



Power Distribution Components



- Air Circuit Breakers
- Moulded Case Circuit Breakers
- Switch Disconnector Fuses
- Switch Disconnectors
- Changeover & Bypass Switches
- HRC Fuse Links, Fuse Bases & Fuse Holders

WiNmaster2

Breaker with intelligence

WiNmaster2 Power Circuit Breakers are a new generation of Air Circuit Breakers having modular construction to offer a truly global product platform meeting IEC, ANSI and UL standards.



Range

630A~4000A

Single frame
for
complete
range

Poles

3P & 4P

Versions

Fixed & Drawout
(Mechanical
& Electrical)

$I_{cs}=I_{cu}=I_{cw}$
(for 1 sec)
at 50kA

CE **RoHS**
Compliant

Intelligent releases

- Micropro2 3.1
- Micropro2 4.1
- Micropro2 7.1



INTELLIGENT RELEASE

Measurement

Trip History

ZSI

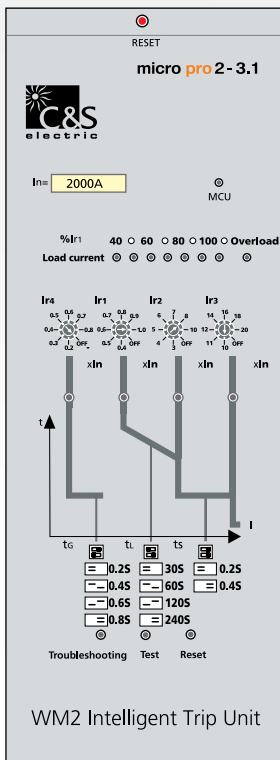
Fault LED retention

Short Circuit Protection

Communication

MicroPro2 3.1

- Overload protection
- Short Circuit current protection
- Earth Fault protection
- INST Fault protection



MicroPro2 4.1

- Overload & Short Circuit protection
- Instantaneous current protection
- Neutral & Ground Fault Protection
- Ampere Meter
- Digital display and fault LED retention in case of power failure

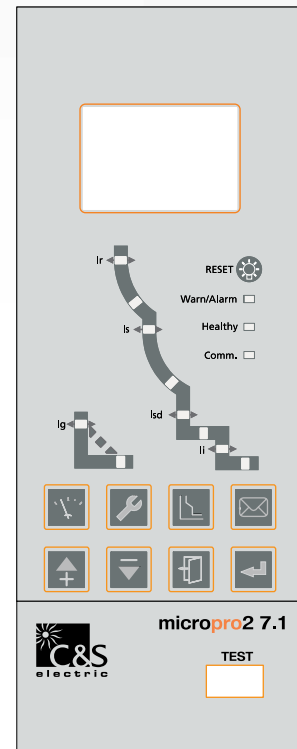


MicroPro2 7.1

- Overload & Short Circuit protection
- Instantaneous current protection
- Neutral & Ground Fault / Leakage Protection
- Various Protection related to voltage, frequency, load and motor
- Zone Selectivity, Measurement of V, I, P, F, KWH, KVArh, Harmonics etc. and also store the maximum value in maximeter

Communication

- Port: RS485
- Protocol: Modbus/Profibus/Devicenet



WiNmaster2 Air Circuit Breaker

Frame-I (630A-2500A)

Frame-II (800A-4000A)

With Intelligent Release Micropro2-3.1

Features:

- LSING Protection
- Digital Display
- Communication through RS 485 Port
- True RMS Sensing
- Current, Voltage, Power Measurement with Maximeter
- Thermal Memory
- Trip History
- Fault Indication
- Zone Selectivity
- Harmonics



Manual Fixed (MF)

- Microprocessor Release
- Auxiliary Switch 6NO+6NC
- Main CTs
- Terminal Type - Horizontal

Electrical Fixed (EF)

- Microprocessor Release
- Auxiliary Switch 6NO+6NC
- Main CTs
- AC/DC Charging Motor
- Closing Coil
- Shunt Trip
- Terminal Type - Horizontal

Manual Drawout (MDO)

- Microprocessor Release
- Auxiliary Switch 6NO+6NC
- Main CTs
- Safety Shutter
- 55 Way auxiliary isolating contacts
- Terminal Type - Horizontal

Electrical Drawout (EDO)

- Microprocessor Release
- Auxiliary Switch 6NO+6NC
- Main CTs
- Safety Shutter
- 55 Way auxiliary isolating contacts
- AC/DC Charging Motor
- Closing Coil
- Shunt Trip
- Terminal Type - Horizontal

Fixed 3 Pole			
Rating (Amps)	Breaking Capacity I _{cu} =I _{cs} =I _{cw} (1sec)		Reference
	Frame-I	Frame-II	
630	50/65kA	-	☒ WX06N3P*A(S)
800	50/65kA	80kA	☒ WX08N3P*A(S)
1000	50/65kA	80kA	☒ WX10N3P*A(S)
1250	50/65kA	80kA	☒ WX12N3P*A(S)
1600	50/65kA	80kA	☒ WX16N3P*A(S)
2000	50/65kA	80kA	☒ WX20N3P*A(S)
2500	50/65kA	80kA	☒ WX25N3P*A(S)
3200	-	80kA	☒ WX32N3P*A(S)
4000	-	80kA	☒ WX40N3P*A(S)
Drawout 3 Pole			
630	50/65kA	-	WX06N3P*A(S)
800	50/65kA	80kA	WX08N3P*A(S)
1000	50/65kA	80kA	WX10N3P*A(S)
1250	50/65kA	80kA	WX12N3P*A(S)
1600	50/65kA	80kA	WX16N3P*A(S)
2000	50/65kA	80kA	WX20N3P*A(S)
2500	50/65kA	80kA	WX25N3P*A(S)
3200	-	80kA	WX32N3P*A(S)
4000	-	80kA	WX40N3P*A(S)
Fixed 3 Pole (with Neutral CT) for Earth fault Protection			
630	50/65kA	-	☒ WX06N3PN*A(S)
800	50/65kA	80kA	☒ WX08N3PN*A(S)
1000	50/65kA	80kA	☒ WX10N3PN*A(S)
1250	50/65kA	80kA	☒ WX12N3PN*A(S)
1600	50/65kA	80kA	☒ WX16N3PN*A(S)
2000	50/65kA	80kA	☒ WX20N3PN*A(S)
2500	50/65kA	80kA	☒ WX25N3PN*A(S)
3200	-	80kA	☒ WX32N3PN*A(S)
4000	-	80kA	☒ WX40N3PN*A(S)

Notes:

- 1) While ordering an ACB, the complete catalogue reference by replacing '*' with ACB type: MF-Manual Fixed, EF-Electrical Fixed, MDO-Manual Drawout, EDO-Electrical Drawout
- 2) In TP ACB, if earth fault facility required
- 3) Other options of terminals are available on request.
- 4) 3200A & 4000A are available on request.

Features:

- LSING Protection
- Digital Display
- Communication through RS 485 Port
- True RMS Sensing
- Current, Voltage, Power Measurement with Maximeter
- Thermal Memory
- Trip History
- Fault Indication
- Zone Selectivity
- Harmonics



Manual Fixed (MF)

- Microprocessor Release
- Auxiliary Switch 6NO+6NC
- Main CTs
- Terminal Type - Horizontal

Electrical Fixed (EF)

- Microprocessor Release
- Auxiliary Switch 6NO+6NC
- Main CTs
- AC/DC Charging Motor
- Closing Coil
- Shunt Trip
- Terminal Type - Horizontal

Manual Drawout (MDO)

- Microprocessor Release
- Auxiliary Switch 6NO+6NC
- Main CTs
- Safety Shutter
- 55 Way auxiliary isolating contacts
- Terminal Type - Horizontal

Electrical Drawout (EDO)

- Microprocessor Release
- Auxiliary Switch 6NO+6NC
- Main CTs
- Safety Shutter
- 55 Way auxiliary isolating contacts
- AC/DC Charging Motor
- Closing Coil
- Shunt Trip
- Terminal Type - Horizontal

With Intelligent Release Micropro2-3.1

Fixed 4 Pole			
Rating (Amps)	Breaking Capacity I _{cu} =I _{cs} =I _{cw} (1sec)		Reference
	Frame-I	Frame-II	
630	50/65kA	-	WX06N4P*A(S)
800	50/65kA	80kA	WX08N4P*A(S)
1000	50/65kA	80kA	WX10N4P*A(S)
1250	50/65kA	80kA	WX12N4P*A(S)
1600	50/65kA	80kA	WX16N4P*A(S)
2000	50/65kA	80kA	WX20N4P*A(S)
2500	50/65kA	80kA	WX25N4P*A(S)
3200	-	80kA	WX32N4P*A(S)
4000	-	80kA	WX40N4P*A(S)
Drawout 4 Pole			
630	50/65kA	-	WX06N4P*A(S)
800	50/65kA	80kA	WX08N4P*A(S)
1000	50/65kA	80kA	WX10N4P*A(S)
1250	50/65kA	80kA	WX12N4P*A(S)
1600	50/65kA	80kA	WX16N4P*A(S)
2000	50/65kA	80kA	WX20N4P*A(S)
2500	50/65kA	80kA	WX25N4P*A(S)
3200	-	80kA	WX32N4P*A(S)
4000	-	80kA	WX40N4P*A(S)
Fixed 4 Pole (with Neutral CT) for Earth fault Protection			
630	50/65kA	-	WX06N3PN*A(S)
800	50/65kA	80kA	WX08N3PN*A(S)
1000	50/65kA	80kA	WX10N3PN*A(S)
1250	50/65kA	80kA	WX12N3PN*A(S)
1600	50/65kA	80kA	WX16N3PN*A(S)
2000	50/65kA	80kA	WX20N3PN*A(S)
2500	50/65kA	80kA	WX25N3PN*A(S)
3200	-	80kA	WX32N3PN*A(S)
4000	-	80kA	WX40N3PN*A(S)

Notes:

- 1) While ordering an ACB, the complete catalogue reference by replacing '*' with ACB type: MF-Manual Fixed, EF-Electrical Fixed, MDO-Manual Drawout, EDO-Electrical Drawout
- 2) In TP ACB, if earth fault facility required
- 3) Other options of terminals are available on request.
- 4) 3200A & 4000A are available on request.

WiNmaster2 Air Circuit Breaker

Main Accessories (Please specify ACB rating & type while placing order)

1. Under Voltage Trip Device		
Sl. No.	Description	Reference
1.1	Without Delay Common for 630A-2500A	WM2-AUH-V-ABC-**
1.2	With Delay Common for 630A-2500A	WM2-AUH-D-ABC-**

2. Continuous rated Shunt Trip and Closing Coil		
Sl. No.	Description	Reference
2.1	Common for 630A-2500A	WM2-AVH-SC-ABC-**
2.2	Common for 630A-2500A	WM2-AVH-CC-ABC-**

**Options for Coil Voltage							
Description	AC Control Voltage			DC Control Voltage			
	110V	220-250V	380-440V	24V	48V	110V	220V
UVT	FA	MA	NA	-	-	FD	MD
SHUNT	FA	MA	NA	BD	ED	FD	MD
Closing Coil	FA	MA	NA	BD	ED	FD	MD

3. Accessories		
Sl. No.	Description	Reference
3.1	Universal Charging Motor - Common for 630A-2500A (for 220VAC/DC)	WM2-AMH-AV-A1-M
3.2	Universal Charging Motor - Common for 630A-2500A (for 415VAC)	WM2-AMH-AU-A1-N
3.3	Universal Charging Motor - Common for 630A-2500A (for 110VAC/DC)	WM2-AMH-AS-A1-F
3.4	LIFTER	LIFTER (580x600)*
		LIFTER-SPL (690x570)*
3.5	Mismatch Prevention Device	WM2-MIP-AB
3.6	Panel Door Lock	WM2-PDL-AB
3.7	Mechanical Interlock Horizontal (Drawout)	WM2-MIL-HD
3.8	Mechanical Interlock Vertical (Drawout)	WM2-MIL-VD
3.9	Mechanical Interlock Horizontal (Fixed)	WM2-MIL-HF
3.10	Mechanical Interlock Vertical (Fixed)	WM2-MIL-VF
3.11	Key Lock (1 Lock + 1 Key)	WM2-AKI-AB
3.12	Key Lock (3 Lock + 2 Key)	WM2-AKI-1-AB
3.13	Key Lock (2 Lock + 1 Key)	WM2-AKI-2-AB
3.14	Mechanical operation counter	WM2-ASC-ABC
3.15	Ready to close contact	WM2-RTC-ABC
* in (mm)		

Air Circuit Breaker AH / AHA

630A~6300A, 3 & 4 Pole

Salient Features

- Only 4 Frame sizes for entire range (630A~6300A)
- Total breaking time less than 30ms (including arcing time of less than 10ms) & closing time of 40ms.
- Slow closing feature to maintain contact gap of all phases.
- Perfect alignment of contact with guiding feature.
- Making current Release (MCR) to rapidly clear faulty circuit without any time delay.

Intelligent Protection Release

Magnetic Trip Device TM

- Direct acting electromagnetic instantaneous trip device with fixed factory setting, settings 3 - 50 kA
- Adjustable overload settings 60% - 100%.
- Provision for remote tripping

MicroPro 3.1

- Overload protection
- Short Circuit Current protection
- Instantaneous Current protection
- Ground Fault protection

MicroPro 4.1

- Overload & Short Circuit protection
- Instantaneous current protection
- Neutral & Ground Fault Protection
- Zone Selective Interlocking
- LCD display and fault LED retention in case of power failure
- Measure true RMS values of current (all three phase)
- In-built Thermal memory
- Fault type, current and time for last trip event

MicroPro 5.1

- Overload & Short Circuit protection
- Instantaneous current protection
- Neutral & Ground Fault Protection
- Zone Selective Interlocking
- LCD display and fault LED retention in case of power failure
- Measure true RMS values of current (all three phase)
- In-built Selective Thermal memory
- Fault type, current and time for last 16 trip events



RoHS
Compliant



Air Circuit Breaker AH / AHA

630A-6300A

(I) ACB with Intelligent Release MicroPro 3.1

Features:

- LSIG Protection
- True RMS Sensing
- Fault Indication

AH / AHA Breaker fitted with standard accessories

Manual Fixed (MF)	Electrical Fixed (EF)	Manual Drawout (MDO)	Electrical Drawout (EDO)
<ul style="list-style-type: none"> - Microprocessor Release - Auxiliary Switch 5a 5b i.e. 5NO+5NC - Main CTs - Terminal Type - Horizontal upto 2500A & Vertical for 3200A-6300A - Rectifier (24V DC supply) 	<ul style="list-style-type: none"> - Microprocessor Release - Auxiliary Switch 5a 5b i.e. 5NO+5NC - Main CTs - AC/DC Charging Motor - Closing Coil - Shunt Trip - Anti-pumping Relay - Micro Switches as required for electrical operation - Terminal Type - Horizontal upto 2500A & Vertical for 3200A-6300A - Rectifier (24V DC supply) 	<ul style="list-style-type: none"> - Microprocessor Release - Auxiliary Switch 7a 7b i.e. 7NO+7NC - Main CTs - Safety Shutter - 36 way Auxiliary Isolating contacts - Terminal Type - Horizontal upto 2500A & Vertical for 3200A-6300A - Rectifier (24V DC supply) 	<ul style="list-style-type: none"> - Microprocessor Release - Auxiliary Switch 7a 7b i.e. 7NO+7NC - Main CTs - Safety Shutter - 36 way Auxiliary Isolating contacts - AC/DC Charging Motor - Closing Coil - Shunt Trip - Anti-pumping Relay - Micro Switches as required for electrical operation - Terminal Type - Horizontal upto 2500A & Vertical for 3200A-6300A - Rectifier (24V DC supply)



LT Air Circuit Breaker fitted with Intelligent Release MicroPro 3.1

Fixed 3 Pole			Fixed 4 Pole		
Rating (Amps)	Breaking Capacity Icu=Ics=Icw (1sec)	Reference	Rating (Amps)	Breaking Capacity Icu=Ics=Icw (1sec)	Reference
630	50kA	☒AHA06N3P*MP3.1(S)	630	50kA	☒AHA06N4P*MP3.1(S)
800	50kA	☒AHA08N3P*MP3.1(S)	800	50kA	☒AHA08N4P*MP3.1(S)
1000	50kA	☒AHA10N3P*MP3.1(S)	1000	50kA	☒AHA10N4P*MP3.1(S)
1000	50kA	☒AH10DCSMP3.1*(S)	1000	50kA	☒AH10D4CSMP3.1*(S)
1250	50kA	☒AHA12N3P*MP3.1(S)	1250	50kA	☒AHA12N4P*MP3.1(S)
1250	50kA	☒AH12DCSMP3.1*(S)	1250	50kA	☒AH12D4CSMP3.1*(S)
1600	50kA	☒AHA16N3P*MP3.1(S)	1600	50kA	☒AHA16N4P*MP3.1(S)
1600	50kA	☒AH16DCSMP3.1*(S)	1600	50kA	☒AH16D4CSMP3.1*(S)
2000	50kA	☒AHA20N3P*MP3.1(S)	2000	50kA	☒AHA20N4P*MP3.1(S)
2000	50kA	☒AH20DCSMP3.1*(S)	2000	50kA	☒AH20D4CSMP3.1*(S)
2500	50kA	☒AHA25N3P*MP3.1(S)	2500	50kA	☒AHA25N4P*MP3.1(S)
2500	50kA	☒AH25DCSMP3.1*(S)	2500	50kA	☒AH25D4CSMP3.1*(S)
2000	65kA	☒AHA20S3P*MP3.1(S)	2000	65kA	☒AHA20S4P*MP3.1(S)
3200	65kA	☒AH30DCSMP3.1*(S)	3200	65kA	☒AH30D4CSMP3.1*(S)
4000	85kA	☒AH40DCSMP3.1*(S)	4000	85kA	☒AH40D4CSMP3.1*(S)

Drawout 3 Pole			Drawout 4 Pole		
Rating (Amps)	Breaking Capacity Icu=Ics=Icw (1sec)	Reference	Rating (Amps)	Breaking Capacity Icu=Ics=Icw (1sec)	Reference
630	50kA	AHA06N3P*MP3.1(S)	630	50kA	AHA06N4P*MP3.1(S)
800	50kA	AHA08N3P*MP3.1(S)	800	50kA	AHA08N4P*MP3.1(S)
1000	50kA	AHA10N3P*MP3.1(S)	1000	50kA	AHA10N4P*MP3.1(S)
1000	50kA	AH10DCSMP3.1*(S)	1000	50kA	AH10D4CSMP3.1*(S)
1250	50kA	AHA12N3P*MP3.1(S)	1250	50kA	AHA12N4P*MP3.1(S)
1250	50kA	AH12DCSMP3.1*(S)	1250	50kA	AH12D4CSMP3.1*(S)
1600	50kA	AHA16N3P*MP3.1(S)	1600	50kA	AHA16N4P*MP3.1(S)
1600	50kA	AH16DCSMP3.1*(S)	1600	50kA	AH16D4CSMP3.1*(S)
2000	50kA	AHA20N3P*MP3.1(S)	2000	50kA	AHA20N4P*MP3.1(S)
2000	50kA	AH20DCSMP3.1*(S)	2000	50kA	AH20D4CSMP3.1*(S)
2500	50kA	AHA25N3P*MP3.1(S)	2500	50kA	AHA25N4P*MP3.1(S)
2500	50kA	AH25DCSMP3.1*(S)	2500	50kA	AH25D4CSMP3.1*(S)
2000	65kA	☒AHA20S3P*MP3.1(S)	2000	65kA	AHA20S4P*MP3.1(S)
3200	65kA	☒AHA30S3P*MP3.1(S)	3200	65kA	☒AHA30S4P*MP3.1(S)
3200	65kA	☒AH30DCSMP3.1*(S)	3200	65kA	☒AH30D4CSMP3.1*(S)
4000	65kA	☒AHA40S3P*MP3.1(S)	4000	65kA	☒AHA40S4P*MP3.1(S)
4000	85kA	☒AH40DCSMP3.1*(S)	4000	85kA	☒AH40D4CSMP3.1*(S)
5000	85kA	☒AH50CCSMP3.1*(S)	5000	85kA	☒AH50C4CSMP3.1*(S)
6300	100kA	☒AH60CCSMP3.1*(S)	6300	100kA	☒AH60C4CSMP3.1*(S)

Notes:

- 1) In TP ACB if Earth Fault facility is required.
- 2) While ordering an ACB, complete the catalogue reference by replacing '*' with ACB type: MF-Manual Fixed, EF-Electrical Fixed, MD- Manual Drawout, ED-Electrical Drawout
- 3) Drawout type ACB with vertical terminal (factory fitted only) is available in ratings 8D-16D/06N-20S (AHA)
- 4) Fixed type ACB with vertical terminal adapter option is available in rating 8D-16D/06N-20S (AHA).

Air Circuit Breaker AH / AHA

630A-6300A

(II) ACB with Intelligent Release MicroPro 4.1

Features:

- LSING Protection
- LCD Display
- Current Measurement
- True RMS Sensing
- Thermal Memory
- Communication through RS 485 Port
- Zone Selectivity
- Fault Indication

AH / AHA Breaker fitted with standard accessories

Manual Fixed (MF)	Electrical Fixed (EF)	Manual Drawout (MDO)	Electrical Drawout (EDO)
<ul style="list-style-type: none"> - Microprocessor Release - Auxiliary Switch 5a 5b i.e 5NO+5NC - Main CTs - Terminal Type - Horizontal upto 2500A & Vertical for 3200A-6300A - Power Supply Module 	<ul style="list-style-type: none"> - Microprocessor Release - Auxiliary Switch 5a5b i.e. 5NO + 5NC - Main CTs - AC/DC Charging Motor - Closing Coil - Shunt Trip - Anti-pumping Relay - Micro Switches as required for electrical operation - Terminal Type - Horizontal upto 2500A & Vertical for 3200A-6300A - Power Supply Module 	<ul style="list-style-type: none"> - Microprocessor Release - Auxiliary Switch 7a 7b i.e. 7NO + 7NC - Main CTs - Safety Shutter - 36 way Auxiliary Isolating contacts - Terminal Type - Horizontal upto 2500A & Vertical for 3200A-6300A - Power Supply Module 	<ul style="list-style-type: none"> - Microprocessor Release - Auxiliary Switch 7a 7b i.e. 7 NO + 7 NC - Main CTs - Safety Shutter - 36 way Auxiliary Isolating contacts - AC/DC Charging Motor - Closing Coil - Shunt Trip - Anti-pumping Relay - Micro Switches as required for electrical operation - Terminal Type - Horizontal upto 2500A & Vertical for 3200A-6300A - Power Supply Module

LT Air Circuit Breaker fitted with Intelligent Release MicroPro 4.1



Fixed 3 Pole			Fixed 4 Pole		
Rating (Amps)	Breaking Capacity Icu=Ics=Icw (1sec)	Reference	Rating (Amps)	Breaking Capacity Icu=Ics=Icw (1sec)	Reference
630	50kA	☒ AHA06N3P*MP4.1(S)	630	50kA	☒ AHA06N4P*MP4.1(S)
800	50kA	☒ AHA08N3P*MP4.1(S)	800	50kA	☒ AHA08N4P*MP4.1(S)
1000	50kA	☒ AHA10N3P*MP4.1(S)	1000	50kA	☒ AHA10N4P*MP4.1(S)
1000	50kA	☒ AH10DCSMP4.1*(S)	1000	50kA	☒ AH10D4CSMP4.1*(S)
1250	50kA	☒ AHA12N3P*MP4.1(S)	1250	50kA	☒ AHA12N4P*MP4.1(S)
1250	50kA	☒ AH12DCSMP4.1*(S)	1250	50kA	☒ AH12D4CSMP4.1*(S)
1600	50kA	☒ AHA16N3P*MP4.1(S)	1600	50kA	☒ AHA16N4P*MP4.1(S)
1600	50kA	☒ AH16DCSMP4.1*(S)	1600	50kA	☒ AH16D4CSMP4.1*(S)
2000	50kA	☒ AHA20N3P*MP4.1(S)	2000	50kA	☒ AHA20N4P*MP4.1(S)
2000	50kA	☒ AH20DCSMP4.1*(S)	2000	50kA	☒ AH20D4CSMP4.1*(S)
2500	50kA	☒ AHA25N3P*MP4.1(S)	2500	50kA	☒ AHA25N4P*MP4.1(S)
2500	50kA	☒ AH25DCSMP4.1*(S)	2500	50kA	☒ AH25D4CSMP4.1*(S)
2000	65kA	☒ AHA20S3P*MP4.1(S)	2000	65kA	☒ AHA20S4P*MP4.1(S)
3200	65kA	☒ AH30DCSMP4.1*(S)	3200	65kA	☒ AH30D4CSMP4.1*(S)
4000	85kA	☒ AH40DCSMP4.1*(S)	4000	85kA	☒ AH40D4CSMP4.1*(S)

Drawout 3 Pole			Drawout 4 Pole		
Rating (Amps)	Breaking Capacity Icu=Ics=Icw (1sec)	Reference	Rating (Amps)	Breaking Capacity Icu=Ics=Icw (1sec)	Reference
630	50kA	AHA06N3P*MP4.1(S)	630	50kA	AHA06N4P*MP4.1(S)
800	50kA	AHA08N3P*MP4.1(S)	800	50kA	AHA08N4P*MP4.1(S)
1000	50kA	AHA10N3P*MP4.1(S)	1000	50kA	AHA10N4P*MP4.1(S)
1000	50kA	AH10DCSMP4.1*(S)	1000	50kA	AH10D4CSMP4.1*(S)
1250	50kA	AHA12N3P*MP4.1(S)	1250	50kA	AHA12N4P*MP4.1(S)
1250	50kA	AH12DCSMP4.1*(S)	1250	50kA	AH12D4CSMP4.1*(S)
1600	50kA	AHA16N3P*MP4.1(S)	1600	50kA	AHA16N4P*MP4.1(S)
1600	50kA	AH16DCSMP4.1*(S)	1600	50kA	AH16D4CSMP4.1*(S)
2000	50kA	AHA20N3P*MP4.1(S)	2000	50kA	AHA20N4P*MP4.1(S)
2000	50kA	AH20DCSMP4.1*(S)	2000	50kA	AH20D4CSMP4.1*(S)
2500	50kA	AHA25N3P*MP4.1(S)	2500	50kA	AHA25N4P*MP4.1(S)
2500	50kA	AH25DCSMP4.1*(S)	2500	50kA	AH25D4CSMP4.1*(S)
2000	65kA	AHA20S3P*MP4.1(S)	2000	65kA	AHA20S4P*MP4.1(S)
3200	65kA	AHA30S3P*MP4.1(S)	3200	65kA	AHA30S4P*MP4.1(S)
3200	65kA	AH30DCSMP4.1*(S)	3200	65kA	AH30D4CSMP4.1*(S)
4000	65kA	☒ AHA40S3P*MP4.1(S)	4000	65kA	☒ AHA40S4P*MP4.1(S)
4000	85kA	☒ AH40DCSMP4.1*(S)	4000	85kA	☒ AH40D4CSMP4.1*(S)
5000	85kA	☒ AH50CCSMP4.1*(S)	5000	85kA	☒ AH50C4CSMP4.1*(S)
6300	100kA	☒ AH60CCSMP4.1*(S)	6300	100kA	☒ AH60C4CSMP4.1*(S)

ACB with high end release w.r.t MicroPro 4.1 ACB		
Release	Description	
Micropro 5.1	LSING, Selectable Thermal Memory, 16 Fault Tripping History, ZSI, 2 way Communication RS485 Port, Current Metering	Add

Notes:

- 1) In TP ACB if Earth Fault facility is required.
- 2) While ordering an ACB, complete the catalogue reference by replacing '*' with ACB type: **MF**-Manual Fixed, **EF**-Electrical Fixed, **MD**-Manual Drawout, **ED**-Electrical Drawout
- 3) Drawout type ACB with vertical terminal (factory fitted only) is available in ratings 8D-16D/06N-20S (AHA)

Air Circuit Breaker AH / AHA

630A-6300A

(III) ACB with Thermal Magnetic Release

AH / AHA Breaker fitted with standard accessories

Manual Fixed (MF)	Electrical Fixed (EF)	Manual Drawout (MDO)	Electrical Drawout (EDO)
<ul style="list-style-type: none"> - Thermal Magnetic Release - Auxiliary Switch 5a 5b i.e 5NO+5NC - Main CTs - Shunt Trip - Terminal Type - Horizontal upto 2500A & Vertical for 3200A-6300A 	<ul style="list-style-type: none"> - Thermal Magnetic Release - Auxiliary Switch 5a 5b i.e 5NO+5NC - Main CTs - AC/DC Charging Motor - Closing Coil - Anti-pumping Relay - Micro Switches as required for electrical operation - Terminal Type - Horizontal upto 2500A & Vertical for 3200A-6300A 	<ul style="list-style-type: none"> - Thermal Magnetic Release - Auxiliary Switch 5a 5b i.e 5NO+5NC - Main CTs - Safety Shutter - 24 way Auxiliary Isolating contacts - Terminal Type - Horizontal upto 2500A & Vertical for 3200A-6300A 	<ul style="list-style-type: none"> - Thermal Magnetic Release - Auxiliary Switch 7a 7b i.e 7NO+7NC - Main CTs - Safety Shutter - 36 way Auxiliary Isolating contacts - AC/DC Charging Motor - Closing Coil - Shunt Trip - Anti-pumping Relay - Micro Switches as required for operation - Terminal Type - Horizontal upto 2500A & Vertical for 3200A-6300A

A

LT Air Circuit Breaker fitted with Thermal Magnetic Release

Fixed 3 Pole		
Rating (Amps)	Breaking Capacity I _{cu} =I _{cs} =I _{cw} (1sec)	Reference
630	50kA	AHA06N3P*TM(S)
800	50kA	AHA08N3P*TM(S)
1000	50kA	AHA10N3P*TM(S)
1000	50kA	AH10DCSTM*(S)
1250	50kA	AHA12N3P*TM(S)
1250	50kA	AH12DCSTM*(S)
1600	50kA	AHA16N3P*TM(S)
1600	50kA	AH16DCSTM*(S)
2000	50kA	AHA20N3P*TM(S)
2000	50kA	AH20DCSTM*(S)
2500	50kA	AHA25N3P*TM(S)
2500	50kA	AH25DCSTM*(S)
2000	65kA	AHA20S3P*TM(S)
3200	65kA	AH30DCSTM*(S)
4000	85kA	AH40DCSTM*(S)

Fixed 4 Pole		
Rating (Amps)	Breaking Capacity I _{cu} =I _{cs} =I _{cw} (1sec)	Reference
630	50kA	AHA06N4P*TM(S)
800	50kA	AHA08N4P*TM(S)
1000	50kA	AHA10N4P*TM(S)
1000	50kA	AH10D4CSTM*(S)
1250	50kA	AHA12N4P*TM(S)
1250	50kA	AH12D4CSTM*(S)
1600	50kA	AHA16N4P*TM(S)
1600	50kA	AH16D4CSTM*(S)
2000	50kA	AHA20N4P*TM(S)
2000	50kA	AH20D4CSTM*(S)
2500	50kA	AHA25N4P*TM(S)
2500	50kA	AH25D4CSTM*(S)
2000	65kA	AHA20S4P*TM(S)
3200	65kA	AH30D4CSTM*(S)
4000	85kA	AH40D4CSTM*(S)

Drawout 3 Pole		
Rating (Amps)	Breaking Capacity I _{cu} =I _{cs} =I _{cw} (1sec)	Reference
630	50kA	AHA06N3P*TM(S)
800	50kA	AHA08N3P*TM(S)
1000	50kA	AHA10N3P*TM(S)
1000	50kA	AH10DCSTM*(S)
1250	50kA	AHA12N3P*TM(S)
1250	50kA	AH12DCSTM*(S)
1600	50kA	AHA16N3P*TM(S)
1600	50kA	AH16DCSTM*(S)
2000	50kA	AHA20N3P*TM(S)
2000	50kA	AH20DCSTM*(S)
2500	50kA	AHA25N3P*TM(S)
2500	50kA	AH25DCSTM*(S)
2000	65kA	AHA20S3P*TM(S)
3200	65kA	AHA30S3P*TM(S)
3200	65kA	AH30DCSTM*(S)
4000	65kA	AHA40S3P*TM(S)
4000	85kA	AH40DCSTM*(S)
5000	85kA	AH50CCSTM*(S)
6300	100kA	AH60CCSTM*(S)

Drawout 4 Pole		
Rating (Amps)	Breaking Capacity I _{cu} =I _{cs} =I _{cw} (1sec)	Reference
630	50kA	AHA06N4P*TM(S)
800	50kA	AHA08N4P*TM(S)
1000	50kA	AHA10N4P*TM(S)
1000	50kA	AH10D4CSTM*(S)
1250	50kA	AHA12N4P*TM(S)
1250	50kA	AH12D4CSTM*(S)
1600	50kA	AHA16N4P*TM(S)
1600	50kA	AH16D4CSTM*(S)
2000	50kA	AHA20N4P*TM(S)
2000	50kA	AH20D4CSTM*(S)
2500	50kA	AHA25N4P*TM(S)
2500	50kA	AH25D4CSTM*(S)
2000	65kA	AHA20S4P*TM(S)
3200	65kA	AHA30S4P*TM(S)
3200	65kA	AH30D4CSTM*(S)
4000	65kA	AHA40S4P*TM(S)
4000	85kA	AH40D4CSTM*(S)
5000	85kA	AH50C4CSTM*(S)
6300	100kA	AH60C4CSTM*(S)

Notes:

- 1) While ordering an ACB without Over Current Release, Shunt trip & Main CTs, Shunt trip will be standard in electrical ACB without release as well.
- 2) While ordering an ACB, complete the catalogue reference by replacing '*' with ACB type: **MF**-Manual Fixed, **EF**-Electrical Fixed, **MD**-Manual Drawout, **ED**-Electrical Drawout
- 3) Drawout type ACB with vertical terminal (factory fitted only) is available in ratings 6D-16D/08N-20S(AHA)

Air Circuit Breaker (B-Type)

630A-2000A

- Auxiliary Switch 1NO
- Main CTs
- Shunt Trip
- Auxiliary Switch



Manual Fixed, 3 Pole with Thermal Magnetic Release			Manual Fixed, 3 Pole with Intelligent Release MicroPro 3.1		
Rating (Amps)	Breaking Capacity Icu=Ics=Icw (1sec)	Reference	Rating (Amps)	Breaking Capacity Icu=Ics=Icw (1sec)	Reference
630	50kA	AH06BCSTM*(S)	630	50kA	AH06BCSMP3.1*(S)
800	50kA	AH08BCSTM*(S)	800	50kA	AH08BCSMP3.1*(S)
1000	50kA	AH10BCSTM*(S)	1000	50kA	AH10BCSMP3.1*(S)
1250	50kA	AH12BCSTM*(S)	1250	50kA	AH12BCSMP3.1*(S)
1600	50kA	AH16BCSTM*(S)	1600	50kA	AH16BCSMP3.1*(S)
2000	50kA	AH20BCSTM*(S)	2000	50kA	AH20BCSMP3.1*(S)

Main Accessories-AH / AHA (Please specify ACB rating & type while placing order)

Sl. No.	Description	Reference
1.0	Earth Fault Relay for 6D-60C / 06N-40S	CS-EFR

2. Earth Fault Relay (for ACB with thermal release)

Sl. No.	EFR with NCT and Wiring Bunch for 3Pole Breaker		EFR with Wiring Bunch for 4Pole Breaker
	Description	Reference	Reference
2.1	06D/06N	CS-EFR-06D3P	CS-EFR-06D4P
2.2	08D/08N	CS-EFR-08D3P	CS-EFR-08D4P
2.3	10D/10N	CS-EFR-10D3P	CS-EFR-10D4P
2.4	12D/12N	CS-EFR-12D3P	CS-EFR-12D4P
2.5	16D/16N	CS-EFR-16D3P	CS-EFR-16D4P
2.6	20N/20S	CS-EFR-20N3P	CS-EFR-20N4P
2.7	20D	CS-EFR-20D3P	CS-EFR-20D4P
2.8	25D/25N	CS-EFR-25D3P	CS-EFR-25D4P
2.9	30S	CS-EFR-30S3P	CS-EFR-30S4P
2.10	30D	CS-EFR-30D3P	CS-EFR-30D4P
2.11	40S	CS-EFR-40S3P	CS-EFR-40S4P
2.12	40D	CS-EFR-40D3P	CS-EFR-40D4P
2.13	50C	CS-EFR-50C3P	CS-EFR-50C4P
2.14	60C	CS-EFR-60C3P	CS-EFR-60C4P



3. FRP Safety Shutter Assembly

Sl. No.	Description	Reference
3.1	For 6D-16D / 06N-16N, 3 Pole	ASH-1
	For 6D-16D / 06N-16N, 4 Pole	ASH-1 (4P)
3.2	For 20N / 20S, 3 Pole	ASH-1-20N/S (3P)
	For 20N / 20S, 4 Pole	ASH-1-20N/S (4P)
3.3	For 20D-25D/30S, 3 Pole	ASH-2
	For 20D-25D/30S, 4 Pole	ASH-2 (4P)
3.4	For 30D/40S, 3 Pole	ASH-3
	For 30D/40S, 4 Pole	ASH-3 (4P)
3.5	For 40D, 3 Pole	ASH-4
	For 40D, 4 Pole	ASH-4 (4P)
3.6	For 50C / 60C, 3 Pole	ASH-5
	For 50C / 60C, 4 Pole	ASH-5 (4P)

Main Accessories For "AH/AHA" ACB

(Please specify ACB rating & type while placing orders)

4.1 Single Phase Resin Cast CTs for "AH/AHA" ACB for MicroPro 3.1, 4.1 & 5.1 Release -1CT per pole is required. In TP ACB, one additional CT will be required if, Ground Fault Protection is selected.

Sl. No.	Type	Description	Phase CT	Neutral CT
4.1.1	-	100/0.2A	CS-WMCT-014	CS-ATBWM-010
4.1.2	-	200/0.2A	CS-WMCT-02	CS-ATBWM-02
4.1.3	-	250/0.2A	CS-WMCT-024	CS-ATBWM-024
4.1.4	-	300/0.2A	CS-WMCT-034	CS-ATBWM-030
4.1.5	-	400/0.2A	CS-WMCT-044	CS-ATBWM-040
4.1.6	6D / 06N	630/0.2A	CS-WMCT-064	CS-ATBWM-060
4.1.7	8D/08N	800/0.2A	CS-WMCT-084	CS-ATBWM-080
4.1.8	10D/10N	1000/0.2A	CS-WMCT-104	CS-ATBWM-110
4.1.9	12D / 12N	1250/0.2A	CS-WMCT-124	CS-ATBWM-120
4.1.10	16D / 16N	1600/0.2A	CS-WMCT-164	CS-ATBWM-160
4.1.11	20N/20S	2000/0.2A	CS-WMCT-220	CS-ATBWM-220
4.1.12	20D	2000/0.2A	CS-ATBWM-220	CS-ATBWM-220
4.1.13	25D / 25N	2500/0.2A	CS-ATBWM-225	CS-ATBWM-225
4.1.14	30S	3200/0.2A	CS-ATBWM-2532	CS-ATBWM-332
4.1.15	30D	3200/0.2A	CS-ATBWM-332	CS-ATBWM-332
4.1.16	40S / 40D	4000/0.2A	CS-ATBWM-440	CS-ATBWM-440
4.1.17	50C	5000/0.2A	CS-ATBWM-550	CS-ATBWM-554
4.1.18	60C	6300/0.2A	CS-ATBWM-660	CS-ATBWM-664



4.2 Single Phase Resin Cast CTs for "AH/AHA" ACB for Thermal release-1 CT per pole is required. In TP ACB, one additional CT will be required if, Ground Fault Protection is selected.

Sl. No.	Type	Description	Phase CT	Neutral CT
4.2.1		100/5A	CS-ATB-014	CS-ATB-010
4.2.2		200/5A	CS-ATB-020	CS-ATB-020N
4.2.2	-	250/5A	CS-ATB-024	CS-ATB-020
4.2.4		300/5A	CS-ATB-034	CS-ATB-030
4.2.5	-	400/5A	CS-ATB-044	CS-ATB-040
4.2.6	6D / 06N	630/5A	CS-ATB-064	CS-ATB-060
4.2.7	8D/08N	800/5A	CS-ATB-084	CS-ATB-080
4.2.8	10D/10N	1000/5A	CS-ATB-104	CS-ATB-110
4.2.9	12D / 12N	1250/5A	CS-ATB-134	CS-ATB-120
4.2.10	16D / 16N	1600/5A	CS-ATB-164	CS-ATB-160
4.2.11	20N/20S	2000/5A	CS-ATB-220	CS-ATB-220
4.2.12	20D	2000/5A	CS-ATB-220	CS-ATB-220
4.2.13	25D / 25N	2500/5A	CS-ATB-225	CS-ATB-225
4.2.14	30S	3200/5A	CS-ATB-2532	CS-ATB-332
4.2.15	30D	3200/5A	CS-ATB-332	CS-ATB-332
4.2.16	40S / 40D	4000/5A	CS-ATB-440	CS-ATB-440
4.2.17	50C	5000/5A	CS-ATB-554	CS-ATB-550
4.2.18	60C	5000/5A	CS-ATB-664	CS-ATB-660



5. Auxiliary Isolating Contact Assembly

Sl. No.	Description	Reference
5.1	24 way 6D-16D/06N-20S, 3P 6D-16D/06N-20S, 4P 20D-25D/25N-30S,3P 20D-25D/25N-30S, 4P 30D-40D/40S, 3P 30D-40D/40S, 4P 50C-60C, 3P 50C-60C, 4P	CS-AIH-2-116 CS-AIH-2-116 (4P) CS-AIH-2-220 CS-AIH-2-220 (4P) CS-AIH-2-320 CS-AIH-2-320 (4P) CS-AIH-2-440 CS-AIH-2-440 (4P)
5.2	36 way 6D-16D/06N-20S, 3P 6D-16D/06N-20S, 4P 20D-25D/25N-30S,3P 20D-25D/25N-30S, 4P 30D-40D/40S, 3P 30D-40D/40S, 4P 50C-60C, 3P 50C-60C, 4P	CS-AIH-3-116 CS-AIH-3-116 (4P) CS-AIH-3-220 CS-AIH-3-220 (4P) CS-AIH-3-320 CS-AIH-3-320 (4P) CS-AIH-3-440 CS-AIH-3-440 (4P)

A



Main Accessories For "AH/AHA" ACB

(Please specify ACB rating & type while placing orders)

6. Auxiliary Switch			
Sl. No.	Description		Reference
6.1	5 way (3NO+2NC)	6D-16D/06N-20S	CS-AXH-3A2B-116
		20D-40D/25N-40S	CS-AXH-3A2B-220
6.2	10 way (5NO+5NC)	6D-16D/08N-20S	CS-AXH-5A5B-116
		20D-40D/25N-40S / 50C-60C	CS-AXH-5A5B-220
6.3	14 way (7NO+7NC)	6D-16D/06N-20S	CS-AXH-7A7B-116
		20D-40D/25N-40S / 50C-60C	CS-AXH-7A7B-220



7. UVT Device		
Sl. No.	Description	Reference
7.1	Compact UVT Coil 6D-16D/06N-20S	CS-AUH-V-A-**
7.2	20D-40D/25N-40S / 50C-60C	CS-AUH-V-B-**



8. Shunt Trip and Closing Coil		
Sl. No.	Description	Reference
8.1	Shunt Trip 6D-16D/06N-20S	CS-AVH-S-116-**
	20D-40D/25N-40S/50C-60C	CS-AVH-S-220-**
8.2	Closing Coil 6D-16D/06N-20S	CS-AVH-C-116-**
	20D-40D/25N-40S/ 50C-60C	CS-AVH-C-220-**

**Please specify voltage while ordering

**Options for Coils Voltage							
Description	AC Control Voltage			DC Control Voltage			
	100~130V	220~250V	380~440V	24V	48V	100~130V	220~250V
UVT	FA	MA	NA	-	-	FD	MD
SHUNT	FA	MA	NA	BD	ED	FD	MD
Closing Coil	FA	MA	NA	BD	ED	FD	MD



Sl. No.	Description	Suitable for ACB frame size /rating	
		6D-16D/06N-20S Reference	20D-40D/25S-40S /50C-60C Reference
9	OCR (Fault) Alarm Switch (for fault indication in ACB with MP & TM release)	ALA-1	ALA-2
10	Trip Indication Switch (For both manual and Fault indication in ACB)	TIS -1	TIS-2
11	Spring Charged Indication Switch	SCIS-M	SCIS-M2
12	Position Indication Switch (Right side)	ALB-4P-1	ALB-IP-2
13	Position Indication Switch (Left side)	ALB-FR-1-L	ALB-FR-2-L
14	Mechanical operation counter	ASC-1	ASC-2
15	Key Lock (One lock + One key)	AK1-116D	AKI-2D
16	Castle Key Lock-3 Pole	CKI-116 (3P)	CKI-220 (3P)
	Castle Key Lock-4 Pole	CKI-116 (4P)	CKI-220 (4P)
17	Key Interlock (Consisting of 3-Key Locks with 2 Keys (same No.) fitted on 3 ACBs)	AKI-1-1	AKI-1-2
18	Key Interlock (Consisting of 2-Key Locks with 1 Key (same No.) fitted on 2 ACBs)	AKI-2-1	AKI-2-2
19	Short Circuit Contact for Shunting Auxiliary Isolating Contacts when ACB withdrawn	SCC	SCC
20	Rectifier Unit input 240V AC / output 24V DC, used for Fault LED Retention	ARO-1BMA	ARO-1BMA
21	Mal Insertion Preventor	MIP-NPCIL	MPI-2-NPCL

Spares For "AH / AHA" ACB

(Please specify ACB rating & type while placing order for spares)

Sl. No.	Description	Reference			
22	Communication Module for Micropro 4.1 & 5.1 Release	CSPSCM-MICROPRO			
23	Power Supply Module	CSPSM-MICROPRO			
24	Battery Module for MicroPro 4.1 & 5.1 Release	CS-MPBU4.1.1			
Sl. No.	Description	Suitable for ACB frame size / rating			
		6D-16D/ 08N-20S (AHA) Reference		20D-25D / 25N-30S Reference	
		3 Pole	4 Pole		
25	Mechanical Interlock (Fixed Vertical)	MIL-16D3P-VF	MIL-16D4P-VF	MIL-20D3P-VF/4P	MIL-20D4P-VF
26	Mechanical Interlock (Fixed Horizontal)	MIL-16D3P-HF	MIL-16D4P-HF	MIL-20D3P-HF/4P	MIL-20D4P-HF
27	Mechanical Interlock (D/o Vertical)	MIL-16D4P-VDO	MIL-16D3P-VDO	MIL-20D3P-VDO/4P	MIL-20D4P-VDO
28	Mechanical Interlock (D/o Horizontal)	MIL-16D3P-HDO	MIL-16D4P-HDO	MIL-20D3P-HDO/4P	MIL-20D4P-HDO

Sl. No.	For Air Circuit Breaker	Reference
29	Lifter (for all sizes of ACBs)	<input checked="" type="checkbox"/> LIFTER (580x600)*
		<input checked="" type="checkbox"/> LIFTER-SPL (690x570)*
30	Door Interlock	
30.1	Door Interlock 6D-16D / 06N-20S (Right side)	DOOR-INT-116
30.2	Door Interlock 6D-16D / 06N-20S (Left side)	DOOR-INT-116 (LH)
31	Door Interlock	
31.1	Door Interlock (20D-40D) / 25N-40S (Right side)	DOOR-INT-220
31.2	Door Interlock (20D-40D) / 25N-40S (Left side)	DOOR-INT-220 (LH)

Sl. No. 26, 27 & 28, 30 & 31 will be supplied only factory fitted. These can not be fitted at site thus always order with ACB only. * in (mm)

32. Vertical Terminal Adapter for AH/AHA Fixed type ACB			
Sl. No.	Description	Reference	Qty. Required Per Pole*
32.1	06N-10N	<input checked="" type="checkbox"/> CUADPTR-VC(6D-8D)	1
32.2	10D-12D & 12N	<input checked="" type="checkbox"/> CUADPTR-VC(10D-12D)	1
32.3	16D & 16N-20S	<input checked="" type="checkbox"/> CUADPTR-VC(16D)	1
32.4	20D-25D & 25N	<input checked="" type="checkbox"/> CUADPTR-VC(20D-25D)	1

33. Drawout Mould Base (Cradle Side)		
For ACB Rating	Reference	Qty. Required Per Pole*
6D-16D/08N-20S (AHA)	<input checked="" type="checkbox"/> DRMOULD-20S	2
20D	<input checked="" type="checkbox"/> DRMOULD-20D	2
25D/30S (AHA)	<input checked="" type="checkbox"/> DRMOULD-25D	2
30D/40S (AHA)	<input checked="" type="checkbox"/> DRMOULD-30D	1
40D	<input checked="" type="checkbox"/> DRMOULD-40D	1
50C-60C	<input checked="" type="checkbox"/> DRMOULD-60C	1

34. Arcing Contacts (Set of 1 No. Fixed 1 No. Moving)		
For ACB Rating	Reference	Qty. Required Per Pole*
6D-8D / 06N-10N	CS-ARCCONT-08D	1
10D-12D / 12N	CS-ARCCONT-12D	1
16D / 16N	CS-ARCCONT-16D	1
20N (Fixed ACB)	CS-ARCCONT-20N	1
20N / 20S (Drawout ACB)	CS-ARCCONT-20S	1
20D	CS-ARCCONT-20D	1
25D / 25N-30S	CS-ARCCONT-25D	1
30D/40S	CS-ARCCONT-30D	1
40D	CS-ARCCONT-40D	1
50C	CS-ARCCONT-50C	1
60C	CS-ARCCONT-60C	1

Note: *M - Moving, F - Fixed

Spares For "AH/AHA" ACB

(Please specify ACB rating & type while placing order for spares)

35. Main Isolating Contacts (Jaw Contacts)		
For ACB Rating	Reference	Qty. Required Per Pole
06N-08N / 10N	CS-MIC-08D(50k)	2
10D-12D / 12N	CS-MIC-12D	2
16D / 16N	CS-MIC-16D	2
20N / 20S	CS-MIC-20S	2
20D	CS-MIC-20D	2
25D / 25N-30S	CS-MIC-25D	2
30D / 40S	CS-MIC-30D	2
40D	CS-MIC-40D	2
50C	CS-MIC-50C	2
60C	CS-MIC-60C	2

36. Main Fixed Contacts (Upper Terminals)		
For ACB Rating	Reference	Qty. Required Per Pole*
06N-10N	FIXCONT-08N	1
10D-12D / 12N	FIXCONT-10D-12D	1
16D / 16N	FIXCONT-16D	1
20N(AHA)-Fixed type ACB	FIXCONT-20N	1
20N(AHA)-/20S Drawout ACB	FIXCONT-20S	1
20D	FIXCONT-20D	1
25D / 25N-30S	FIXCONT-25D	1
30D/40S	FIXCONT-30D	1
40D	FIXCONT-40D	1
50C	FIXCONT-50C	1
60C	FIXCONT-60C	1

37. Lower Terminals with fitting plates		
For ACB Rating	Reference	Qty. Required Per Pole*
6D-8D / 06N-10N (AHA)	LWR-TRNL-8B-8D	1
10D-12D / 12N (AHA)	LWR-TRNL-12B-12D	1
16D / 16N(AHA)	LWR-TRNL-16B-16D	1
20N(AHA) (Fixed ACB)	LWR-TRNL-20N	1
20N(AHA) /20S(AHA) (Drawout ACB)	LWR-TRNL-20S	1
20D	LWR-TRNL-20C-20D	1
25D / 25N-30S (AHA)	LWR-TRNL-25C-25D	1
30D/40S(AHA)	LWR-TRNL-30C-30D	1
40D	LWR-TRNL-40C-40D	1
50C	LWR-TRNL-50C	1
60C	LWR-TRNL-60C	1

38. Cradle Terminal for Drawout AH/AHA ACB			
For ACB Rating	Reference	Terminal Configuration	Qty. Required Per Pole*
6D-8D / 06N-10N	CS-CKTTML-08N	Horizontal	1
	CS-CKTTML-08N(V)	Vertical	1
10D-12D / 12N	CS-CKTTML-12D	Horizontal	1
	CS-CKTTML-12D(V)	Vertical	1
16D / 16N	CS-CKTTML-16D	Horizontal	1
	CS-CKTTML-16D(V)	Vertical	1
20N/20S	CS-CKTTML-20S	Horizontal	1
	CS-CKTTML-20S(V)	Vertical	1
20D	CS-CKTTML-20D	Horizontal	1
	CS-CKTTML-20D(V)	Vertical	1
25D / 25N, 25D / 25N-30S	CS-CKTTML-25D	Horizontal	1
	CS-CKTTML-25D(V)	Vertical	1
30D / 40S	CS-CKTTML-30D	Vertical	1
40D	CS-CKTTML-40D	Vertical	1
50C	CS-CKTTML-50C	Vertical	1
60C	CS-CKTTML-60C	Vertical	1

Spares For "AH/AHA" ACB

(Please specify ACB rating & type while placing order for spares)

39. Main Moving Contacts Assembly		
For ACB Rating	Reference	Qty. Required Per Pole*
6D-8D	MOVMAIN-06D-08D	1
06N-10N	MOVMAIN-08N	1
10D-20D / 12N	MOVMAIN-10D-12D	1
16D / 16N	MOVMAIN-16D	1
20N (AHA)-(Fixed Type ACB)	MOVMAIN-20N	1
20N (AHA)-20S (Drawout Type ACB)	MOVMAIN-20S	1
20D	MOVMAIN-20D	1
25D / 25N-30S	MOVMAIN-25D	1
30D / 40S	MOVMAIN-30D	1
40D	MOVMAIN-40D	1
50C	MOVMAIN-50C	1
60C	MOVMAIN-60C	1

*** To arrive at total quantity per ACB, multiply by 3 or 4 depending upon number of poles in the ACB.

40. Complete Pole Unit (Common for 3 & 4 Pole ACBs)		
Sl. No.	For Air Circuit Breaker	Reference
40.1	Single Pole unit for 06D / 08D	CS-CONDUNIT-8D
40.2	Single Pole unit for 08N-10N	CS-CONDUNIT-8N
40.3	Single Pole unit for 10D / 12D & 12N	CS-CONDUNIT-12D
40.4	Single Pole unit for 16D / 16N	CS-CONDUNIT-16D
40.5	Single Pole unit for 20N (AHA)-F■	CS-CONDUNIT-20N
40.6	Single Pole unit for 20N (AHA)-DO■/20S	CS-CONDUNIT-20S
40.7	Single Pole Unit for 20D	CS-CONDUNIT-20D
40.8	Single Pole Unit for 25D / 25N-30S	CS-CONDUNIT-25D
40.9	Single Pole Unit for 30D/40S	CS-CONDUNIT-30D
40.10	Single Pole Unit for 40D	CS-CONDUNIT-40D
40.11	Single Pole Unit for 50C	CS-CONDUNIT-50C
40.12	Single Pole Unit for 60C	CS-CONDUNIT-60C



41. Arc Chutes		
For ACB Rating	Reference	Qty. Required Per Pole*
6D-16D/06N-20N	CS-ARCCHT-06D-16D	1
20S	CS-ARCCHT-20S	1
20D	CS-ARCCHT-20D	1
25D/30S	CS-ARCCHT-25D	1
30D/40S	CS-ARCCHT-30D	1
40D	CS-ARCCHT-40D	1
50C	CS-ARCCHT-50C	1
60C	CS-ARCCHT-60C	1



*** To arrive at total quantity per ACB, multiply by 3 or 4 depending upon number of poles in the ACB.

42. Charging Motors (110V AC/DC, 220V AC/DC, 250V AC/DC)	
For ACB Rating	Reference
6D-16D / 06N-20S (AHA)	AMH-1
20D-40D/30S-40S(AHA)	AMH-2



43. Control Relay for Charging Motor (110V AC/DC, 220V AC/DC)	
For ACB Rating	Reference
6D-16D / 06N-20S (AHA)	AMH-1-AS
20D-40D / 30S-40S (AHA)	AMH-2-AS

Spares For "AH/AHA" ACB

(Please specify ACB rating & type while placing order for spares)

43. Other Spares		
Sl. No.	Description	Reference
43.1	Micro Switch for Motor cut off 6D-40D/06N-40S /50C-60C	MICROSW *
43.2	Anti Pumping Relay 6D-16D/06N-20S, 3P 6D-16D/06N-20S, 4P	CS-ANTPUMPRLY-116** CS-ANTPUMPRLY-116 (4P)
	20D-25D/30S, 3P 20D-25D/30S, 4P	CS-ANTPUMPRLY-220 ** CS-ANTPUMPRLY-220 (4P)
	30D-40D/40S / 50C-60C, 3P 30D-40D/40S / 50C-60C, 3P	CS-ANTPUMPRLY-320** CS-ANTPUMPRLY-320 (4P)
43.3	Manual Charging Handle 6D-16D/06N-20S	MCLHND-6D-16D
43.4	Manual Charging Handle 20D-40D/25N-40S	MCLHND-20D-40D
43.5	Drawout Handle 6D-16D/06N-20S	DRHND-6D-16D
43.6	Drawout Handle 20D-40D/25N-40S	DRHND-20D-40D
43.7	Magnet Hold Trigger 6D-16D/06N-20S, 3P 6D-16D/06N-20S, 4P	CS-MHT-16D CS-MHT-16D-4P
43.8	Magnet Hold Trigger 20D-25D / 25N-30S, 3P 20D-25D / 25N-30S, 4P	CS-MHT-20D-25D3P CS-MHT-20D-25D4P
43.9	Magnet Hold Trigger 30D-40D/40S (AHA), 3P 50C-60C 3P	CS-MHT-30D-3P CS-MHT-40D-60C3P
	Magnet Hold Trigger 30D-40D / 40S / 50C-60C, 4P	CS-MHT-30D-60C4P
43.10	D/O Telescopic Rail (Left) 6D-16D / 06N-20S 20D-25D / 25N-30S 30D-40D /40S	DRTLRAIL (L)-1 DRTLRAIL (L)-2 DRTLRAIL (L)-3
43.11	D/O Telescopic Rail (Right) 6D-16D / 06N-20S 20D-25D / 25N-30S 30D-40D / 40S	DRTLRAIL (R)-1 DRTLRAIL (R)-2 DRTLRAIL (R)-3

Note: "****" Please specify ACB rating & type while ordering for spares.

**Options for Antipumping Relay					
	24/30V	48V	110V	220V	415V
AC	--	--	FA	MA	NA
DC	BD	ED	FD	MD	-

44. *Auxiliary Isolating Contact Blocks	
Description	Reference
Breaker & Cradle Side 12 Way	AIH-BC

*Auxiliary Isolating Contact Blocks has to be order together for Cradle & Breaker side.

AH/AHA ACB Order Form

Please fill separate sheet for each type of ACB. Tick the box in front of each appropriate item and fill in the blanks.

CUSTOMER NAME		ORDER NO. & DATE		DELIVERY DATE	END USER / PANEL BUILDER NAME & PHONE NO.		
RATING OF ACB REQUIRED	<input type="checkbox"/> 630 A	<input type="checkbox"/> 1000 A	<input type="checkbox"/> 1600 A	<input type="checkbox"/> 2500 A	<input type="checkbox"/> 4000 A	QTY. (NOS.)	
	<input type="checkbox"/> 800 A	<input type="checkbox"/> 1250 A	<input type="checkbox"/> 2000 A	<input type="checkbox"/> 3200 A	<input type="checkbox"/> 5000 A		
NO. OF POLES	<input type="checkbox"/> 3 POLE	<input type="checkbox"/> 4 POLE	Breaking capacity		Product Reference		
MOUNTING	<input type="checkbox"/> FIXED	<input type="checkbox"/> DRAWOUT	<input type="checkbox"/> 24/36 WAY AUX. ISOLATING CONTACT ASSLY. <input type="checkbox"/> POSITION INDICATION SWITCH <input type="checkbox"/> SHORT CIRCUIT CONTACTS _____ NOS / ACB				
OPERATION	<input type="checkbox"/> MANUAL	<input type="checkbox"/> ELECTRICAL	CLOSING COIL	<input type="checkbox"/> 110V AC	<input type="checkbox"/> 220~250V AC	<input type="checkbox"/> 415~440V AC	
				<input type="checkbox"/> 24V DC	<input type="checkbox"/> 48V DC	<input type="checkbox"/> 110V DC	<input type="checkbox"/> 220V DC
			SHUNT TRIP COIL	<input type="checkbox"/> 110V AC	<input type="checkbox"/> 220~250V AC	<input type="checkbox"/> 415~440V AC	
				<input type="checkbox"/> 24V DC	<input type="checkbox"/> 48V DC	<input type="checkbox"/> 110V DC	<input type="checkbox"/> 220V DC
			MOTOR	<input type="checkbox"/> 110V AC	<input type="checkbox"/> 220V AC		
				<input type="checkbox"/> 110V DC	<input type="checkbox"/> 220V DC		
RELEASES	<input type="checkbox"/> WITHOUT RELEASE						
	MICROPROCESSOR RELEASE		UNLESS & OTHERWISE SPECIFIED, ALL SETTINGS OF RELEASES WOULD BE SET AT MINIMUM VALUES.	SETTINGS :		CT RATING _____ A,	SHORT CIRCUIT _____ A,
	<input type="checkbox"/> MicroPro 3.1	<input type="checkbox"/> MicroPro 4.1		OVERLOAD _____ A,	INSTANTANEOUS _____ A		
	<input type="checkbox"/> MicroPro 5.1			GROUND FAULT _____ A,	Neutral _____ A		
<input type="checkbox"/> COMMUNICATION MODULE* (ModBus Protocol)	<input type="checkbox"/> POWER SUPPLY MODULE	<input type="checkbox"/> BATTERY UNIT*		<input type="checkbox"/> RECTIFIER*			
			<input type="checkbox"/> THERMAL MAGNETIC				
			EARTHFAULT REQD. <input type="checkbox"/>	NOT REQD. <input type="checkbox"/>			
			SHUNT TRIP _____ V AC/ _____ V DC	(220V AC SHUNT TRIP IS PROVIDED AS STANDARD)			
			REQUIRED CT RATING _____ 5A	NCT RATING _____ 5A			
			SETTING OF NON-ADJ. MAG. INST. TRIP _____ KA				
ACCESSORIES	<input type="checkbox"/> AUX. SW. 3 NO + 2 NC	<input type="checkbox"/> AUX. SW. 5 NO + 5 NC	<input type="checkbox"/> AUX. SW. 7 NO + 7 NC				
	<input type="checkbox"/> TRIP IND. SWITCH	<input type="checkbox"/> OCR ALARM SWITCH	<input type="checkbox"/> SPRING CHARGE IND. SWITCH				
	<input type="checkbox"/> POSITION IND. SWITCH	<input type="checkbox"/> CASTLE KEY INTERLOCK	<input type="checkbox"/> MECH. OPERATION COUNTER				
	<input type="checkbox"/> UVT. <input type="checkbox"/> 110V AC <input type="checkbox"/> 220~250V AC <input type="checkbox"/> 415~440V AC	<input type="checkbox"/> KEY INTERLOCK	<input type="checkbox"/> MECHANICAL INTERLOCK				
	<input type="checkbox"/> (WITHOUT TIME DELAY)	<input type="checkbox"/> 2 ACBs	<input type="checkbox"/> 3 ACBs	<input type="checkbox"/> DOOR INTERLOCK	HOR. <input type="checkbox"/> VER. <input type="checkbox"/>		
SPECIAL REQUIREMENT/ ACCESSORIES (IF ANY)							
<p>Notes: (1) Please refer catalogue for further details of MicroPro 3.1/4.1/5.1 Releases.</p> <p>(2) Neutral CT is required alongwith Microprocessor Release having Ground-Fault Protection. This has to be mounted on Earth / Neutral Busbar of Panel.</p> <p>*(220V AC input is required)</p>							

A



MOULDED CASE CIRCUIT BREAKERS



WiNbreak MCCB - CS Series

- Conforms to IS/IEC 60947-2
- Range: 15A-400A, 2, 3 & 4 Pole
- Breaking capacity: 10kA, 18kA & 25kA
- Positive Isolation
- Trip free mechanism
- SS Enclosure available
- Standard packing includes Spreader terminals, Insulating phase barriers & Hardwares



A

FTM (Thermal Magnetic) Release ● Fixed Overload ● Fixed short circuit						
Size	Rated Current (Amps)	Breaking capacity Icu at 415V AC	2 Pole Reference	3 Pole Reference	4 Pole Reference	
Frame 1	15, 20, 30, 32, 40, 50, 60, 63#	10kA	CS2A2*	CS2A3*	CS2A4*	
	75,100		CS2A2*	CS2A3*	CS2A4*	
	125		-	CS2A3*	CS2A4*	
Frame 3	150, 175	18kA	CS3A2*	CS3A3*	CS3A4*	
	200		CS3A2*	CS3A3*	CS3A4*	
	250		CS3A2*	CS3A3*	CS3A4*	
Frame 2	15, 20, 30, 40, 50, 60#	25kA	CS2B2*	CS2B3*	CS2B4*	
	75,100		CS2B2*	CS2B3*	CS2B4*	
Frame 3	150, 175		CS3B2*	CS3B3*	CS3B4*	
	200		CS3B2*	CS3B3*	CS3B4*	
	250		CS3B2*	CS3B3*	CS3B4*	
Frame 4	300❖		-	-	CS4A3*	CS4A4*
	350, 400❖		-	-	CS4A3*	CS4A4*

- Notes :**
1. While Ordering, Replace "*" by current rating
 2. # Spreader Terminals are not included
 3. ❖Ics=100% Icu

Accessories						
Suitable for use on MCCBs	Shunt Trip (SHT)	Under Voltage Trip (UVT)	Auxiliary Switch (AX)	Alarm Switch (AL)	Direct Rotary Handle	Extended Rotary Handle
	Reference	Reference	Reference	Reference	Reference	Reference
CS2A	ST-A(..V)	UVT-A(..V)	ASW-A(*)	ALSW-A(*)	D-35S	CSE-35S
CS2B	ST-B(..V)	UVT-B(..V)	ASW-B(*)	ALSW-B(*)	D-45S	CSE-45
CS3A / CS3B	ST-C(..V)	UVT-C(..V)	ASW-C(*)	ALSW-C(*)	D-55S	CSE-55
CS4A	ST-6A(..V)	UVT-6A(..V)	ASW-6A	ALSW-6A	N-70S	E-70U

- Notes:**
1. *Please read R as MCCB left hand side position & T as right hand position
 2. For Frame1, Frame 2 & Frame3 shunt trip is available in 12VAC/DC, 24VAC/DC, 48VAC/DC, 110VAC/DC, 220VAC/DC, 415VAC (Replace ST-A(..V), ST-B(..V) and ST-C(..V) by required voltage)
 3. For Frame4 shunt trip is available in 24-48VAC/DC, 100-220VDC, 100-240VAC, 380-550VAC/DC (Replace ST-6A (...V) by required voltage)
 4. Rotary Handle for 2 Pole, Frame1 & Frame2 is not available.
 5. For Frame1, Frame2 & Frame3 UVT is available in 24VAC/DC, 48VAC/DC, 110VAC/DC, 220VAC/DC & 415VAC (Replace ST-A(..V), ST-B(..V) and ST-C(..V) by required voltage)
 6. For Frame4 UVT is available in 48VAC/DC, 100-125VAC, 100-110VDC, 220-240VAC, 200-220VDC, 380-440VAC & 440-480VAC (Replace UVT-6A (...V) by required voltage)
 7. Maximum possibilities for internal accessories
Frame1, Frame2 & Frame3 :
 Left hand seat - AX or AL Right hand seat - AX or AL or SHT or UVT
Frame 4:
 Left hand seat - 2AX, 2AL and SHT or UVT Right hand seat - 2AX, 2AL and SHT or UVT



WiNbreak MCCB SS Enclosure					
Size	Suitable for use on MCCBs	For Indoor use		For Outdoor use	
		3 Pole Reference	4 Pole Reference	3 Pole Reference	4 Pole Reference
Frame 1	CS2A	CS-CNM0100020	CS-CNM0100020	CS-CNM0100281	CS-CNM0100281
Frame 2	CS2B/CSC4	CS-CNM0100021	CS-CNM0100021	CS-CNM0100299	CS-CNM0100299
Frame 3	CS3A, CS3B	CS-CNM0100021	CS-CNM0100021	CS-CNM0100299	CS-CNM0100299
Frame 4	CSC5/CS4A	CNM0100246	CNM0100465	On Request	On Request
Frame 5*	CSC6	CNM0100247	CNM0100247	On Request	On Request

* only for WiNbreak MCCB - CSC Series

WiNbreak MCCB - CSC Series

- Conforms to IS/IEC 60947-2
- Ics=100%Icu
- Range: 15A-1200A, 2, 3 & 4 Pole
- Breaking capacity: 18kA, 26kA, 37kA, 50kA, 65kA & 85kA
- Positive Isolation
- Trip free mechanism
- Wide range of Internal & External Accessories
- SS Enclosure available
- Standard packing includes insulating phase barriers and hardware



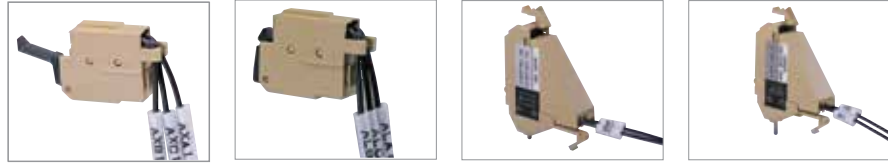
FTM (Thermal Magnetic) Release ● Fixed Overload ● Fixed short circuit					
Size	Rated Current (Amps)	Breaking capacity Icu at 415V AC	2 Pole Reference	3 Pole Reference	4 Pole Reference
Frame 1	15, 20, 30, 40, 50	18kA	CSC1S2*	CSC1S3*	CSC1S4*
	60, 75, 100		CSC2N2*	CSC2N3*	CSC2N4*
Frame 3	150, 175	26kA	CSC4N2*	CSC4N3*	CSC4N4*
	200		CSC4N2*	CSC4N3*	CSC4N4*
	250		CSC4N2*	CSC4N3*	CSC4N4*
Frame 2	15, 20, 30, 40, 50, 60	37kA	CSC3S2*	CSC3S3*	CSC3S4*
	75, 100		CSC3S2*	CSC3S3*	CSC3S4*
	125		CSC3S2*	CSC3S3*	CSC3S4*
Frame 3	150, 175		-	CSC4S3*	CSC4S4*
	200		-	CSC4S3*	CSC4S4*
	250		-	CSC4S3*	CSC4S4*
Frame 4	300◆		-	CSC5N3*	CSC5N4*
	350, 400◆		-	CSC5N3*	CSC5N4*
Frame 5	500, 630		-	CSC6N3*	CSC6N4*
	700, 800	-	CSC6N3*	CSC6N4*	
Frame 2	15, 20, 30, 40, 50, 60	50kA	-	CSC3H3*	CSC3H4*
	75, 100		-	CSC3H3*	CSC3H4*
	125		-	CSC3H3*	CSC3H4*
Frame 3	150, 175		-	CSC4H3*	CSC4H4*
	200		-	CSC4H3*	CSC4H4*
	250		-	CSC4H3*	CSC4H4*
Frame 4	300◆		-	CSC5S3*	CSC5S4*
	350, 400◆		-	CSC5S3*	CSC5S4*
Frame 5	500, 630		65kA	-	☒ CSC5H3*
	700, 800	-		☒ CSC5H3*	☒ CSC5H4*
Frame 4	300◆	85kA	-	CSC6S3*	CSC6S4*
	350, 400◆		-	CSC6S3*	CSC6S4*
Frame 5	500, 630	85kA	-	☒ CSC5L3*	☒ CSC5L4*
	700, 800		-	☒ CSC5L3*	☒ CSC5L4*
Frame 5	500, 630	85kA	-	☒ CSC6L3*	☒ CSC6L4*
	700, 800		-	☒ CSC6L3*	☒ CSC6L4*

FTM (Thermal Magnetic) Release ● Fixed Overload ● Fixed short circuit ● Ics=50%Icu					
Size	Rated Current (Amps)	Breaking capacity Icu at 415V AC	2 Pole Reference	3 Pole Reference	4 Pole Reference
Frame 6	1000◆	65kA	-	CSC7S3*	CSC7S4*
	1200◆		-	CSC8S3*	CSC8S4*
Frame 6	1000◆	85kA	-	☒ CSC7L3*	☒ CSC7L4*
	1200◆		-	☒ CSC8L3*	☒ CSC8L4*

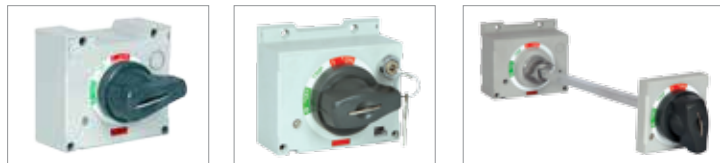
Notes :

1. While Ordering, Replace "*" by Current rating.
2. ◆Spreader Terminals are included as standard packing.

Winbreak MCCB - CSC Series



Accessories					
Suitable for use on WB-CSC MCCBs	Shunt Trip (SHT)	Under Voltage Trip (UVT)	Auxiliary Switch (AX)	Alarm Switch (AL)	Combination Switch (AX + AL)
CSC1, CSC2, CSC3, CSC4	STC(...V)	UVTC(...V)	AXWC-(*)	ALWC-(*)	XLC-(*)
CSC5, CSC6	ST-6A(...V)	UVT-6A(...V)	ASW-6A	ALSW-6A	-
CSC7, CSC8	ST-7A(...V)	UVT-7A(...V)	ASW-7A	ALSW-7A	-



Rotary Handle			
Suitable for use on WB-CSC MCCBs	Direct Rotary Handle	Direct Rotary Handle with Key Lock	Extended Rotary Handle
CSC1, CSC2	DHC100	DHCK100	CSE-35S■
			EHC100
CSC3	DHC125	DHCK125	CSE-45S■
			EHC125
CSC4	DHC250	DHCK250	EHC250
CSC5	N70S	-	E70U
CSC6	-	-	E80U

Notes:

- Please replace "*" with R as MCCB left hand side position & T as MCCB right hand position.
- Left Hand seat is not available in 2 Pole MCCB in Frame 1 & Frame 2
- For Frame 1, Frame 2, Frame 3 & Frame 4 - Shunt Trip is available in 12V AC/DC, 24V AC/DC, 48V AC/DC, 60V AC/DC, 100-130V AC/DC, 200-250V AC/DC, 380-450VAC, 440-550VAC. (Replace STC(...V) by required voltage)
- For Frame 5 - Shunt Trip is available in 100-240V AC, 100-220V DC, 24-48V AC/DC, 380-550VAC. (Replace ST-6A(...V) by required voltage)
- For Frame 6 - Shunt Trip is available in 200-220VAC (Replace ST-7A(...V) by required voltage)
- For Frame 1, Frame 2, Frame 3 & Frame 4-UVT is available in 24V AC/DC, 48V AC/DC, 100-110V AC/DC, 200-220V AC/DC, 380-400VAC, 440-480VAC. (Replace UVTC(...V) by required voltage)
- For Frame 5 - UVT is available in 100-125V AC, 100-110V DC, 200-240VAC, 220-220VDC, 380-400VAC & 440-480VAC. (Replace UVT-6A(...V) by required voltage)
- For Frame 6 - UVT is available in 200-220VAC (Replace UVT-7A(...V) by required voltage)
- Rotary Handle for 2 Pole Frame 1 & Frame 2 is not available.
- Conventional type

Maximum possibilities for auxiliaries

Left-hand seat

Right-hand seat

- 100AF, 125AF and 250AF Breakers**

Left-hand seat Option of connecting AX or AL or XL <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;"> AX or AL or XL </div>	Right-hand seat Option of connecting AX or AL or XL or SHT or UVT <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;"> AX or AL or XL or SHT or UVT </div>
---	--
- 400AF, 800AF Breakers**

Left-hand seat Option of connecting 2AX, 2AL and SHT or UVT <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;"> AL AL SHT or UVT AX AX </div>	Right-hand seat Option of connecting 2AX, 2AL and SHT or UVT <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;"> SHT or UVT AL AL AX AX </div>
---	--
- 1000AF, 1250AF Breakers**

Left-hand seat Option of connecting SHT or UVT <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;"> SHT or UVT </div>	Right-hand seat Option of connecting 1AX, 1AL and 1AX or 1AL <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;"> AX AX or AL AL </div>
---	---

WiNbreak MCCB - CSC Series

A



Terminal Covers			
Suitable for use on WB-CSC MCCBs	For Line/Load Side		
	2P Reference	3P Reference	4P Reference
CSC1, CSC2	TCS12	TCS13	TCS14
CSC3	TCS22	TCS23	TCS24
CSC4	TCS33	TCS33	TCS34



Mechanical Interlock		
Suitable for use on MCCBs	Applied between two MCCBs	
	Reference 3 Pole	Reference 4 Pole
CSC5	MI-43S	MI-44S
CSC6	MI-83S	MI-84S



Spreader Terminals				
Suitable for use on MCCBs	Pole	Current Rating (A)	Reference	Std Pkg. (No's)
CSC1, CSC2, CSC3	2 Pole	15, 20, 30, 40, 50, 60	CSET1022	Set of 3
CSC1, CSC2, CSC3		75, 100, 125	CSET1022C	Set of 3
CSC1, CSC2, CSC3	3Pole	15, 20, 30, 40, 50, 60	CSET1033	Set of 3
CSC1, CSC2, CSC3		75, 100, 125	CSET1033C	Set of 3
CSC1, CSC2, CSC3	4 Pole	15, 20, 30, 40, 50, 60	CSET1044	Set of 4
CSC1, CSC2, CSC3		75, 100, 125	CSET1044C	Set of 4
CSC4	2 Pole	150, 175, 200, 250	CSET2522	Set of 3
CSC4	3 Pole	150, 175, 200, 250	CSET2533	Set of 3
CSC4	4 Pole	150, 175, 200, 250	CSET2544	Set of 4
CSC6	3 Pole	500, 630, 700, 800	CSET8033	Set of 3
CSC6	4 Pole	500, 630, 700, 800	CSET8044	Set of 4



SS Enclosure for WB MCCB		
Size	Suitable for use on MCCBs	Reference*
Frame 1	CSC1, CSC2	CS-CNM0100020
Frame 2	CSC3	CS-CNM0100021
Frame 3	CSC4	CS-CNM0100021
Frame 4	CSC5	ENCL-250-400AF3
Frame 5	CSC6	CS-CNM0100203
Frame 6	CSC7, CSC8	CS-CNM0100204

Notes:

- 1) *Reference code is for Enclosure only (without MCCB)
- 2) For placing an order for MCCB along with Enclosure, please apply Prefix E- before MCCB Reference Code.

WiNbreak1 MCCB

- Conforms to IS/IEC 60947-2
- Ics=100% Icu
- Range: 16A-400A, 3 & 4 Pole
- Breaking capacity: 25kA, 35/36kA, 50kA
- Positive Isolation
- Trip free mechanism
- Neutral with 100% rated current
- Bounce free contact structure
- Wide range of Internal & External Accessories
- SS Enclosure available
- Standard packing includes insulating phase barrier and hardware



A

FMU (Thermal Magnetic) Release • Adjustable Overload 80-100% • Fixed short circuit 10In				
Size	Rated Current (Amps)	Breaking capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference
Frame 1	16, 20, 25, 32, 40, 50	25kA	CSE1M125FMU3P-*	CSE1M125FMU4P-*
	16, 20, 25, 32, 40, 50	35kA	CSE1N125FMU3P-*	CSE1N125FMU4P-*

ATM (Thermal Magnetic) Release • Adjustable Overload 80-100% • Adjustable Short Circuit 5-10 In					
Size	Rated Current (Amps)	Breaking capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference	
Frame 1	63, 80, 100	25kA	CSE1M125ATM3P-*	CSE1M125ATM4P-*	
	125		CSE1M125ATM3P-*	CSE1M125ATM4P-*	
Frame 2	160		CSE2M250ATM3P-*	CSE2M250ATM4P-*	
	200		CSE2M250ATM3P-*	CSE2M250ATM4P-*	
	250		CSE2M250ATM3P-*	CSE2M250ATM4P-*	
Frame 3	320		CSE3M400ATM3P-*	CSE3M400ATM4P-*	
	350		CSE3M400ATM3P-*	CSE3M400ATM4P-*	
	400		CSE3M400ATM3P-*	CSE3M400ATM4P-*	
Frame 1	63, 80, 100		35kA	CSE1N125ATM3P-*	CSE1N125ATM4P-*
	125			CSE1N125ATM3P-*	CSE1N125ATM4P-*
Frame 2	160	CSE2N250ATM3P-*		CSE2N250ATM4P-*	
	200	CSE2N250ATM3P-*		CSE2N250ATM4P-*	
	250	CSE2N250ATM3P-*		CSE2N250ATM4P-*	
Frame 3	320	CSE3N400ATM3P-*		CSE3N400ATM4P-*	
	350	CSE3N400ATM3P-*		CSE3N400ATM4P-*	
	400	CSE3N400ATM3P-*		CSE3N400ATM4P-*	
Frame 3	320	50kA		CSE3S400ATM3P-*	CSE3S400ATM4P-*
	350			CSE3S400ATM3P-*	CSE3S400ATM4P-*
	400		CSE3S400ATM3P-*	CSE3S400ATM4P-*	

ATM (Thermal Magnetic) Release • Adjustable Overload 80-100% • Adjustable Short Circuit 5-10 In • Ics=75%Icu				
Size	Rated Current (Amps)	Breaking capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference
Frame 2	160	25kA	CSE2MX250ATM3P-*	CSE2MX250ATM4P-*
	200		CSE2MX250ATM3P-*	CSE2MX250ATM4P-*
	250		CSE2MX250ATM3P-*	CSE2MX250ATM4P-*
Frame 2	160	35kA	CSE2NX250ATM3P-*	CSE2NX250ATM4P-*
	200		CSE2NX250ATM3P-*	CSE2NX250ATM4P-*
	250		CSE2NX250ATM3P-*	CSE2NX250ATM4P-*
Frame 2	160	50kA	CSE2S250ATM3P-*	CSE2S250ATM4P-*
	200		CSE2S250ATM3P-*	CSE2S250ATM4P-*
	250		CSE2S250ATM3P-*	CSE2S250ATM4P-*

FMU / ATM (Thermal Magnetic) Release • Adjustable Overload 80-100% • Adjustable Short Circuit 5-10 In • Ics=50%Icu				
Size	Rated Current (Amps)	Breaking capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference
Frame 1	16, 20, 25, 32, 40, 50	50kA	CSE1S125FMU3P-*	CSE1S125FMU4P-*
	63, 80, 100		CSE1S125ATM3P-*	CSE1S125ATM4P-*
	125		CSE1S125ATM3P-*	CSE1S125ATM4P-*

Notes :

1. While Ordering, Replace*** by Current Rating.
2. MCCB with 36kA Breaking capacity is also available.

A

WiNbreak1 MCCB

3 & 4 Pole

Microprocessor Release 'MicroPro WB'

- Conforms to IS/IEC 60947-2
- Ics=100%Icu
- Range: 40A-250A, 3P & 4P
- Breaking capacity: 35kA & 50kA
- Suitable for isolation
- Adjustable over load from 0.4-1.0In
- Adjustable short circuit from 2-12Ir
- Inbuilt ground fault protection available 20% to 100% of In
- Adjustable neutral overload protection available: 50% to 100% of Ir
- Adjustable current imbalance protection available: (30%-70%) of Ir
- Provision of thermal memory: ON/OFF
- Communication using RS485 through MODBUS protocol
- View last trip information
- LCD: Indication of measurement and information



ETM (with in-built Earth fault Protection) ● Adjustable Overload 40 - 100% ● Adjustable shortcircuit 2-12 Ir				
Size	Release Range (A)	Breaking Capacity Icu at 415V AC	3 Pole - Reference	4 Pole - Reference
Frame 1	16-40	35kA	CSE1N125ETM3P-40A	CSE1N125ETM4P-40A
	25-63		CSE1N125ETM3P-63A	CSE1N125ETM4P-63A
	40-100		CSE1N125ETM3P-100A	CSE1N125ETM4P-100A
	50-125		CSE1N125ETM3P-125A	CSE1N125ETM4P-125A
Frame 2	63-160	50kA	CSE2N250ETM3P-160A	CSE2N250ETM4P-160A
	80-200		CSE2N250ETM3P-200A	CSE2N250ETM4P-200A
	100-250		CSE2N250ETM3P-250A	CSE2N250ETM4P-250A
ETM (with in-built Earth fault Protection) ● Adjustable Overload 40-100% ● Adjustable shortcircuit 2-12 Ir ● Ics=75%Icu				
Frame 2	63-160	50kA	CSE2S250ETM3P-160A	CSE2S250ETM4P-160A
	80-200		CSE2S250ETM3P-200A	CSE2S250ETM4P-200A
	100-250		CSE2S250ETM3P-250A	CSE2S250ETM4P-250A
ETM (with in-built Earth fault Protection) ● Adjustable Overload 40-100% ● Adjustable shortcircuit 2-12 Ir ● Ics=50%Icu				
Frame 1	16-40	50kA	CSE1S125ETM3P-40A	CSE1S125ETM4P-40A
	25-63		CSE1S125ETM3P-63A	CSE1S125ETM4P-63A
	40-100		CSE1S125ETM3P-100A	CSE1S125ETM4P-100A
	50-125		CSE1S125ETM3P-125A	CSE1S125ETM4P-125A

Note:

1. While ordering, Replace "*" with Current rating
2. For 3 Pole ETM (Microprocessor) MCCB one Neutral CT will be required, if ground fault protection is required.

WiNbreak1 MCCB

Single Pole

- Conforms to IS/IEC 60947-2
- $I_{cs}=100\%I_{cu}$
- Range: 16A-160A
- Breaking capacity: 18kA, 25kA & 36kA
- Standard packing includes Spreader terminals, insulating phase barrier & hardware



A

FTM (Thermal Magnetic) Release • Fixed Overload • Fixed short circuit

Frame Size	Breaking Capacity @ 240V AC	Rating (Amps)	Reference	Remarks
100AF	18kA	16, 20, 25, 32, 40, 50, 63, 80, 100	CSE0K100FTM1P-*	Without Spreaders
150AF	18kA	16, 20, 25, 32, 40, 50, 63	CSE0K150FTM1P-*	Without Spreaders
		80, 90, 100	CSE0K150FTM1P-*	Without Spreaders
		120, 135, 150	CSE0K150FTM1P-*	Without Spreaders
160AF	18kA	16, 20, 25, 32, 40, 50, 63	CSE1K160FTM1P-*	Without Spreaders
		80, 90, 100	CSE1K160FTM1P-*	With Spreaders
		120, 125	CSE1K160FTM1P-*	With Spreaders
		160	CSE1K160FTM1P-*	With Spreaders
160AF	25kA	16, 20, 25, 32, 40, 50, 63	CSE1L160FTM1P-*	Without Spreaders
		80, 90, 100	CSE1L160FTM1P-*	With Spreaders
		120, 125	CSE1L160FTM1P-*	With Spreaders
		160	CSE1L160FTM1P-*	With Spreaders
160AF	36kA	16, 20, 25, 32, 40, 50, 63	CSE1M160FTM1P-*	Without Spreaders
		80, 90, 100	CSE1M160FTM1P-*	With Spreaders
		120, 125	CSE1M160FTM1P-*	With Spreaders
		160	CSE1M160FTM1P-*	With Spreaders

Note:

1. While Ordering, Replace "*" by Current Rating.
2. Spreader Terminals are not included for MCCBs upto 63A.
3. Also available in 25kA & 36kA.

Accessories					
Suitable for use on Winbreak1 MCCB	Shunt Trip (SHT)	Under Voltage Trip (UVT)	Auxiliary Switch (AX)	Alarm Switch (AL)	Combination Switch (AX+AL)
CSE1, CSE2	STW1-(...V)	UVTW1-(...V)	AXW1-*	ALW1-*	XLW1-*
CSE3	STW1-3(...V)	UVTW1-3(...V)	AXW1-3*	ALW1-3*	XLW1-3*

Note:

- Please replace "*" with L as MCCB Left hand side position & R as MCCB right hand position
- For Frame1, Frame2 & Frame3 Shunt Trip is available in 24V DC, 48V DC, 110V DC, 220V AC/DC & 415V AC. (Replace STW1-(...V) by required voltage.
- For Frame1, Frame2 UVT is available in 24V DC, 48V DC, 110V DC, 220V AC/DC & 415V AC. (Replace UVTW1-(...V) by required voltage.
- For Frame 3 UTV available in 110V AC, 220V AC/DC & 415V AC. (Replace UVTW1-(...V) by required voltage.
- Maximum Possibilities for Internal Accessories
 - 3 Pole, MCCB with Thermal Release, Any two accessories can be fitted at one time
 - 4 Pole, MCCB with Thermal Release, Any Three accessories can be fitted at one time
 - 3 Pole MCCB with Microprocessor Release, Right hand seat is not available.
 - 4 Pole MCCB with Microprocessor Release, Any two accessories can be fitted at one time.
 - UVT can be fitted only in left hand seat



Extended Rotary Handle	
Suitable for use on Winbreak1 MCCBs	Reference
CSE1	EHW1-125
CSE2	EHW1-250
CSE3	EHW1-400

Panel Door Mounted Key Lock for Extended Rotary Handle	
Suitable for use on Winbreak1 MCCBs	Reference Code
CSE1	EXTKLWB1-125AF-T1
CSE2	EXTKLWB1-250AF-T1
CSE3	EXTKLWB1-400AF-T1



Mechanical Interlock		
Suitable for use on Winbreak1 MCCBs	Applied between two MCCBs	
	Reference 3 Pole	Reference 4 Pole
CSE1	MIW1-125-3P	MIW1-125-4P
CSE2	MIW1-250-3P	MIW1-250-4P
CSE3	MIW1-400-3P	MIW1-400-4P



Locking Devices*		
Suitable for use on MCCBs	Key Lock*	Padlocking#
	Reference	Reference
CSE1	KLW1-125	PLW1-125
CSE2	KLW1-250	PLW1-250
CSE3	KLW1-400	PLW1-400

Removable Type * Factory fitted only



Spreader Terminals for Winbreak1 MCCB				
Suitable for use on MCCBs		Current Rating (A)	Reference	Std Pkg (No.s)
CSE1	3 Pole	15, 20, 32, 40, 50, 63	CSET1033	Set of 3
CSE1	3 Pole	80, 100, 125	CSET1033C	Set of 3
CSE1	4 Pole	15, 20, 32, 40, 50, 63	CSET1044	Set of 4
CSE1	4 Pole	80, 100, 125	CSET1044C	Set of 4
CSE2	3 Pole	160, 200, 250	CSET2533	Set of 3
CSE2	4 Pole	160, 200, 250	CSET2544	Set of 4
CSE3	3 Pole	320, 350, 400	CSETETW14033	Set of 3
CSE3	4 Pole	320, 350, 400	CSETETW14044	Set of 4



Earth Fault Relay (Built in CBCT) Suitable for 3 Phase 3 wire distribution network

Rating (Amps)	Earth Fault Relay Setting Range	Reference
32A	3.2~32A	EFR-CBCT125-AF-32
40A	4~40A	EFR-CBCT125-AF-40
63A	6.3~63A	EFR-CBCT125-AF-63
80A	8~80A	EFR-CBCT125-AF-80
100A	10~100A	EFR-CBCT125-AF-100
125A	12.5~125A	EFR-CBCT125-AF-125
200A	20~200A	EFR-CBCT250-AF-200
250A	25~250A	EFR-CBCT250-AF-250
400A	40~400A	EFR-CBCT400-AF-400
630A	63~630A	EFR-CBCT630-AF-630
800A	80~800A	EFR-CBCT800-AF-800
1000A	100~1000A	EFR-CBCT1250-AF-1000
1250A	125~1250A	EFR-CBCT1250-AF-1250

Earth Fault Relay (with NCT) Suitable for 3 Phase 4 wire distribution network

Rating (Amps)	Earth Fault Relay Setting Range	Reference
40A	4~40A	EFR125-AF-40(N)
100A	10~100A	EFR125-AF-100(N)
125A	12.5~125A	EFR125-AF-125(N)
200A	20~200A	EFR250-AF-200
250A	25~250A	EFR250-AF-250
400A	40~400A	EFR400-AF-400
630A	63~630A	EFR630-AF-630
800A	80~800A	EFR800-AF-800
1000A	100~1000A	EFR1250-AF-1000
1250A	125~1250A	EFR1250-AF-1250

NCT Winbreak1 ETM (Microprocessor) 3 Pole MCCB if ground fault facility is required

Rating (Amps)	Description	Reference
40	40/0.1A	ETMNCT40A
63	63/0.1A	ETMNCT63A
80	80/0.1A	ETMNCT80A
100	100/0.1A	ETMNCT100A
125	125/0.1A	ETMNCT125A
160	160/0.1A	ETMNCT160A
200	200/0.1A	ETMNCT200A
250	250/0.1A	ETMNCT250A
320	320/0.1A	ETMNCT320A
350	350/0.1A	ETMNCT350A
400	400/0.1A	ETMNCT400A



Winbreak1 MCCB SS Enclosure

Size	Suitable for WB1 MCCBs	Reference
Frame1	CSE1	CSE-ENCL-125
Frame1	CSE2	CSE-ENCL-250

Notes:

1. Reference Code is for Enclosure only (without MCCB)
2. For Placing an order for MCCB along with Enclosure, please apply prefix E-before MCCB Reference.

C&S Electric offers innovative, intelligent,
integrated and intuitive solution

WiNbreak2

An Absolute solution for power distribution

Conforms to IS/IEC 60947-2

$I_{cs} = 100\% I_{cu}$

$I_{cw} = 25kA / 1s$

Range : 800A to 1600A, 3P & 4P

Breaking capacity : 50kA, 70kA & 150kA

$U_i : 1000V$

$U_{imp} : 8kV$



For power distribution

- The highest breaking capacity
- Optimum coordination Technique (cascading & discrimination)
- Powerful engineering tools

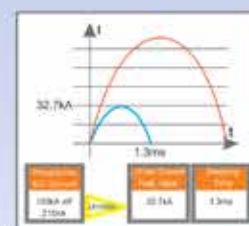
For protection of motor and its control device

- Optimal overload protection

For controlling & disconnecting circuits

For extensive application

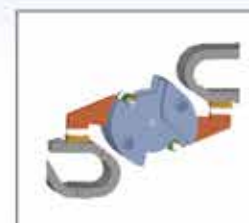
- wide range of optimized auxiliaries & accessories



Current Limiting



Tripping by Pressure



Double Contact Structure

INTELLIGENT RELEASE

Trip releases are classified according to their usages and functions to maximise customer's satisfaction. It makes the breaking capacity of circuit breaker improved and breaker's life enhanced and provides advanced functions – measurement, diagnosis, analysis and communication

N Type (Normal)



- L/S/I/G Thermal
- Self-Power
- RTC Timer
- Fault information (LED)

A Type (Ammeter)



- L/S/I/G Thermal
- ZSI (Protective Co-ordination)
- Earth Leakage
- Current Measurement
- Digital Output
- Modbus/RS-485
- Profibus-DP
- Self-Power
- RTC Timer
- Fault recording (10 Records)
- Fault information (LED)

P Type (Power Meter)



- L/S/I/G Thermal (continuous)
- ZSI (protective coordination)
- Earth Leakage
- Current / Voltage / RMS / Vector / Power/ Energy / Frequency measurement
- Pri-Trip Alarm
- IDML setting
- Digital output
- Modbus/RS-485
- Profibus-DP
- Self-power
- RTC Timer
- Event recording (256 records)
- Fault recording (256 records)
- Fault information (LED)

S Type (Supreme Meter)



- L/S/I/G Thermal (continuous)
- ZSI (protective coordination)
- Earth Leakage
- Current / Voltage / RMS / Vector / Power/ Energy / Frequency measurement
- Pri Trip alarm
- IDML setting
- Digital output
- Modbus/RS-485
- Profibus-DP
- Self-power
- RTC timer
- Harmonics (63th) ,Waveform
- Event recording (256 records)
- Fault recording (256 records)
- Fault information (LED)

WiNbreak2 MCCB (1600AF)

- LSI Protection
- Thermal Memory
- Current, Voltage, Power, Energy
- Frequency measurement
- Trip History
- Digital Display
- Fault recording
- Event Recording
- Communication
- Harmonics
- True RMS Sensing
- ZSI
- IDMTL Setting
- Self Power
- LED for Tripping Information
- RTC Timer
- Pre Trip Alarm

MCCB with Intelligent Release - N Type				
Size	Release Range (A)	Breaking Capacity @ 415VAC	3 Pole Reference	4 Pole Reference
Frame 5	400-800	50kA	CS1000NNG5800A3P	CS1000NNG5800A4P
	500-1000		CS1000NNG51000A3P	CS1000NNG51000A4P
	625-1250		CS1250NNG51250A3P	CS1250NNG51250A4P
	800-1600		CS1600NNG51600A3P	CS1600NNG51600A4P
	400-800	70kA	CS1000HNG5800A3P	CS1000HNG5800A4P
	500-1000		CS1000HNG51000A3P	CS1000HNG51000A4P
	625-1250		CS1250HNG51250A3P	CS1250HNG51250A4P
	800-1600		CS1600HNG51600A3P	CS1600HNG51600A4P

MCCB with high end release w.r.t "Intelligent release - N Type"	
Release	
Intelligent release - A Type*	ADD
Intelligent release - P Type*	ADD
Intelligent release - S Type*	ADD

Internal Accessories					
WB2 MCCBs	Shunt Trip (SHT)	Under Voltage Trip (UVT)	Auxiliary Switch (AX)	Alarm Switch (AL)	Fault Alarm Switch (FAL)*
CS1000-1600	SHT5-T(...V)	UVT5-T(...V)	AX5-T	AL5-T	FAL5-T
Note :					
1. Shunt Trip is available in 24-30V AC/DC, 48-60V DC, 100-130V AC/DC, 200-250V AC/DC & 380- 480V AC					
2. UVT is available in 24-30V AC/DC, 48-60V DC, 100-130V AC/DC, 200-250V AC/DC & 380-480V AC					

WB2 MCCBs	Direct Rotary Handle	Direct Rotary Handle (Keylock)	Extended Rotary Handle
CS1000-1600	DH5-S	DHK5-S	EH5-S

Mechanical Interlock		
WB2 MCCBs	Applied between two MCCBs	
	3 Pole Reference	4 Pole Reference
CS1000-1600	MIT53	MIT54

Padlocking Device		
WB2 MCCBs	Fixed Lock Reference	Removable Lock Reference
CS1000-1600	PHL5	PL5

WiNbreak2 MCCB

- Conforms to IS/IEC 60947-2
- Ics = 100% Icu
- Range: 16A-1600A, 3P & 4P
- Breaking capacity: 50kA, 65kA, 70kA, 85kA & 150kA
- Positive Isolation
- Trip Free Mechanism
- Double contact structure
- Communication compatible
- No Line-load Bias
- Neutral with 100% rated current
- Tripping by pressure
- Current limiting
- Manual, Rotary or Motorized available
- Wide range of internal & external accessories
- Standard packing includes spreaders terminals, insulating phase barriers and hardware



A

FMU (Thermal Magnetic) Release ● Adjustable Overload 80-100% ● Fixed short circuit 10 In				
Size	Rated Current (A)	Breaking capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference
Frame 1	16, 20, 25, 32, 40, 50, 63	50kA	CD100NFMU*3P	CD100NFMU*4P
	80, 100		CD100NFMU*3P	CD100NFMU*4P
Frame 3	300, 400	65kA	CS400NFMU*3P	CS400NFMU*4P
	500, 630		CS630NFMU*3P	CS630NFMU*4P
Frame 4	800	65kA	CS800NFMU*3P	CS800NFMU*4P

ATU (Thermal Magnetic) Release ● Adjustable Overload 80 - 100% ● Adjustable Short circuit 5 - 10 In				
Size	Rated Current (A)	Breaking capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference
Frame 2	125	50kA	CS160NATU*3P	CS160NATU*4P
	160		CS160NATU*3P	CS160NATU*4P
	200		CS250NATU*3P	CS250NATU*4P
	250		CS250NATU*3P	CS250NATU*4P
Frame 3	300, 400	65kA	CS400NATU*3P	CS400NATU*4P
	500, 630		CS630NATU*3P	CS630NATU*4P
Frame 4	800	65kA	CS800NATU*3P	CS800NATU*4P

ETS (Microprocessor based) Release ● Adjustable Overload 40 - 100% ● Adjustable shortcircuit 1.5 - 10 In				
Size	Rated Current (A)	Breaking capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference
Frame 2	40	50kA	CS160NETS*3P	CS160NETS*4P
	80, 160		CS160NETS*3P	CS160NETS*4P
	250		CS250NETS*3P	CS250NETS*4P
Frame 3	400	65kA	CS400NETS*3P	CS400NETS*4P
	630		CS630NETS*3P	CS630NETS*4P
Frame 4	800	65kA	CS800NETS*3P	CS800NETS*4P

WiNbreak2 MCCB

A

ETM (Microprocessor Release with in-built Earth fault Protection) ● Adjustable Overload 40 - 100% ● Adjustable shortcircuit 1.5 - 10 In				
Size	Rated Current (Amps)	Breaking capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference
Frame 3	160	65kA	CS400NETM33160A3PE	CS400NETM33160A4PE
	250		CS400NETM33250A3PE	CS400NETM33250A4PE
	400		CS400NETM33400A3PE	CS400NETM33400A4PE
	630		CS630NETM33630A3PE	CS630NETM33630A4PE
Frame 4	800	65kA	CS800NETM43800A3PE	CS800NETM43800A4PE

Note :

1. While ordering replace ""**" by Current Rating
2. Spreader Terminals are not included MCCBs upto 63A
3. For 3 Pole ETM (Microprocessor) MCCB one Neutral CT will be required.
4. MCCB with Ammeter, ZSI & communication feature is also available.
5. MCCB for Motor Backup Protection is also available.



Accessories					
Suitable for use on WB2 MCCBs	Shunt Trip (SHT)	Under Voltage Trip (UVT)	Auxiliary Switch (AX)	Alarm Switch (AL)	Fault Alarm Switch (FAL)*
CD100-CS800	ST-T(..V)	UVT-T(..V)	AX-T	AL-T	FAL-T

Note :

1. The above accessories are common for CD100-CS800
2. FAL (Fault Alarm Switch)* It can be applied to only circuit breakers with electronic trip units
3. Shunt Trip is available in 12V DC, 24V AC/DC, 110-130V AC/DC, 250V DC & 380-500V AC
4. UVT is available in 24V AC/DC, 110-130V AC/DC, 220-240V DC & 380-440V AC & 440-480V AC
5. Maximum Possibilities for Internal Accessories

	Accessory	CD100	CS160/ 250	CS400 / 630	CS800
Left	AX	-	1	3	3
	AL	1	1	-	-
	SHT / UVT	1	1	1	1
Right	AX	2	1	-	-
	AL	-	-	1	2
	FAL	-	1	1	1



Rotary Handle			
Suitable for use on WB2 MCCBs	Direct Rotary Handle	Direct Rotary Handle with Keylock	Extended Rotary Handle
CD100	DH1-S	DHK1-S	EH1-S
CS160, CS250	DH2-S	DHK2-S	EH2-S
CS400, CS630	DH3-S	DHK3-S	EH3-S
CS800	DH4-S	DHK4-S	EH4-S



Mechanical Interlock (Used to prevent mechanically closing together)		
Suitable for use on WB2 MCCBs	Direct Rotary Handle	Direct Rotary Handle with Keylock
CD100	MIT13	MIT14
CS160, CS250	MIT23	MIT24
CS400, CS630	MIT33	MIT34
CS800	MIT44	MIT44

WiNbreak2 MCCB



Motor Operator - For remote "ON/OFF" operation only		
Suitable for MCCB Type	Control Voltage	Reference
CD100	24V DC, 100-240V AC & 100-220V DC	MOP1(..V)
CS160, CS250	24V DC, 110V AC/DC & 220V DC, 230V AC	MOP2(..V)
CS400, CS630	24V DC, 110V AC/DC & 220V DC, 230V AC	MOP3(..V)
CS800	24V DC, 110V AC/DC & 220V DC, 230V AC	MOP4(..V)

*Replace (....V) by require voltage.



Padlocking Device		
Suitable for use on WB2 MCCBs	Fixed Lock	Removable Lock
	Reference	Reference
CD100	PHL 1	PL 1
CS160, CS250	PHL 2	PL 2
CS400, CS630	PHL 3	PL 3
CS800	PHL 4	PL 4



Base for Plug-in MCCB	
Suitable for use on WB2 MCCBs	Reference (for 3 Pole)
CD100	PB13
CS160, CS250	PB23
CS400, CS630	PB33
CS800	PB43

NCT for WiNbreak2 ETM-Microprocessor (3 Pole MCCB if ground fault facility is required)

Description	Reference
160/0.1A	NCT-WB2-016
250/0.1A	NCT-WB2-025
400/0.1A	NCT-WB2-040
630/0.1A	NCT-WB2-063
800/0.1A	NCT-WB2-080

Panel Door Mounted Key Lock for Extended Rotary Handle

Suitable for WB2 MCCBs	Reference
CD100	EXTKLWB2-100AF-T1
CS160, CS250	EXTKLWB2-250AF-T1

ACE2 MCCB

- Conforms to IS/IEC 60947-2
- Ics = 100% Icu
- Range : 16A-1250A , 3P & 4P
- Breaking capacity : 36kA , 50kA & 70kA
- Positive Isolation
- Trip free mechanism
- Double contact structure
- No Line-load Bias
- Wide range of internal & external accessories
- Standard packing includes spreaders terminals, insulating phase barrier and hardware



Microprocessor Release ●LSIN protection ●Adjustable Overload 40~100% ●Neutral Protection 50% to 100%

Size	Rated Current (Amps)	Breaking Capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference	
Frame 2	40	36kA	CSCN125EM*3P	CSCN125EM*4P	
	100		CSCN125EM*3P	CSCN125EM*4P	
	125		CSCN125EM*3P	CSCN125EM*4P	
	160		CSCN250EM*3P	CSCN250EM*4P	
	200		CSCN250EM*3P	CSCN250EM*4P	
	250		CSCN250EM*3P	CSCN250EM*4P	
	40		50kA	CSCS125EM*3P	CSCS125EM*4P
	100	CSCS125EM*3P		CSCS125EM*4P	
	125	CSCS125EM*3P		CSCS125EM*4P	
	160	CSCS250EM*3P		CSCS250EM*4P	
	200	CSCS250EM*3P		CSCS250EM*4P	
	250	CSCS250EM*3P		CSCS250EM*4P	
	Frame 3	315, 350, 400		50kA	CSCS400EM*3P
		500, 630	CSCS630EM*3P		CSCS630EM*4P
Frame 2	40	70kA	CSCH125EM*3P	CSCH125EM*4P	
	100		CSCH125EM*3P	CSCH125EM*4P	
	125		CSCH125EM*3P	CSCH125EM*4P	
	160		CSCH250EM*3P	CSCH250EM*4P	
	200		CSCH250EM*3P	CSCH250EM*4P	
	250		CSCH250EM*3P	CSCH250EM*4P	
	Frame 3		315, 350, 400	70kA	CSCH400EM*3P
500, 630		CSCH630EM*3P	CSCH630EM*4P		

Microprocessor Release●LSIN protection●Adjustable Overload 40~100%●Neutral Protection 50% to 100%●Ics=50% Icu

Size	Rated Current (Amps)	Breaking Capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference
Frame 4	700, 800 ■	50kA	CSCS800EM*3P	CSCS800EM*4P
	1000 ■		CSCS1250EM*3P	CSCS1250EM*4P
	1250 ■		CSCS1250EM*3P	CSCS1250EM*4P
Frame 4	700, 800 ■	70kA	CSCH800EM*3P	CSCH800EM*4P
	1000 ■		CSCH1250EM*3P	CSCH1250EM*4P
	1250 ■		CSCH1250EM*3P	CSCH1250EM*4P

Notes :

1. While Ordering, Replace "*" by Current Rating
2. Spreader Terminal are not included for MCCBs upto 63A
3. ■ Spreader Terminal are not included.

ACE2 MCCB

FMU (Thermal Magnetic) Release ● Adjustable Overload 80-100% ● Fixed short circuit 10In				
Size	Rated Current (A)	Breaking Capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference
Frame 1	16, 20, 25, 32, 40, 50, 63	36kA	CSCN125TM*3P	CSCN125TM*4P
	80, 100		CSCN125TM*3P	CSCN125TM*4P
	125		CSCN125TM*3P	CSCN125TM*4P
Frame 1	16, 20, 25, 32, 40, 50, 63	50kA	CSCS125TM*3P	CSCS125TM*4P
	80, 100		CSCS125TM*3P	CSCS125TM*4P
	125		CSCS125TM*3P	CSCS125TM*4P

Spreader Terminal are not included for MCCBs upto 63A

A

ATU (Thermal Magnetic) Release ● Adjustable Overload 80 - 100% ● Adjustable Short circuit 5 - 10 In				
Size	Rated Current (A)	Breaking Capacity Icu at 415V AC	3 Pole Reference	4 Pole Reference
Frame 2	160	36kA	CSCN250TM*3P	CSCN250TM*4P
	200		CSCN250TM*3P	CSCN250TM*4P
	250		CSCN250TM*3P	CSCN250TM*4P
Frame 3	315, 400	36kA	CSCN400TM*3P	CSCN400TM*4P
Frame 2	160	50kA	CSCS250TM*3P	CSCS250TM*4P
	200		CSCS250TM*3P	CSCS250TM*4P
	250		CSCS250TM*3P	CSCS250TM*4P
Frame 3	315, 400	50kA	CSCS400TM*3P	CSCS400TM*4P

Accessories

Spreader Terminals



Suitable for use on MCCBs	Pole	Reference	Std Pkg. (No's)
CSCS / CSCH 800EM CSCS / CSCH 1250EM	3 Pole	CSCET6063	Set of 3
CSCS / CSCH 800EM CSCS / CSCH 1250EM	4 Pole	CSCET6114	Set of 4

Extended Rotary Handle



Size	Suitable for use on ACE2 MCCBs	3 Pole Reference	4 Pole Reference
Frame 1	CSCN / CSCS 125TM	EC-55	EC-19
Frame 2	CSCN / CSCS 250TM / CSCN / CSCS / CSCH 125EM CSCN / CSCS / CSCH 250EM	EC-56	EC-20
Frame 3	CSCN / CSCS 400TM / CSCS / CSCH 400EM CSCS / CSCH 630EM	EC-57	EC-21
Frame 4	CSCS / CSCH 800EM / CSCS / CSCH 1250EM	EC-58	EC-58

ACE2 MCCB

Internal Accessories		
Description	Suitable for use on ACE2 MCCBs	Reference
Aux Switch (AX)	CSCN / CSCS / CSCH	AXC-*
Alarm Switch (AL)	CSCN / CSCS / CSCH	ALC
* Please replace "*" with L (Left), M (Middle) & R (Right)		

Description	Suitable for use on ACE2 MCCBs	Reference			
		220V AC	380/415V AC	24V DC	110V DC
Shunt Release (SHT)	CSCN / CSCS 125TM	STC92	STC95	STC98	-
	CSCN / CSCS 250TM CSCN / CSCS 400TM CSCN / CSCS / CSCH 250EM CSCS / CSCH 400EM CSCS / CSCH 630EM	STC93	STC96	STC99	-
	CSCS / CSCH 800EM / CSCS / CSCH 1250EM	STC94	STC97	STC00	STC01
Under Voltage Trip (UVT)	CSCN / CSCS 125TM	UVTC02	UVTC05	-	-
	CSCN / CSCS 250TM CSCN / CSCS 400TM CSCN / CSCS / CSCH 250EM CSCS / CSCH 400EM CSCS / CSCH 630EM	UVTC03	UVTC06	-	-
	CSCS / CSCH 800EM CSCS / CSCH 1250EM	UVTC04	UVTC07	-	-

Maximum Possibilities of Internal Accessories				
Description	Accessory	CSC*125 / CSC*250	CSC*400 / CSC*630	CSC*800 / CSC*1250
(Left)	AX	1	3	3
	AL	1	-	-
	UVT or SHT	1	1	1
(Right)	AX	1	-	-
	AX or AL	-	1	1

INDUSTRIAL SWITCHES

- Switch Disconnecter
- Switch Disconnecter Fuse
- Bypass Switches
- Changeover Switches (with & Without Fuse)



Switch Disconnecter Fuse Unit without Fuse Links

LT Heavy Duty Switch Disconnecter Fuse Unit CSSDF 32A - 800A, 415V, 50Hz complete with Handle Assembly having Door Interlock and Padlocking arrangement

A



Rating Amps	Pole	CSSDF in Open Execution		CSSDF in Sheet Steel Enclosure		Recommended Fuse Links Type (IEC Size)	
		Reference	Reference	Reference	Reference	DIN	BS
		DIN	BS	DIN	BS		
32A	2P	CSSDF32D2	CSSDF32B2			CDFL00 (32)	CTIA-32 (A2)
	TP	CSSDF32D3	CSSDF32B3	E-CSSDF32D3	E-CSSDF32B3		
	TPN	CSSDF32D3N	CSSDF32B3N	E-CSSDF32D3N	E-CSSDF32B3N		
	4P	CSSDF32D4FN	CSSDF32B4FN	E-CSSDF32D4FN	E-CSSDF32B4FN		
63A	2P	CSSDF63D2	CSSDF63B2			CDFL00 (63)	CTIS-63 (A3)
	TP	CSSDF63D3	CSSDF63B3	E-CSSDF63D3	E-CSSDF63B3		
	TPN	CSSDF63D3N	CSSDF63B3N	E-CSSDF63D3N	E-CSSDF63B3N		
	4P	CSSDF63D4FN	CSSDF63B4FN	E-CSSDF63D4FN	E-CSSDF63B4FN		
100A	2P	CSSDF100D2	CSSDF100B2			CDFL00 (100)	CTCP-100 (A4)
	TP	CSSDF100D3	CSSDF100B3	E-CSSDF100D3	E-CSSDF100B3		
	TPN	CSSDF100D3N	CSSDF100B3N	E-CSSDF100D3N	E-CSSDF100B3N		
	4P	CSSDF100D4FN	CSSDF100B4FN	E-CSSDF100D4FN	E-CSSDF100B4FN		
125A	2P	CSSDF125D2	CSSDF125B2			CDFL00 (125)	CTCP-125 (A4)
	TP	CSSDF125D3	CSSDF125B3	E-CSSDF125D3	E-CSSDF125B3		
	TPN	CSSDF125D3N	CSSDF125B3N	E-CSSDF125D3N	E-CSSDF125B3N		
	4P	CSSDF125D4FN	CSSDF125B4FN	E-CSSDF125D4FN	E-CSSDF125B4FN		
160A	2P	CSSDF160D2	CSSDF160B2			CDFL00 (160)	CTF-160 (B2)
	TP	CSSDF160D3	CSSDF160B3	E-CSSDF160D3	E-CSSDF160B3		
	TPN	CSSDF160D3N	CSSDF160B3N	E-CSSDF160D3N	E-CSSDF160B3N		
	4P	CSSDF160D4FN	CSSDF160B4FN	E-CSSDF160D4FN	E-CSSDF160B4FN		
200A	2P	CSSDF200D2	CSSDF200B2			CDFL-1-200	CTF-200 (B2)
	TP	CSSDF200D3	CSSDF200B3	E-CSSDF200D3	E-CSSDF200B3		
	TPN	CSSDF200D3N	CSSDF200B3N	E-CSSDF200D3N	E-CSSDF200B3N		
	4P	CSSDF200D4FN	CSSDF200B4FN	E-CSSDF200D4FN	E-CSSDF200B4FN		
250A	2P	CSSDF250D2	CSSDF250B2			CDFL-1-250	CTK F-250 (B3)
	TP	CSSDF250D3	CSSDF250B3	E-CSSDF250D3	E-CSSDF250B3		
	TPN	CSSDF250D3N	CSSDF250B3N	E-CSSDF250D3N	E-CSSDF250B3N		
	4P	CSSDF250D4FN	CSSDF250B4FN	E-CSSDF250D4FN	E-CSSDF250B4FN		
315A	2P	CSSDF315D2	CSSDF315B2			CDFL-2-315	CTKF-315 (B3)
	TP	CSSDF315D3	CSSDF315B3	E-CSSDF315D3	E-CSSDF315B3		
	TPN	CSSDF315D3N	CSSDF315B3N	E-CSSDF315D3N	E-CSSDF315B3N		
	4P	CSSDF315D4FN	CSSDF315B4FN	E-CSSDF315D4FN	E-CSSDF315B4FN		
400A	2P	CSSDF400D2	CSSDF400B2			CDFL-2-400	CTMF-400 (B4)
	TP	CSSDF400D3	CSSDF400B3	E-CSSDF400D3	E-CSSDF400B3		
	TPN	CSSDF400D3N	CSSDF400B3N	E-CSSDF400D3N	E-CSSDF400B3N		
	4P	CSSDF400D4FN	CSSDF400B4FN	E-CSSDF400D4FN	E-CSSDF400B4FN		
630A	2P	CSSDF630D2	CSSDF630B2			CDFL-3-630	CTTM-630 (C2)
	TP	CSSDF630D3	CSSDF630B3	E-CSSDF630D3	E-CSSDF630B3		
	TPN	CSSDF630D3N	CSSDF630B3N	E-CSSDF630D3N	E-CSSDF630B3N		
	4P	CSSDF630D4FN	CSSDF630B4FN	E-CSSDF630D4FN	E-CSSDF630B4FN		
800A	2P	CSSDF800D2	CSSDF800B2			-	CTLM-800 (C3)
	TP	CSSDF800D3	CSSDF800B3	E-CSSDF800D3	E-CSSDF800B3		
	TPN	CSSDF800D3N	CSSDF800B3N	E-CSSDF800D3N	E-CSSDF800B3N		
	4P	CSSDF800D4FN	CSSDF800B4FN	E-CSSDF800D4FN	E-CSSDF800B4FN		

Accessories



Key Interlocks (3 Locks - 2 Keys)		
For Switch Type	Reference	
CSSDF 32A - 160A	CSSDFZW-16	
CSSDF 200A - 800A	CSSDFZW-5	
Castle Key Locks		
CSSDF 32A - 160A	CSSDFZW-15	
CSSDF 200A - 800A	CSSDFZW-4	
Auxiliary Contacts		
1 NO + 1 NC CSSDF 32A - 63A for 3P	CSSDFZX 46	
2 NO + 2 NC CSSDF 32A - 63A for 3P	CSSDFZX 32	
1 NO + 1 NC CSSDF 32A - 63A for 2P & 4P	CSSDFZX 46B	
2 NO + 2 NC CSSDF 32A - 63A for 2P & 4P	CSSDFZX 32B	
1 NO + 1 NC CSSDF 100A - 160A	CSSDFZX 1	
2 NO + 2 NC CSSDF 100A - 160A	CSSDFZX 16	
1 NO + 1 NC CSSDF 200A - 400A	CSSDFZX 33	
2 NO + 2 NC CSSDF 200A - 400A	CSSDFZX 34	
1 NO + 1 NC CSSDF 630A - 800A	CSSDFZX 35	
2 NO + 2 NC CSSDF 630A - 800A	CSSDFZX 36	
Handle Mounting Kit (for independent mounting of O/E Switches)		
CSSDF 200A - 400A	HMK-1-2	
CSSDF 630A - 800A	HMK-3-2	
Spare Handle Shaft		
CSSDF 32A-160A	CSP6x165	
CSSDF 200A-800A	CSP12x255	
Spare Neutral Links		
For Switch Type	Reference	
CSSDF 32A-63A	CSSDF ZX 87	
CSSDF 100A-160A	CSSDF ZX 86	
CSSDF 200A-400A	CSSDF ZX 85	
CSSDF 630A-800A	CSSDF ZX 88	
Spare Handle		
CSSDF 32A-160A (Moulded)	CSWH 80 S6	
CSSDF 200A-400A (Moulded)	CSWH 145 S12	
CSSDF 630A-800A (Moulded)	CSWH 220 S12	

Extended Terminals		
32A-63A	TPN	ET-323
	4P	ET-324
100A-160	TPN	ET-327
	4P	ET-328
200A-400A	TPN	ET-329
	4P	ET-330

Spare Poles		
Rating (Amps)	Reference	
	DIN	BS
32	CSSDF-SP-32D	CSSDF-SP-32B
63	CSSDF-SP-63D	CSSDF-SP-63B
100	CSSDF-SP-100D	CSSDF-SP-100B
125	CSSDF-SP-125D	CSSDF-SP-125B
160	CSSDF-SP-160D	CSSDF-SP-160B
200	CSSDF-SP-200D	CSSDF-SP-200B
250	CSSDF-SP-250D	CSSDF-SP-250B
315	CSSDF-SP-315D	CSSDF-SP-315B
400	CSSDF-SP-400D	CSSDF-SP-400B
630	CSSDF-SP-630D	CSSDF-SP-630B
800	--	CSSDF-SP-800B

A

Switch Disconnectors (Load Break Switches)

**# Moulded Pole Construction

LT Heavy Duty Load Break Switches CSSD 25A - 125A, 415V, 50Hz complete with Rotary Handle Assembly having door interlock and padlocking arrangement.

Handle colour: Red Knob and Yellow Base (standard) Black Base and Knob.



Rating Amps	Pole	CSSD In Open Execution	In Sheet Steel Enclosure
		Reference	Reference
25	3	CSSD25D3	E-CSSD25D3
	4	CSSD25D4	E-CSSD25D4
40	3	CSSD40D3	E-CSSD40D3
	4	CSSD40D4	E-CSSD40D4
63	3	CSSD63K3	E-CSSD63K3
	4	CSSD63D4	E-CSSD63D4
80	3	CSSD80D3	E-CSSD80D3
	4	CSSD80D4	E-CSSD80D4
100	3	CSSD100D3	E-CSSD100D3
	4	CSSD100D4	E-CSSD100D4
125	3	CSSD125D3	E-CSSD125D3
	4	CSSD125D4	E-CSSD125D4

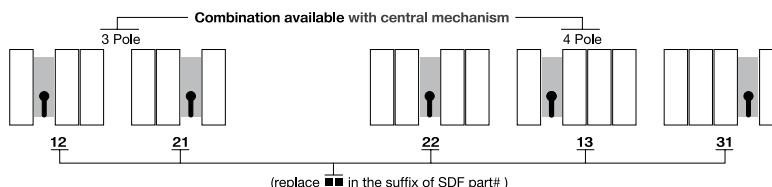
**# The above switches are available with door defeate Mechanism / Pistol grip handle.

Modular Pole construction

LT Heavy Duty Load Break Switches CSSD 125A - 3150A, 415V, 50Hz complete with Handle Assembly having door interlock and padlocking arrangement.



Rating Amps	Pole	CSSD In Open Execution	In Sheet Steel Enclosure
		Reference	Reference
125	2	CSSD125DM2	
	3	CSSD125DM3	E-CSSD125DM3
	4	CSSD125DM4	E-CSSD125DM4
160	2	CSSD160DM2	
	3	CSSD160DM3	E-CSSD160DM3
	4	CSSD160DM4	E-CSSD160DM4
200	2	CSSD200DM2	
	3	CSSD200DM3	E-CSSD200DM3
	4	CSSD200DM4	E-CSSD200DM4
250	2	CSSD250DM2	
	3	CSSD250DM3	E-CSSD250DM3
	4	CSSD250DM4	E-CSSD250DM4
315	2	CSSD315DM2	
	3	CSSD315DM3	E-CSSD315DM3
	4	CSSD315DM4	E-CSSD315DM4
400	2	CSSD400DM2	
	3	CSSD400DM3	E-CSSD400DM3
	4	CSSD400DM4	E-CSSD400DM4
630	2	CSSD630K2	
	3	CSSD630K3	E-CSSD630K3
	4	CSSD630K4	E-CSSD630K4
800	2	CSSD800K2	
	3	CSSD800K3	E-CSSD800K3
	4	CSSD800K4	E-CSSD800K4
1000	2	CSSD1000P2	
	3	CSSD1000P3	E-CSSD1000P3
	4	CSSD1000P4	E-CSSD1000P4
1250	2	CSSD1250P2	
	3	CSSD1250P3	E-CSSD1250P3
	4	CSSD1250P4	E-CSSD1250P4
1600	2	CSSD1600P2	
	3	CSSD1600P3	E-CSSD1600P3
	4	CSSD1600P4	E-CSSD1600P4
2000	3	CSSD2000P3	E-CSSD2000P3
	4	CSSD2000P4	E-CSSD2000P4
2500	3	CSSD2500P3	E-CSSD2500P3
	4	CSSD2500P4	E-CSSD2500P4
3150	3	CSSD3150P3	E-CSSD3150P3
	4	CSSD3150P4	E-CSSD3150P4



Notes: 'K' series from 1000A to 3150A in open execution is also available on special request for retrofit jobs only.

Moulded Switches



Moulded in Plastic Enclosure				
Rating Amps	Pole	Colour		Reference
		Box	Handle	
25	3	Grey	Black	EABW CSSD 25 D3
		Yellow	Red	EACL CSSD 25 D3
25	4	Grey	Black	EABW CSSD 25 D4
		Yellow	Red	EACL CSSD 25 D4
40	3	Grey	Black	EABW CSSD 40 D3
		Yellow	Red	EACL CSSD 40 D3
40	4	Grey	Black	EABW CSSD 40 D4
		Yellow	Red	EACL CSSD 40 D4
63	3	Grey	Black	EABW CSSD 63 K3
		Yellow	Red	EACL CSSD 63 K3



Moulded Switches In Aluminium Alloy Enclosure		
Rating Amps	Pole	Reference
16	3	CSSD16D3 ■
	4	CSSD16D4 ■
25	3	CSSD25D3 ■
	4	CSSD25D4 ■
30	3	CSSD30D3 ■
	4	CSSD30D4 ■
40	3	CSSD40D3 ■
	4	CSSD40D4 ■
63	3	CSSD63K3 ■
80	3	CSSD80K3 ■
100	3	CSSD100K3 ■
125	3	CSSD125K3 ■

Please replace ■ with ELCL or ELBL

ELCL - Rotary handle colour: Red Rotary Knob with Yellow base.

ELBL - Rotary handle colour: Black Rotary Knob with Grey base.



Toggle Switches (with Toggle type operating knob)		
CSSD in Open Execution		
Rating Amps	Pole	Reference
25	3	CSSD25C3
	4	CSSD25C4
40	3	CSSD40C3
	4	CSSD40C4
63	3	CSSD63C3
	4	CSSD63C4

Switch Disconnectors (Moulded construction)

Accessories

Auxiliary Contacts		
For Switch Type	Pole	Reference
1 NO+1 NC CSSD 25A-40A	3	CSSDZX 49
2 NO+2 NC CSSD 25A-40A	3	CSSDZX 50
1 NO+1 NC CSSD 25A-40A	4	CSSDZX 87
2 NO+2 NC CSSD 25A-40A	4	CSSDZX 88
1 NO+1 NC CSSD 63A	3	CSSDZX 79
2 NO+2 NC CSSD 63A	3	CSSDZX 80
1 NO+1 NC CSSD 125A	3	CSSDZX 52
2 NO+2 NC CSSD 125A	3	CSSDZX 53
1 NO+1 NC CSSD 63A-125A	4	CSSDZX 55
2 NO+2 NC CSSD 63A-125A	4	CSSDZX 56

SPARES

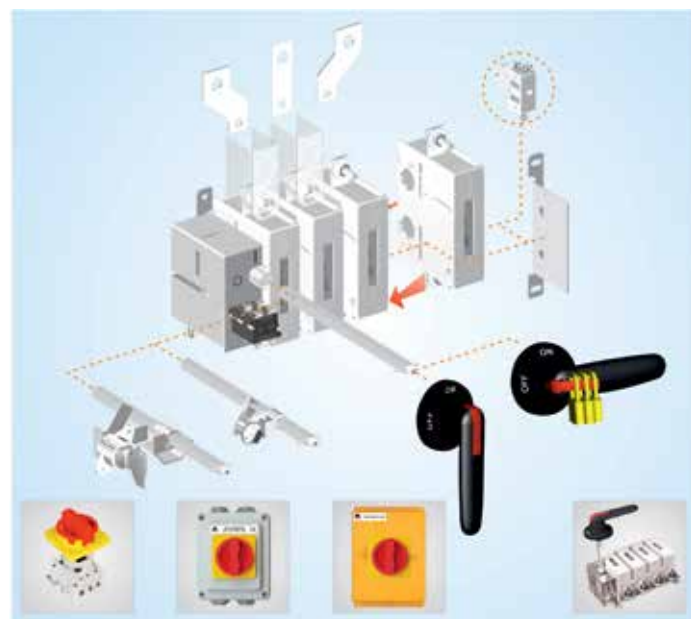
Extended Terminals		
Rating (Amps)	Pole	Reference
125	TPN	ET-325
	4	ET-326

Rotary Knob Handles	
For Switch Type	Reference
CSSD 25A-125A (Moulded-Red/Yellow)	CSSDZX108
CSSD 25A-125A (Moulded-Black)	CSSDZX111BL

Spare Handle Shaft	
For Switch Type	Reference
CSSD 25A-125A	CSP5X70

Door Mounting Kit (for mounting Switch on door instead of base plate)	
For Switch Type	Reference
CSSD 25A-63A	DMK1
CSSD 100A-125A	DMK2/3

Note: Key & Castle Locks are available on request.



Notes: 'K' series from 1000A to 3150A in open execution is also available on special request for retrofit jobs only.

Auxiliary Contacts		
For Switch Type	Pole	Reference
1 NO+1 NC CSSD 125A-160A (Compact)	3/4	CSSDZX 1
2 NO+2 NC CSSD 125A-160A (Compact)	3/4	CSSDZX 16
1 NO+1 NC CSSD 200A-315A (Compact)	3/4	CSSDZX 37
2 NO+2 NC CSSD 200A-315A (Compact)	3/4	CSSDZX 38
1 NO+1 NC CSSD 200A-800A	3/4	CSSDZX 33
2 NO+2 NC CSSD 200A-800A	3/4	CSSDZX 34
1 NO+1 NC CSSD 1000A-3150A	3/4	CSSDZX 35
2 NO+2 NC CSSD 1000A-3150A	3/4	CSSDZX 36

Key Interlocks (3 Locks - 2 Keys)	
For Switch Type	Reference
CSSD 125A-160A	CSSDZW - 16
CSSD 200A-3150A	CSSDZW - 5

Castle Key Locks	
For Switch Type	Reference
CSSD 25A-160A	CSSDZW - 15
CSSD 200A-3150A	CSSDZW - 4

Handle Mounting Kit (for independent mounting of O/E Switches)	
For Switch Type	Reference
CSSD 200A-315A (Compact Series)	HMK-2
CSSD 200A-800A	HMK-1-1
CSSD 1000A-1800A	HMK-3-1

SPARES

Switch Handles	
For Switch Type	Reference
CSSD 200A-800A (Moulded)	CSWH 145 S12
CSSD 1000A-1800A (Moulded)	CSWH 220 S12
CSSD 2500A-3150A (Moulded)	CSWH 220 S12
CSSD 2500A-3150A (Metallic)	CSDA8
CSSD 125A-160A (Compact) (Moulded)	CSWH 80 S6
CSSD 200A-315A (Compact) (Moulded)	CSWH80 S8

Switch Handle Shaft	
For Switch Type	Reference
CSSD 125A-160A (Compact)	CAP6X165
CSSD 200A-315A (Compact)	CSP8X240
CSSD 200A-1800A	CSP12X255
CSSD 2500A-3150A	CSP12X325

Switch Poles	
For Switch Type	Reference
125A (Compact)	CSSD-SP-125DM
160A (Compact)	CSSD-SP-160DM
200A (Compact)	CSSD-SP-200DM
250A (Compact)	CSSD-SP-250DM
315A (Compact)	CSSD-SP-315DM
400A	CSSD-SP400K
630A	CSSD-SP630K
800A	CSSD-SP800K
1000A	CSSD-SP1000P
1250A	CSSD-SP1250P
1600A	CSSD-SP1600P
1800A	CSSD-SP1800P

Extended Terminals for Switch Disconnectors		
For Switch Type	Pole	Reference
125-160 (Compact)	TPN	ET-327
	4P	ET-328
200-400	TPN	ET-329
	4P	ET-330

Switch Disconnectors (Load Break Switches)

- Conforms to IS/IEC 60947-3
- Range 125A-250A 415V 50Hz
- Compact Construction
- Door Interlock and Padlock facility
- Version: TP / 4P
- Positive isolation



Switch Disconnector with Padlocking				
Frame	Rating Amps	Pole	CSSD In Open Execution	In Sheet Steel Enclosure
			Reference	Reference
Fr1 (NM)	125	3	CSSD125NM3	E-CSSD125NM3
		4	CSSD125NM4	E-CSSD125NM4
Fr1 (NM)	160	3	CSSD160NM3	E-CSSD160NM3
		4	CSSD160NM4	E-CSSD160NM4
Fr1 (NM)	200	3	CSSD200NM3	E-CSSD200NM3
		4	CSSD200NM4	E-CSSD200NM4
Fr1 (NM)	250	3	CSSD250NM3	E-CSSD250NM3
		4	CSSD250NM4	E-CSSD250NM4

Switch Disconnector with Detachable Handle			
Frame	Rating Amps	Pole	CSSD In Open Execution
			Reference
Fr1 (NM)	125	3	CSSD125NM3-D
		4	CSSD125NM4-D
Fr1 (NM)	160	3	CSSD160NM3-D
		4	CSSD160NM4-D
Fr1 (NM)	200	3	CSSD200NM3-D
		4	CSSD200NM4-D
Fr1 (NM)	250	3	CSSD250NM3-D
		4	CSSD250NM4-D

Note: Rotary Handle with door defeat Mechanism / Pistol grip handle is available only for 25-63A.

On Load Changeover Switches

- Conforms to IS/IEC 60947-3
- Range: 63A–3150A, 415V, 50Hz
- Version: 4P
- Modular construction
- Positive Isolation
- Door Interlock and Padlock facility ■



In Open Execution				
	Size	Rating (Amps)	Pole	Reference
NM-Series	Frame 1	63	4	CSCS63NM4CO*
	Frame 1	100	4	CSCS100NM4CO*
	Frame 2	125	4	CSCS125NM4CO
	Frame 2	160	4	CSCS160NM4CO
	Frame 2	200	4	CSCS200NM4CO
	Frame 2	250	4	CSCS250NM4CO
DM-Series	Frame 2	315	4	CSCS315DM4CO
	Frame 2	400	4	CSCS400DM4CO
K-Series	Frame 3	630	4	CSCS630K4CO
	Frame 3	800	4	CSCS800K4CO
P-Series	Frame 4	1000	4	CSCS1000P4CO
	Frame 4	1250	4	CSCS1250P4CO
	Frame 4	1600	4	CSCS1600P4CO
	Frame 5	2000	4	CSCS2000P4CO
	Frame 5	2500	4	☒ CSCS2500P4CO
	Frame 5	3150	4	☒ CSCS3150P4CO

In Sheet Steel Enclosure				
	Size	Rating (Amps)	Pole	Reference
NM-Series	Frame 1	63	4	E-CSCS63NM4CO
	Frame 1	100	4	E-CSCS100NM4CO
	Frame 2	125	4	E-CSCS125NM4CO
	Frame 2	160	4	E-CSCS160NM4CO
	Frame 2	200	4	E-CSCS200NM4CO
	Frame 2	250	4	E-CSCS250NM4CO
DM-Series	Frame 2	315	4	E-CSCS315DM4CO
	Frame 2	400	4	E-CSCS400DM4CO
K-Series	Frame 3	630	4	E-CSCS630K4CO
	Frame 3	800	4	E-CSCS800K4CO
P-Series	Frame 4	1000	4	E-CSCS1000P4CO
	Frame 4	1250	4	E-CSCS1250P4CO
	Frame 4	1600	4	E-CSCS1600P4CO
	Frame 5	2000	4	E-CSCS2000P4CO
	Frame 5	2500	4	☒ E-CSCS2500P4CO
	Frame 5	3150	4	☒ E-CSCS3150P4CO

Notes:

'K' series from 1000A to 1600A in open execution is also available on special request for retrofit orders only.

■ Upto 800A

- Bigger size enclosure available upto 1600A

On Load Changeover Switches (Available for retrofit orders only)				
	Size	Rating (Amps)	Pole	Reference
DM-Series	Frame 1	63	4	CSCS63DM4CO
	Frame 1	80	4	CSCS80DM4CO
	Frame 1	100	4	CSCS100DM4CO
	Frame 1	125	4	CSCS125DM4CO
	Frame 1	160	4	CSCS160DM4CO
	Frame 2	200	4	CSCS200DM4CO
	Frame 2	250	4	CSCS250DM4CO

On Load Changeover Switches (Available for retrofit orders only)				
	Size	Rating (Amps)	Pole	Reference
DM-Series	Frame 1	63	4	E-CSCS63DM4CO
	Frame 1	80	4	E-CSCS80DM4CO
	Frame 1	100	4	E-CSCS100DM4CO
	Frame 1	125	4	E-CSCS125DM4CO
	Frame 1	160	4	E-CSCS160DM4CO
	Frame 2	200	4	E-CSCS200DM4CO
	Frame 2	250	4	E-CSCS250DM4CO

ACCESSORIES	
Auxiliary Contacts for NM Type Changeover	
Description	Reference
1NO +1NC for 63-100A#	CSCONM1AUX 10
1NO +1NC for 125-250A	CSCONM2AUX 10
# Factory fitted only.	
Direct handle Mounting Kit for NM Type Changeover	
Rating (Amps)	Reference
63-100A	CSCONM1HMB
125-250A	CSCONM2HMB
Switch Handle Shaft for NM Type Changeover	
63-100A	CSPNM18X80
125-250A	CSPNM28X110
Handle Sub Assembly for NM Type Changeover	
63-100A	CSCONM1 H 80 S8
125-250A	CSCONM2 H 145 S8

Spare Poles		
Rating (Amps)	Type	Reference
63	CSCS/CSBS	CSSD-SP-63DM
80	CSCS/CSBS	CSSD-SP-80DM
100	CSCS/CSBS	CSSD-SP-100DM
125	CSCS/CSBS/CSCF	CSSD-SP-125DM
160	CSCS/CSBS/CSCF	CSSD-SP-160DM
200	CSCS/CSBS/CSCF	CSSD-SP200DM
250	CSCS/CSBS/CSCF	CSSD-SP250DM
315	CSCS/CSBS/CSCF	CSSD-SP315DM
400	CSCS/CSBS/CSCF	CSCS-SP400K
630	CSCS/CSBS/CSCF	CSCS-SP630K
800	CSCS/CSBS/CSCF	CSCS-SP800K
1000	CSCS/CSBS	CSCS-SP1000P
1250	CSCS/CSBS	CSCS-SP1250P
1600	CSCS/CSBS	CSCS-SP1600P
1800	CSCS/CSBS	CSCS-SP1800P

Accessories for Changeover -Type DM/K/P

Auxiliary Contacts			
Contacts Configuration	For Switch Type	Qty./Switch	Reference
1NO+1NC	CSCS/SBS 63A-160A Upper CSCF 125A-160A	1	CSCSZX1-U
1NO+1NC	CSCS/SBS 63A-160A Lower CSCF 125A-160A	1	CSCSZX1-L
2NO+2NC	CSCS/SBS 63A-160A Upper CSCF 125A-160A	1	CSCSZX3-U
2NO+2NC	CSCS/SBS 63A-160A Lower CSCF 125A-160A	1	CSCSZX3-L
1NO+1NC	CSCS/BS 200A-1800A CSCF 200A-800A	2	CSCSZX2
2NO+2NC	CSCS/BS 200A-1800A CSCF 200A-800A	2	CSCSZX4

Notes : If changeovers switch is required with Auxiliary contacts, please order the same separately.

Spare Handle	
Rating (Amps)	Reference
CSCS/CSBS 63-315A/CSCF125-315A	CCOH 145 S8
CSCS/CSBS 400A-1800A/CSCF400-800A	CCOH 220 S12
CSCS 2000A-3150A (Metallic)	CSDA6

Spare Handle Shaft	
Type	Reference
CSCS 63-315A, CSBS 63-315A, CSCF125-315A	CSP8X200
CSCS 400A-1800A	CSP12X205
CSCS 2000A-3150A, CSBS 400A-1800A, CSCF 400A-1800A	CSP12X305

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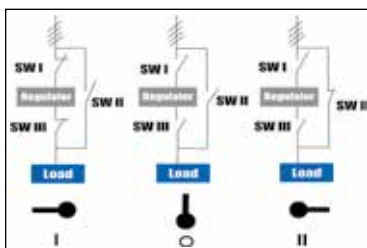
Bypass Switches

LT By Pass Switch complete with Handle Assembly having Door Interlock and Padlocking arrangement.

In Open Execution		
Rating (Amps)	Pole	Reference
63	4	CSBS63DM4
80	4	CSBS80DM4
100	4	CSBS100DM4
125	4	CSBS125DM4
160	4	CSBS160DM4
200	4	CSBS200DM4
250	4	CSBS250DM4
315	4	CSBS315DM4
400	4	CSBS400K4
630	4	CSBS630K4
800	4	CSBS800K4
1000	4	CSBS1000P4
1250	4	CSBS1250P4
1600	4	CSBS1600P4
1800	4	CSBS1800P4

In Sheet Steel Enclosure		
Rating (Amps)	Pole	Reference
63	4	E-CSBS63DM4
80	4	E-CSBS80DM4
100	4	E-CSBS100DM4
125	4	E-CSBS125DM4
160	4	E-CSBS160DM4
200	4	E-CSBS200DM4
250	4	E-CSBS250DM4
315	4	E-CSBS315DM4
400	4	E-CSBS400K4
630	4	E-CSBS630K4
800	4	E-CSBS800K4
1000	4	E-CSBS1000P4
1250	4	E-CSBS1250P4
1600	4	E-CSBS1600P4
1800	4	E-CSBS1800P4

Notes: 'K' series from 1000A to 1600A in open execution is also available on special request for retrofit jobs only.



Bypass Switch application

Table of Operation

Handle	Switch-I	Switch-II	Switch-III	Remarks
Position-I	ON	OFF	ON	Regulated Supply to Load
Position-O	OFF	OFF	OFF	No Supply, Load as well as Regulator Isolated form incoming source
Position-II	OFF	ON	OFF	Direct Supply, Regulator By-passed & Isolated

Switch Disconnecter Fuse Changeover

LT Switch Disconnecter Fuse Changeover complete with Handle Assembly having Door Interlock and Padlocking arrangement without fuses.

4 Pole in Open Execution		
Rating (Amps)	Recommended Fuse Links Type (IEC Size) BS	Reference
125	CTF-125(B2)	CSCF125B4CO
160	CTF-160(B2)	CSCF160B4CO
200	CTF-200(B2)	CSCF200B4CO
250	CTKF-250(B3)	CSCF250B4CO
315	CTKF-315(B3)	CSCF315B4CO
400	CTMF-400(B4)	CSCF400B4CO
630	CTTM-630(C2)	CSCF630B4CO
800	CTLM-800(C3)	CSCF800B4CO

4 Pole in Sheet Steel Enclosure		
Rating (Amps)	Recommended Fuse Links Type (IEC Size) BS	Reference
125	CTF-125(B2)	E-CSCF125B4CO
160	CTF-160(B2)	E-CSCF160B4CO
200	CTF-200(B2)	E-CSCF200B4CO
250	CTKF-250(B3)	E-CSCF250B4CO
315	CTKF-315(B3)	E-CSCF315B4CO
400	CTMF-400(B4)	E-CSCF400B4CO
630	CTTM-630(C2)	E-CSCF630B4CO
800	CTLM-800(C3)	E-CSCF800B4CO

Switch Disconnecter Fuse Changeover

Conventional Type (Side-by-Side)

LT Heavy Duty 4 Pole Changeover Switch Disconnecter Fuse unit comprising of two Switches, 32A - 800A, 415V, 50Hz mounted on common chassis complete with Mechanical Interlock and Handle Assembly having Door Interlock & Padlocking arrangements (without Fuses)



CSSDF in Open Execution, 4 Pole		
Rating (Amps)	Reference	
	DIN	BIS
32	CSSDF32D4CO	CSSDF32B4CO
63	CSSDF63D4CO	CSSDF63B4CO
100	CSSDF100D4CO	CSSDF100B4CO
125	CSSDF125D4CO	CSSDF125B4CO
160	CSSDF160D4CO	CSSDF160B4CO
200	CSSDF200D4CO	CSSDF200B4CO
250	CSSDF250D4CO	CSSDF250B4CO
315	CSSDF315D4CO	CSSDF315B4CO
400	CSSDF400D4CO	CSSDF400B4CO
630	CSSDF630D4CO	CSSDF630B4CO
800	-	CSSDF800B4CO

Load Break Changeover

- Conventional Type (Side-by-Side)

LT Heavy Duty 4 Pole Changeover Load Break Switch comprising of two Switches 25A - 3150A, 415V, 50Hz mounted on common chassis complete with Mechanical Interlock and Handle Assembly having Door Interlock and Padlocking arrangements.



CSSD in Open Execution, 4 Pole	
Rating (Amps)	Reference
25	CSSD25D4CO
40	CSSD40D4CO
63	CSSD63D4CO
125	CSSD125DM4CO
200	CSSD200DM4CO
250	CSSD250DM4CO
400	CSSD400K4CO
630	CSSD630K4CO
800	CSSD800K4CO
1000	CSSD1000P4CO
1250	CSSD1250P4CO
1600	CSSD1600P4CO
1800	CSSD1800P4CO
2500	CSSD2500P4CO
3150	CSSD3150P4CO

Note:

- Shorting Links/Busbars not provides with open execution in conventional type Changeover Switches.
- 'K' series from 1000A to 3150A in open execution is also available on special request for retrofit jobs only.

Off-load Changeover Switch



Rating (Amps)	Pole	Rated Voltage	Reference
16	2	250 V	CSCSOF16CO2
32	2	250 V	CSCSOF32CO2
63	2	250 V	CSCSOF63CO2
32	4	415 V	CSCSOF32CO4
63	4	415 V	CSCSOF63CO4
100	4	415 V	CSCSOF100CO4
200	4	415 V	CSCSOF200CO4
315	4	415 V	CSCSOF315CO4
400	4	415 V	CSCSOF400CO4

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Accessories - Changeover Switches (CSSDF)

Spare Handles	
For Switch Type	Reference
CSSDF 32A-160A (Moulded)	CCOH 90 S6
CSSDF 200A-400A (Moulded)	CCOH 220 S12
CSSDF 630A-800A (Metallic)	CSDA6

Operating Mechanism	
For Switch Type	Reference
CSSDF 32A-160A	CSSDFZW1
CSSDF 200A-400A	CSSDZW12/1
CSSDF 630A-800A	CSSDZW12

Accessories - Changeover Switch (CSSD)

Spare Handles	
For Switch Type	Reference
CSSD 25A-125A (Moulded)	CCOH 90 S6
CSSD 200A-800A (Moulded)	CCOH 220 S12
CSSD 1000A-3150A (Metallic)	CSDA6

Operating Mechanism	
For Switch Type	Reference
CSSD 25A - 40A	CSSDZW6
CSSD 63A - 125A	CSSDZW6/1
CSSD 200A - 800A	CSSDZW11
CSSD 1000A - 3150A	CSSDZW12

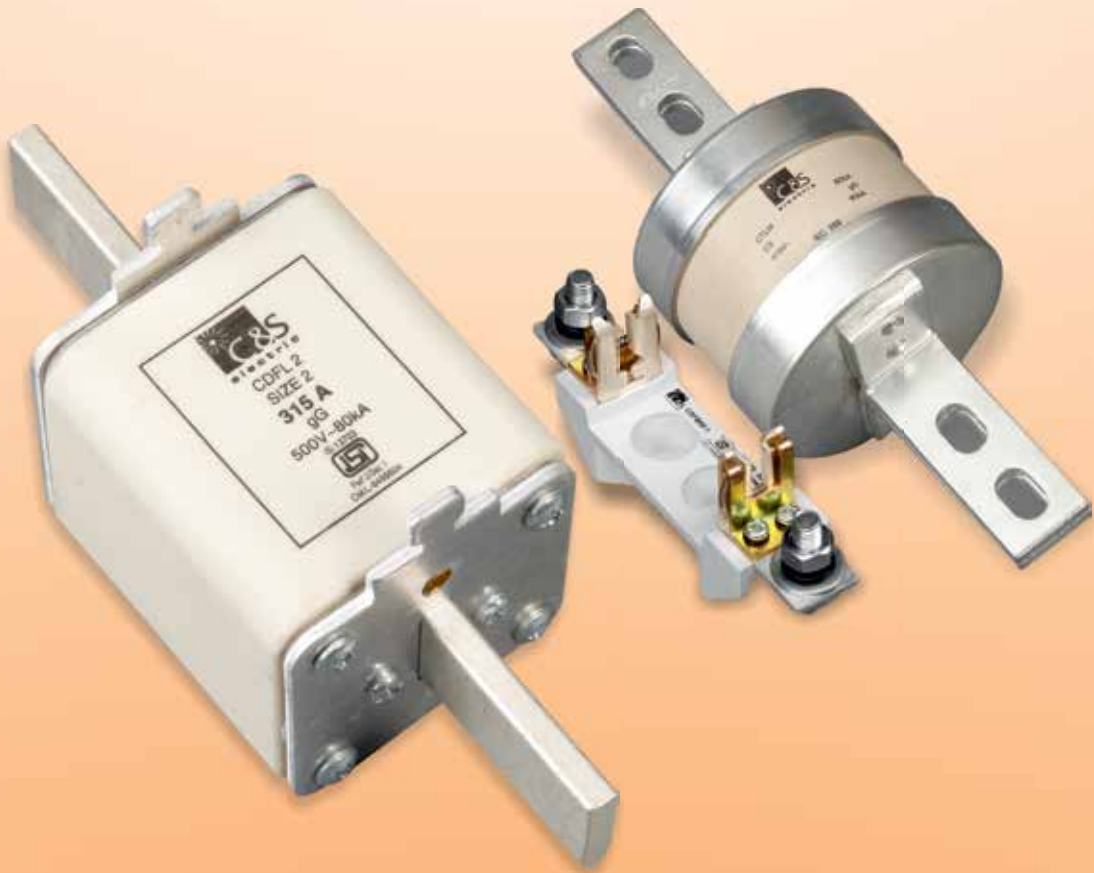
Switch Fuse Unit: Rewirable with Side Handle			
Rating (Amps)	Pole	Rated Voltage	Reference
16	SPN	240V	CSRW16P1NS
32	SPN	240V	CSRW32P1NS
16	DP	240V	CSRW16P2S
32	DP	240V	CSRW32P2S
32	TPN	415V	CSRW32P3NS
63	TPN	415V	CSRW63P3NS
100	TPN	415V	CSRW100P3NS
200	TPN	415V	CSRW200P3NS

Switch Fuse Unit: Rewirable with Front Handle			
Rating (Amps)	Pole	Rated Voltage	Reference
32	TPN	415V	CSRW32P3NF
63	TPN	415V	CSRW63P3NF
100	TPN	415V	CSRW100P3NF



HRC FUSES

- HRC Fuse Link
- HRC Fuse Base
- HRC Fuse Holder



HRC Fuse Link, Fuse Base & Fuse Holder

Range 2A-800A

- Conforms to IEC 60269-2 / IS 13703-2
- Type: DIN type (6-630A) Bolted type (2-800A)
- High breaking capacity: 80kA

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DIN Type HRC Fuse Link			
IEC Size	In A	Reference	Std. Pkg. (Nos.)
00	6	CDFL006	3
	10	CDFL0010	
	16	CDFL0016	
	20	CDFL0020	
	25	CDFL0025	
	32	CDFL0032	
	35	CDFL0035	
1	32	CDFL01 32	
	35	CDFL01 35	
	50	CDFL01 50	
	63	CDFL01 63	
	80	CDFL01 80	
	100	CDFL01 100	
	125	CDFL01 125	
	160	CDFL01 160	
	200	CSDFL1 200	
2	250	CSDFL1 250	
	100	CDFL02 100	
	125	CDFL 02 125	
	160	CDFL 02 160	
	200	CDFL 02 200	
	250	CDFL 02 250	
3	315	CSDFL2 315	
	400	CSDFL2 400	
	315	CDFL03 315	
3	400	CDFL03 400	
	500	CDFL3 500	
	630	CDFL3 630	

Fuse Bases for DIN Type Fuse Link				
IEC Size	In A	Reference	Reference*	Std. Pkg. (Nos.)
00	160	CDFB00-T	CDFB00	3
1	250	CDFB1-T	CDFB1	
2	400	CDFB2-T	CDFB2	
3	630	-	CDFB3	

- * ISI Mark
- * HRC Fuse are also available in glazed body. (UL approved)
- * HRC Fuse Base also available in glazed body.



Solid Link			
IEC Size	In A	Reference	Std. Pkg. (Nos.)
00	160	CDSL00	3
1	250	CDSL1	
2	400	CDSL2	
3	630	CDSL3	

HRC Fuse Link, Fuse Base & Fuse Holder



DIN Type HRC Fuse Links (with ISI mark)			
IEC Size	In A	Reference	Std. Pkg. (Nos.)
00	40	CDFL00 40	3
	50	CDFL00 50	
	63	CDFL00 63	
	80	CDFL00 80	
	100	CDFL00 100	
	125	CDFL00 125	
	160	CDFL00 160	
1	32	CDFL1 32	
	50	CDFL1 50	
	63	CDFL1 63	
	80	CDFL1 80	
	100	CDFL1 100	
	125	CDFL1 125	
	160	CDFL1 160	
	200	CDFL1200	
2	250	CDFL1250	
	100	CDFL2 100	
	125	CDFL2 125	
	160	CDFL2 160	
	200	CDFL2 200	
	250	CDFL2 250	
	315	CDFL2 315	
400	CDFL2 400		

Bolted Type HRC Fuse Link



Off Set TAG Type			
IEC Size	Rating (Amps)	Reference	Std. Pkg. (Nos.)
A1	2, 4, 6, 8, 10, 12 & 16	CNIT	20
A1	20, 25, & 32	CNIT	
A2	4, 6, 10, 16, 20, 25 & 32	CTIA*	10
A3	32, 40, 50 & 63	CTIS*	
A4	50	CTCP 50	
A4	63	CTCP 63	6
A4	80	CTCP 80	
A4	100	CTCP 100	
A4	125	CTCP 125	
-	125	CTFP 125	3
-	160	CTFP 160	
-	200	CTFP 200	

* "ISI" marked

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HRC Fuse Link, Fuse Base & Fuse Holder

CNS (Off Set) clip in Type			
IEC Size	In A	Reference	Std. Pkg. (Nos.)
F1	2, 4, 6, 8, 10, 12 & 16	CNS	20
F1	20, 25 & 32	CNS	20



Central TAG (4 hole fixing) Type			
IEC Size	In A	Reference	Std. Pkg. (Nos.)
C1	355	CTM 355	1
C1	400	CTM 400	
C2	450	CTTM 450	
C2	500	CTTM 500	
C2	630	CTTM 630	
C3	670	CTLM 670	
C3	710	CTLM 710	
C3	750	CTLM 750	
C3	800	CTLM 800	



Central TAG (2 hole fixing) Type			
IEC Size	In A	Reference	Std. Pkg. (Nos.)
B1	80	CTC 80	6
B1	100	CTC 100	
B1	125	CTC 125	3
B2	125	CTF 125	
B2	160	CTF 160	
B2	200	CTF 200	1
B3	250	CTKF 250	
B3	300	CTKF 300	
B3	315	CTKF 315	
B4	355	CTMF 355	
B4	400	CTMF 400	



Cylindrical HRC Fuse Link			
IEC Size	In A	Reference	Std. Pkg. (Nos.)
(14*51)	2, 4, 6, 8 & 10	CHF	1
(14*51)	16, 20 & 25	CHF	
(14*51)	32 & 40	CHF	
(14*51)	50	CHF	
(14*51)	63	CHF	
(10*38)	2, 4, 6, 8, 10 & 16	CGF	
(10*38)	20 & 25	CGF	
(10*38)	32	CGF	



HRC Fuse Holder for Bolted Type Fuse Link			
IEC Size	In A	Reference	Std. Pkg. (Nos.)
F1	20	CNS20H*	10
F1	32	CNS32H	
A2	32	CSM32H*	5
A3	63	CSM63H*	
A4	100	CSM100H	3
A4	100	CSM100B	

* ISI Mark

HRC Fuse Link, Fuse Base & Fuse Holder

Fuse Holder for Cylindrical HRC Fuse Link			
IEC Size	In A	Reference	Std. Pkg. (Nos.)
14 x 51	32	CHO32R	10
14 x 51	63	CHC63R	



Fuse Puller	
Reference	Std. Pkg. (Nos.)
CDFH 003	10

Porcelain Rewirable Fuse Holder (Kit-Kat)			
Reference	Rating (Amps)	Fuse Wire Size (Max.)	Std. Pkg.
CSKTRW32	32	22SWG	3
CSKTRW63	63	18SWG	
CSKTRW100	100	14SWG	
CSKTRW200	200	2 X 14SWG	





Power Control Components



- MPCBs
- Power Contactors
- Mini Contactors
- Overload Relays
- Industrial Plugs & Sockets
- Control & Signalling Devices
- Motor Starters - Industrial & Agri



Motor Protection Circuit Breaker

- Conforms to IEC60947-2; IS 13947-2
- Wide range 0.1A~100A, #3 frame size, #22 relay range variants
- Breaking capacity Icu = Ics upto 100kA
- Common accessories



Mini Contactor

- Conforms IEC 60947-4-1; IS/IEC 60947-4-1
- Wide range 9A~16A, 3P
- Control relays in AC & DC coil
- Common add-on accessories
- Overload relays 0.1A~16A



robustTa2 Contactor

- Conforms IEC 60947-4-1; IS/IEC 60947-4-1
- Wide range 7A~38A, AC3, 3P, 45mm width
- In-built 1 NO+1 NC auxiliary contacts
- Common add-On accessories
- Overload relay 0.1~38A



robustTa Contactor

- Conforms IEC 60947-4-1; IS/IEC 60947-4-1
- Wide range 9A~860A, 3 & 4P, Control relays
- Common add-on accessories
- Overload relays range 0.1A~1000A



Capacitor Duty Contactor

- Conforms IEC 60947-4-1; IS/IEC 60947-4-1
- Ratings: 5kVAR ~ 100kVAR
- Wide range 415V AC, 3 Pole
- AC -6b utilization category
- Range AC coil options 50/60Hz



Definite Purpose Contactors

- Rating 20A, 25A, 30A & 40A in 1P, 2P & 3P variants
- Electrical life : 200,000 operations
- Ambient air temperature: 40° to + 65° C
- Ambient air dampness around the device: 45 to 85% RH
- Coil voltage: 80% - 110% of rate voltage

2P & 4P Contactors

2 Pole Contactor

- Range 20, 25 & 40A AC3
- Extra wide band Coil
- Add on block

4 Pole Contactor

- Range 20, 25 & 40A AC3
- Extra wide band coil
- Mechanical interlock & add-on block



Motor Starters

Industrial Motor Starters

- Conforms to IS 13947-4-1
- DOL Starter 3 Phase: 0.50~60HP
- Reversing DOL Starter 3 Phase: 0.5~20HP
- Star Delta Starter 3 Phase: 7.5~350HP

Custom built Starter

- Smart Star Delta Starter 3 Phase: 20~ 150HP
- Intelligent Star Delta Starter 3 Phase: 40~ 350HP
- Intelligent Auto Transformer Starter 3 Phase: 40~ 350HP

Agri Motor Starters

- Conforms to IS 13947-4-1
- DOL Starter: 1~15HP
- Auto Start DOL Starter: 1~15HP
- 1Ø DOL Starter: 0.5~3HP
- Automatic Star Delta Starter: 7.5~25 HP
- Submersible Pump Starters: upto 50HP
- 1Ø Submersible Pump Starter: 0.5~5HP



Industrial Plug & Sockets

- IEC 60309 series Industrial Plugs & Sockets
- 3 Pin 16A, 32A & 63A, 240V AC IP44 & 67
- 5 Pin 16A, 32A, 63A & 125A, 415V AC IP44 & 67
- 3, 5 Pin 16A & 32A, 240/415V AC Interlocked Sockets
- AC Distribution box with socket 16A, 32A & 63A IP40



Control & Signalling Devices

(Metallic & Polycarbonate Series)

- Conforms to IEC 60947-5-1; IS 13947-5-1
- Wide range ϕ 22.5mm
- Pilot Lamps - LED
- Push Button Stations Range; 1, 2, 3 & 4 ways; IP-65 IP 65 / 66; NEMA 4 / 4X



Motor Protection Circuit Breaker

Conforming IS13947-2 : IEC60947-2

TCMS-Model - Thermal Magnetic

- Adjustable thermal release
- Trip class 10
- Phase failure protection
- Magnetic release 13 X Ie Max.
- Ambient temperature compensation



Type / Frame	Power Rating 3-PhMotors AC3-duty 415V, 50Hz		Adjustable range (Amp)	Breaking Capacity 415V, 50Hz	Reference	Breaking Capacity 415V, 50Hz	Reference
	Kw	HP					
32AF	0.02		0.1~0.16	100	TCMS-32S-0.16	100	TCMS-32H-0.16
	0.06		0.16~0.25	100	TCMS-32S-0.25	100	TCMS-32H-0.25
	0.09		0.25~0.4	100	TCMS-32S-0.4	100	TCMS-32H-0.4
	0.12		0.4~0.63	100	TCMS-32S-0.63	100	TCMS-32H-0.63
	0.25	0.5	0.63~1	100	TCMS-32S-1	100	TCMS-32H-1
	0.55	0.75	1~1.6	100	TCMS-32S-1.6	100	TCMS-32H-1.6
	0.75	1.5	1.6~2.5	100	TCMS-32S-2.5	100	TCMS-32H-2.5
	1.5	2	2.5~4	100	TCMS-32S-4	100	TCMS-32H-4
	2.2	5	4~6	100	TCMS-32S-6	100	TCMS-32H-6
	3	5	5~8	100	TCMS-32S-8	100	TCMS-32H-8
	4	7.5	6~10	50	TCMS-32S-10	100	TCMS-32H-10
	5.5	7.5	9~13	50	TCMS-32S-13	100	TCMS-32H-13
	7.5	10	11~17	20	TCMS-32S-17	50	TCMS-32H-17
	7.5	15	14~22	15	TCMS-32S-22	50	TCMS-32H-22
11	15	18~26	15	TCMS-32S-26	50	TCMS-32H-26	
15	20	22~32	15	TCMS-32S-32	50	TCMS-32H-32	
63AF	18.5	30	28~40			50	TCMS-63H-40
	22	40	34~50			50	TCMS-63H-50
	30	50	45~63			50	TCMS-63H-63
100AF	37	60	55~75			75	TCMS-100H-75
	45	75	70~90			75	TCMS-100H-90
	45	75	80~100			75	TCMS-100H-100

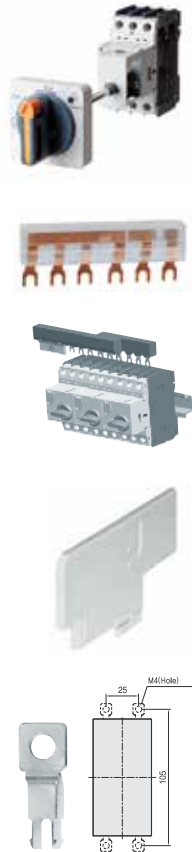
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TCMS-Model - Magnetic (Short circuit protection only)

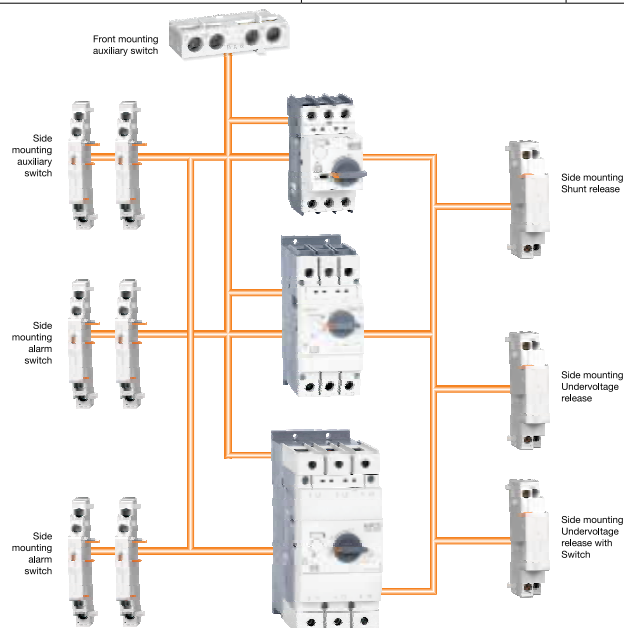
- Without thermal release
- Magnetic release 13 X Ie Max.

Frame	Breaking Capacity at 415V, 50Hz	Power Rating 3-Ph Motors AC3 duty 415V, 50Hz		Rated Operational Current Ie (A)	Reference
		KW	HP		
32AF	100	0.02		0.16	TCMS-32HI-0.16
	100	0.06		0.25	TCMS-32HI-0.25
	100	0.09		0.4	TCMS-32HI-0.4
	100	0.12		0.63	TCMS-32HI-0.63
	100	0.25	0.5	1	TCMS-32HI-1
	100	0.55	0.75	1.6	TCMS-32HI-1.6
	100	0.75	1.5	2.5	TCMS-32HI-2.5
	100	1.5	2	4	TCMS-32HI-4
	100	2.2	5	6	TCMS-32HI-6
	100	3	5	8	TCMS-32HI-8
	100	4	7.5	10	TCMS-32HI-10
	100	5.5	7.5	13	TCMS-32HI-13
	50	7.5	10	17	TCMS-32HI-17
	50	7.5	15	22	TCMS-32HI-22
	50	11	15	26	TCMS-32HI-26
	50	15	20	32	TCMS-32HI-32
63AF	50	18.5	30	40	TCMS-63HI-40
	50	22	40	50	TCMS-63HI-50
	50	30	50	63	TCMS-63HI-63
100AF	75	37	60	75	TCMS-100HI-75
	75	45	75	90	TCMS-100HI-90
	75	45	75	100	TCMS-100HI-100

Accessories



Description	Configuration	Model
Auxiliary switch for front mounting	1NO+1NC	TFX11
	2NC	TFX02
	2NO	TFX20
Auxiliary switch for front side mounting on the left	1NO+1NC	TLX11
	2NC	TLX02
	2NO	TLX20
Any trip alarm switch for side mounting on the left	1NO+1NC	TLA11
	2NC	TLA02
	2NO	TLA20
Magnetic trip alarm switch for side mounting on the left		TLAM11
Shunt release for side mounting on the right	110~127V/50Hz	TRS110~127V50Hz
	220~230V/50Hz	TRS220~230V50Hz
	415~440V/50Hz	TRS415~440V50Hz
Undervoltage release for side mounting on the right	110~127V/50Hz	TRU110~127V50Hz
	220~230V/50Hz	TRU220~230V50Hz
	415~440V/50Hz	TRU415~440V50Hz
Undervoltage release with switch for side mounting on the right	110~127V/50Hz	TRUX110~127V50Hz
	220~230V/50Hz	TRUX220~230V50Hz
	415~440V/50Hz	TRUX415~440V50Hz
Insulation Barrier (for TCMS-100H/100HI only)		TIB100
Adaptor kit for MPCB + Mini Contactors	TCMS-32S+TC1M06-16	TDA-16SA
	TCMS-32S+TP1M06-16	TDA-16SD
	TCMS-32H/32HI+TC1M06-16	TDA-16HA
	TCMS-32H/32HI+TP1M06-16	TDA-16HD
Busbar	2 Point	PB322
		PB632
	3 Point*	PB323
		PB633
MPCB Enclosure (IP 65 Category)	For TCMS-32H/HI	EPH32-65S
Extended Handle (Door Mounting with Door Interlock, Defeat Interlock & Padlock)	Extension Shaft 115mm	
	TCMS-32H/HI	MEH32-115
	TCMS-63H/HI	MEH63-115
	TCMS-100H/HI	MEH100-115
	Extension Shaft 315mm	
	TCMS-32H/HI	MEH32-315
	TCMS-63H/HI	MEH63-315
	TCMS-100H/HI	MEH100-315



Mini Contactors

Conforming IS/IEC60947-4-1

Control Relays - 10 Amps			
Rated Current (Ith)	Contact Configuration	With AC Coil	With DC Coil
		Reference	Reference
10	2NO+2NC	TCA2-M22 ■	TCA3-M22 ■
	3NO+1NC	TCA2-M31 ■	TCA3-M31 ■
	4NO	TCA2-M40 ■	TCA3-M40 ■
	1NO + 3NC	TCA2-M13 ■	TCA3-M13 ■
	4NC	TCA2-M04 ■	TCA3-M04 ■



Power Contactors - 3 Pole									
AC1 Duty A	AC3 415V Long Life			Auxiliary Contacts		With AC Coil	Auxiliary Contacts		With DC Coil
	KW	HP	A			Reference			Reference
20	2.2	3	6	1NO	-	TC1-M0610 ■	1NO	-	TP1-M0610 ■
				-	1NC	TC1-M0601 ■	-	1NC	TP1-M0601 ■
	4	5.5	9	1NO	-	TC1-M0910 ■	1NO	-	TP1-M0910 ■
				-	1NC	TC1-M0901 ■	-	1NC	TP1-M0901 ■
	5.5	7.5	12	1NO	-	TC1-M1210 ■	1NO	-	TP1-M1210 ■
				-	1NC	TC1-M1201 ■	-	1NC	TP1-M1201 ■
	7.5	10	16	1NO	-	TC1-M1610 ■	1NO	-	TP1-M1610 ■
				-	1NC	TC1-M1601 ■	-	1NC	TP1-M1601 ■

■ Please specify Coil Voltage.

Coil Voltage Codes for Mini Contactors & Control Relays					
Contactor	Voltage				
	24	48	110	220	415
AC	B	E	F	M	N
DC	BD	ED	FD	MD	-

Overload Relays for Mini Contactors - Direct Mounting		
Relay Range (Amps)	Reference	Independent Mounting Kit
0.10 - 0.16	TR2 - M0.14A	Reference TA7-M0964
0.16 - 0.25	TR2 - M0.21A	
0.25 - 0.4	TR2 - M0.33A	
0.4 - 0.63	TR2 - M0.52A	
0.63 - 1	TR2 - M0.82A	
1 - 1.6	TR2 - M1.3A	
1.6 - 2.5	TR2 - M2.1A	
2.5 - 4	TR2 - M3.3A	
4 - 6	TR2 - M5A	
5 - 8	TR2 - M6.5A	
6 - 9	TR2 - M7.5A	
7 - 10	TR2 - M8.5A	
9 - 13	TR2 - M11A	
12 - 16	TR2 - M14A	



Accessories

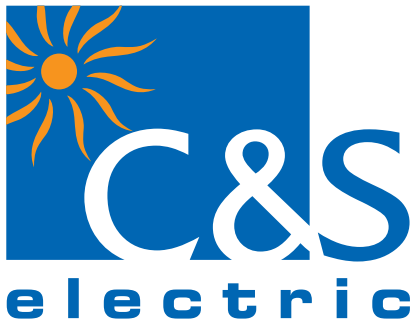
Add-On-Block		
Contact Configuration		Reference
Front Mounted	2 NO	TA1-M20
	1 NO+1 NC	TA1-M11
	2 NC	TA1-M02
	4 NO	TA1-M40
	3 NO+1 NC	TA1-M31
	2 NO+2 NC	TA1-M22
	1 NO+3 NC	TA1-M13
	4 NC	TA1-M04
Side Mounted	1 NC	TA8-M01
	1 NO	TA8-M10

Mechanical Interlocks for Horizontally Mounted		
Use For Contactor		Reference
AC	DC	
TC1-MS06	TP1-MS06	TA9-M978
TC1-MS09	TP1-MS09	
TC1-MS12	TP1-MS12	
TC1-MS16	TP1-MS16	

Electronic Timer				
Description	Delay	Time	Voltage	Reference
Front Mounting Electronic Timer	ON Delay	0.1~30sec	AC/DC	TA2-M/ 1N
	OFF Delay	0.1~30sec	24-48V	TA2-M/ 1F
	ON Delay	0.1~30sec	AC	TA3-M/ 2N
	OFF Delay	0.1~30sec	100~220V	TA3-M/ 2F

Coil Suppressor		
Description	Voltage	Reference
Varistor	AC 24~ 48V	TA9-M980/1
	AC 60~ 127V	TA9-M980/2
	AC 200~ 240V	TA9-M980/3
	DC 12~ 24V	TA9-M980/4
	DC 30 ~ 72V	TA9-M980/5
	DC 100 ~ 127 V	TA9-M980/6
	DC 200~ 250 V	TA9-M980/7





The
future
is here



robusta2
Contactor 7~38A

- Power Contactor Rating 7A ~ 38A, AC3, 3Pole, 45mm width
- In-built 1NO + 1NC auxiliary contacts
- Common Add-On accessories
- Easy coil replacement ... snap fit design
- High mechanical & electrical endurance
- Overload Relay 0.1~38A
- Conforms to IEC 60947-4-1



robusta 2 Contactor

Conforming IS/IEC60947-4-1

GLOBAL CERTIFICATION



Contactor					
AC1 Duty (A)	AC3 415V Long life			Auxiliary Contacts	Reference
	KW	HP	A		
25	2.2	3	7	1 NO+1NC	TC1D0711 ■
25	4	5.5	9	1 NO+1NC	TC1D0911 ■
25	5.5	7.5	12	1 NO+1NC	TC1D1211 ■
32	9	12	18	1 NO+1NC	TC1D1811 ■
40	11	15	25	1 NO+1NC	TC1D2511 ■
50	15	20	32	1 NO+1NC	TC1D3211 ■
50	18.5	20	38	1 NO+1NC	TC1D3811 ■

Overload Relay fixing attachment	
Use for Contactor	Reference
TC1D0711-1811	TA7D0765
TC1D2511-3811	TA7D2565

Spare Top Housing for 3P Contactors	
TC1-D0711	TA5-D0711
TC1-D0911	TA5-D0911
TC1-D1211	TA5-D1211
TC1-D1811	TA5-D1811
TC1-D2511	TA5-D2511
TC1-D3211	TA5-D3211
TC1-D3811	TA5-D3811

Mechanical Interlocks - Horizontal Mounted	
TC1D07~TC1D38	LA9-D09978

Spare AC Coils for Contactor	
TC1D07	TX1-D3 ■
TC1D09	
TC1D12	
TC1D18	
TC1D25	
TC1D32	
TC1D38	



Coil Surge Suppressor		
Description	Voltage Ratings	Reference
Varistor (AC/DC) Clip on mounting	12-55V 50/60Hz	TAD4VE
	56-136V 50/60Hz	TAD4VF
	137-277V 50/60Hz	TAD4VU
	278-575V 50/60Hz	TAD4VN



Thermal Overload Relay					
Relay setting range (A)	Standard power ratings of 3-Phase Motors 50/60Hz, AC3 Category		Reference	Suitable for Contactor Rating (Amps)	Independent Mounting Kit
	HP	kW			
23-32	20	15	TR2DM32353	32	TA7D0964
30-38	30	22	TR2DM38355	38	



Note: robusta Thermal Overload Relay Reference TR2D09301~TR2D25322 can be mounted directly on robusta 2 Contactor with additional fixing attachment Reference TA7D0765 (Contactor TC1D0711~1811) or TA7D2565 (Contactor TC1D2511~3811).

robusta 2 Thermal Overload Relay reference TR2DM32353 ~TR2DM38355 can be mounted directly on robusta 2 Contactor without any additional fixing attachment.

robusta2 Contactor Coils							
Contactor TC1-D / TX1D3	24V	48V	110V	220V	240V	415V	
50 Hz	B5	E5	F5	M5	U5	N5	

How to order: Select applicable Coil Voltage required for Contactor. Complete the code by replacing the ■ from above.

Contactor 6A~95A

Conforming IS/IEC60947-4-1 & IEC60947-4-1



GLOBAL CERTIFICATION



3 Pole Power Contactor rating 6A-95A									
Size	AC1 Duty A	AC3 415 V Long Life			Auxiliary Contacts		Reference	Std. Pkg. (Nos.)	
		kW	HP	A					
Frame 1	25	2.2	3	6	1NO	-	TC1D0610E	1	
					-	1NC	TC1D0601E		
		4	5.5	9	1NO	-	TC1D0910E		
					-	1NC	TC1D0901E		
		5.5	7.5	12	1NO	-	TC1D1210E		
					-	1NC	TC1D1201E		
	32	9	12.5	18	1NO	-	TC1D1810E		
					-	1NC	TC1D1801E		
	Frame 2	40	11	15	25	1NO	-		TC1D2510E
						-	1NC		TC1D2501E
		50	15	20	32	1NO	-		TC1D3210E
						-	1NC		TC1D3201E
Frame 3	60	22	30	40	1NO	1NC	TC1D4011E		
					1NO	1NC	TC1D5011E		
	80	25	35	50	1NO	1NC	TC1D6511E		
					1NO	1NC	TC1D8011E		
	125	45	60	80	1NO	1NC	TC1D9511E		
1NO					1NC	TC1D9511E			

4 Pole Power Contactor rating 9A-95A				
AC1 Duty A	Auxiliary Contacts		Reference	Std. Pkg. (Nos.)
25	4NO	--	TC1D12004E	1
	2NO	2NC	TC1D12008E	
32	4NO	--	TC1D18004E	
	4NO	--	TC1D25004E	
40	2NO	2NC	TC1D25008E	
	4NO	--	TC1D40004E	
60	2NO	2NC	TC1D40008E	
	4NO	--	TC1D50004E	
80	2NO	2NC	TC1D50008E	
	4NO	--	TC1D65004E	
	2NO	2NC	TC1D65008E	
125	4NO	--	TC1D80004E	
	2NO	2NC	TC1D80008E	
	4NO	--	TC1D95004E	
2NO	2NC	TC1D95008E		

Contactor 3 Pole: Rating 115 A- 630A

AC1 Duty A	AC3 415 V Long Life			With AC Coil	With DC Coil	Std. Pkg. (Nos.)
	kW	HP	A	Reference	Reference	
200	59	80	115	LC1FDP115AE	-	1
250	80	108	150	LC1FDP150AE	LC1FDP150AE	
275	100	136	185	LC1FDP185AE	LC1FDP185AE	
315	110	148	225	LC1FDP225AE	LC1FDP225AE	
350	140	190	265	LC1FDP265AE	LC1FDP265AE	
400	180	240	330	LC1FDP330AE	LC1FDP330AE	
500	220	300	400	LC1FDP400AE	LC1FDP400AE	
700	280	380	500	LC1FDP500AE	LC1FDP500AE	
1000	375	500	630	LC1FDP630AE	LC1FDP630AE	

Contactors 4 Pole: Rating AC1 200A ~ 1000A



AC1 Duty A	Main Pole Configuration	With AC Coil	With DC Coil	Std. Pkg. (Nos.)
		Reference	Reference	
200	4 NO	LC1FDP1154AE	LC1FDP1154AE	1
250	4 NO	LC1FDP1504AE	LC1FDP1504AE	
275	4 NO	LC1FDP1854AE	LC1FDP1854AE	
315	4 NO	LC1FDP2254AE	LC1FDP2254AE	
350	4 NO	LC1FDP2654AE	LC1FDP2654AE	
400	4 NO	LC1FDP3304AE	LC1FDP3304AE	
500	4 NO	LC1FDP4004AE	LC1FDP4004AE	
700	4 NO	LC1FDP5004AE	LC1FDP5004AE	
1000	4 NO	LC1FDP6304AE	LC1FDP6304AE	

Control Relay

Rated Current(Ie) AC15 at 240V (Amps)	Contact Configuration	Reference	Std. Pkg. (Nos.)
10	2NO + 2NC	TCA2-DN22E**	1
	3NO + 1NC	TCA2-DN31E**	
	4NO	TCA2-DN40E**	

AC Coil Voltage for exceed contactor

Contactor	Voltage					
	110	24	235	220	240	415
50Hz	F5	B5	C5W*	M5	U5	N5

NOTE:

1. Add Suffix ■ Coil voltage to complete product code
2. 235 V (C5W) Coil available only upto 25 Amps (AC3) Contactors.
3. 22A, 38A & 45A current ratings also available on request. (MOQ - 50 Nos.)

robusta Contactor

Conforming IS/IEC60947-4-1

GLOBAL CERTIFICATION



Control Relays - 10 Amps			
Rated Current(Ie) AC15 at 240V (Amps)	Contact Configuration	With AC Coil	With DC Coil
		Reference	Reference
10	2 NO + 2 NC	TCA2-DN22 ■	TCA3-DN22 ■
	3 NO + 1 NC	TCA2-DN31 ■	TCA3-DN31 ■
	4 NO	TCA2-DN40 ■	TCA3-DN40 ■

B



Power Contactors 3 Pole : Rating 9A ~ 95A									
AC1 Duty A	AC3 415 V Long Life			Auxiliary Contacts		With AC Coil	Auxiliary Contacts		With DC Coil
	KW	HP	A			Reference			Reference
25	4	5.5	9	1NO	-	TC1-D0910 ■	NO	-	TP1-D0910 ■
				-	1NC	TC1-D0901 ■	-	1NC	TP1-D0901 ■
	5.5	7.5	12	1NO	-	TC1-D1210 ■	NO	-	TP1-D1210 ■
				-	1NC	TC1-D1201 ■	-	1NC	TP1-D1201 ■
32	9	12.5	18	1NO	-	TC1-D1810 ■	NO	-	TP1-D1810 ■
				-	1NC	TC1-D1801 ■	-	1NC	TP1-D1801 ■
	11	15	22	1NO	-	TC1-D2210 ■	NO	-	TP1-D2210 ■
				-	1NC	TC1-D2201 ■	-	1NC	TP1-D2201 ■
40	11	15	25	1NO	-	TC1-D2510 ■	NO	-	TP1-D2510 ■
				-	1NC	TC1-D2501 ■	-	1NC	TP1-D2501 ■
50	15	20	32	1NO	-	TC1-D3210 ■	NO	-	TP1-D3210 ■
				-	1NC	TC1-D3201 ■	-	1NC	TP1-D3201 ■
	18.5	25	38	1NO	-	TC1-D3810 ■	NO	-	TP1-D3810 ■
				-	1NC	TC1-D3801 ■	-	1NC	TP1-D3801 ■
60	22	30	40	1NO	1NC	TC1-D4011 ■	NO	1NC	TP1-D4011 ■
				1NO	1NC	TC1-D4511 ■	NO	1NC	TP1-D4511 ■
				1NO	1NC	TC1-D5011 ■	NO	1NC	TP1-D5011 ■
80	25	35	50	1NO	1NC	TC1-D6511 ■	NO	1NC	TP1-D6511 ■
	37	50	65	1NO	1NC	TC1-D7011 ■	NO	1NC	TP1-D7011 ■
100	37	50	70	1NO	1NC	TC1-D8011 ■	NO	1NC	TP1-D8011 ■
125	45	60	80	1NO	1NC	TC1-D9511 ■	-	-	-
	45	60	95	1NO	1NC	TC1-D9511 ■	-	-	-

■ To specify Coil Voltage

AC Coil Voltage Codes for Contactors 9A-95A & Control Relays							
Contactor	Voltage						
TCA2-DN/TC1-D	24	48	110	220	235	240	415
50Hz	B5	E5	F5	M5	C5W*	U5	N5
50/60Hz	B7	E7	F7	M7	-	U7	N7

* Available from CR-38A Contactor only.

Power Contactors 3 Pole 4NC : Rating 9A ~ 25A				
AC1 Duty A	AC3 415 V Long Life			With AC Coil
	KW	HP	A	Reference
25	4	5.5	9	TC1-D09006 ■
	5.5	7.5	12	TC1-D12006 ■
40	11	15	25	TC1-D25006 ■

robusta Contactors

Conforming IEC60947-4-1

GLOBAL CERTIFICATION



Power Contactors With Dust Cover 3 Pole: Rating 115A ~ 800A					
AC1 Duty A	AC3 415 V Long Life			With AC Coil	With DC Coil
	kW	HP	A	Reference	Reference
200	59	80	115	LC1FDP115A ■	LC1FDP115A ■
250	80	108	150	LC1FDP150A ■	LC1FDP150A ■
275	100	136	185	LC1FDP185A ■	LC1FDP185A ■
275	105	140	200	LC1FDP200A ■	LC1FDP200A ■
315	110	148	225	LC1FDP225A ■	LC1FDP225A ■
350	140	190	265	LC1FDP265A ■	LC1FDP265A ■
350	150	200	300	LC1FDP300A ■	LC1FDP300A ■
400	180	240	330	LC1FDP330A ■	LC1FDP330A ■
500	220	300	400	LC1FDP400A ■	LC1FDP400A ■
600	240	320	460	LC1FDP460A ■	-
700	280	380	500	LC1FDP500A ■	LC1FDP500A ■
800	355	430	580	LC1FDP580A ■	-
1000	375	500	630	LC1FDP630A ■	LC1FDP630A ■
1600	425	580	780	LC1FDP780A ■	LC1FDP780A ■
1000	450	610	800	LC1FDP800A ■	-

- Power Contactors with dust cover 2 Pole variants available on reuests
- Power Contactors with dust cover rating 115~800A are supplied factory assembled complete with No-Volt Coil and auxiliary contact block 2NO+2NC.

Hoisting Power Contactors with dust cover 3 Pole : Rating 115A ~ 630A				
AC1 Duty A	AC3 415 V Long Life			With AC Coil
	kW	HP	A	Reference
200	59	80	115	LC1FDP115HCA ■
250	80	110	150	LC1FDP150HCA ■
275	100	135	185	LC1FDP185HCA ■
315	110	150	225	LC1FDP225HCA ■
350	140	190	265	LC1FDP265HCA ■
400	180	220	330	LC1FDP330HCA ■
500	220	300	400	LC1FDP400HCA ■
700	280	380	500	LC1FDP500HCA ■
1000	375	500	630	LC1FDP630HCA ■

■ To specify Coil Voltage

Telecom Contactors 4Pole Rating AC1 25 A-50A		
AC1 Duty A	Main Pole Configuration	With AC Coil
		Reference
25	4 NO	TC1DT254Ne
32	4 NO	TC1DT324Ne
40	4 NO	TC1DT404Ne
50	4 NO	TC1DT504Ne

AC Coil for 4 Pole Telecom Contactor				
Contactor	Voltage			
	230	235	240	415
50Hz	P	C5W	M	N

All coils codes applicable for extra wide band coils.

robusta Contactors

Conforming IEC60947-4-1

GLOBAL CERTIFICATION



Power Contactors 4 Pole : Rating AC1 25A ~ 125A				
AC1 Duty A	Main Pole Configuration		With AC Coil	With DC Coil
			Reference	Reference
25	4NO	--	TC1-D12004 ■	TP1-D12004 ■
	2NO	2NC	TC1-D12008 ■	TP1-D12008 ■
32	4NO	--	TC1-D18004 ■	Not Available
40	4NO	--	TC1-D25004 ■	TP1-D25004 ■
	2NO	2NC	TC1-D25008 ■	TP1-D25008 ■
60	4NO	--	TC1-D40004 ■	TP1-D40004 ■
	2NO	2NC	TC1-D40008 ■	TP1-D40008 ■
80	4NO	--	TC1-D50004 ■	Not Available
	2NO	2NC	TC1-D50008 ■	Not Available
	4NO	--	TC1-D65004 ■	TP1-D65004 ■
	2NO	2NC	TC1-D65008 ■	TP1-D65008 ■
125	4NO	--	TC1-D80004 ■	TP1-D80004 ■
	2NO	2NC	TC1-D80008 ■	TP1-D80008 ■

B



Power Contactors with dust cover 4 Pole : Rating AC1 200A ~ 1600A			
AC1 Duty A	Main Pole Configuration	With AC Coil	With DC Coil
		Reference	Reference
200	4 NO	LC1FDP1154 ■	LC1FDP1154 ■
250	4 NO	LC1FDP1504 ■	LC1FDP1504 ■
275	4 NO	LC1FDP1854 ■	LC1FDP1854 ■
315	4 NO	LC1FDP2254 ■	LC1FDP2254 ■
350	4 NO	LC1FDP2654 ■	LC1FDP2654 ■
400	4 NO	LC1FDP3304 ■	LC1FDP3304 ■
500	4 NO	LC1FDP4004 ■	LC1FDP4004 ■
700	4 NO	LC1FDP5004 ■	LC1FDP5004 ■
1000	4 NO	LC1FDP6304 ■	LC1FDP6304 ■
1600	4 NO	LC1FDP7804 ■	LC1FDP7804 ■

■ To specify Coil Voltage

4 Pole Power Contactors with dust cover rating AC1 200-1600A are supplied factory assembled complete with No-Volt Coil and auxiliary contact block 2NO+2NC.

Capacitor Duty Contactors



KVAR ratings at 50/60 Hz q < 55 o C (3)		Instantaneous Auxiliary Contacts		Maximum Operating Rate	Electrical life at rated load	Reference
200V / 240V	400V / 440V	NO	NC	Operations hour	Operations	
2.8	5	1	1	240	200000	TC1-D05K11■
		0	2			TC1-D05K11■
4	7.5	1	1	240	200000	TC1-D07K11■
		0	2			TC1-D07K02■
5.5	10	1	1	240	200000	TC1-D10K11■
		0	2			TC1-D10K02■
6.7	12.5	1	1	240	200000	TC1-D12K11■
		0	2			TC1-D12K02■
8.5	16.7	1	1	240	200000	TC1-D16K11■
		0	2			TC1-D16K02■
10	20	1	1	240	100000	TC1-D20K11■
		0	2			TC1-D20K02■
15	25	1	1	240	100000	TC1-D25K11■
		0	2			TC1-D25K02■
20	33.3	1	2	240	100000	TC1-D33K12■
25	40	1	2	100	100000	TC1-D40K12■
40	60	1	2	100	100000	TC1-D60K12■
40	75	1	2	100	100000	TC1-D75K12■
40	80	1	2	100	100000	TC1-D180K12■
40	100	1	2	100	100000	TC1-D100K12■

AC Coil Voltage robusTa Capacitor Duty Contactors

Contactor	Voltage					
TC1-D**K	24	110	220	235	240	415
50Hz	B5	F5	M5	G5W*	U5	N5
50/60Hz	B7	F7	M7	-	U7	N7

* Available upto 25kVAR only.

DC Coil Voltage Codes for Contactors 9A-95A & Control Relays

Contactor	Voltage				
TCA3-DN/TP1-D	24	48	72	110	220
Normal Coil	BD	ED	SD	FD	MD
Wide band Coil#	BW	EW	-	FW	-

Wide band Coil available in 50 Hz only

AC Coil Voltage Codes for Contactors 115A-780A

Contactor	Voltage			
	110	220	240♦	415
LC1FDP	F	M	U	N

DC Coil Voltage Codes for Contactors 115A-780A

Contactor	Voltage			
	24#	48	110	220
LC1FDP	BD	ED	FD	MD

Not available for LC1FDP400, LC1FDP500, LC1FDP630 & LC1FDP780

AC Coil Voltage Codes for Contactor 800A

Contactor	Voltage		
	110/127	220/240	380/400
LC1-FDP	FW	MW	W

♦ Not Available for LC1FDP780

How to order:

- i) Select applicable Coil Voltage required for Contactor.
- ii) Complete the code by replacing the ■

Non-Standard coil available on reuest, Contactor rating 115#780A

Accessories



Add-On Block for Contactor Rating 9~800A		
Contact Configuration		Reference
Front Mounted	1 NO	TA1-DN10*
	1 NC	TA1-DN01
	2 NO	TA1-DN20
	1 NO+1 NC	TA1-DN11
	2 NC	TA1-DN02
	4 NO	TA1-DN40
	3 NO+1 NC	TA1-DN31
	2 NO+2 NC	TA1-DN22
	1 NO+3 NC	TA1-DN13
	4 NC	TA1-DN04
Side Mounted	1 NO+1 NC	TA8-DN11**
	2 NO	TA8-DN20

Mechanical Interlocks - Horizontal Mounted		
Contact Configuration		Reference
AC	DC	
TC1-D09	TP1-D09	LA9-D09978
TC1-D12	TP1-D12	
TC1-D18	TP1-D18	
TC1-D25	TP1-D25	
TC1-D32	TP1-D32	
TC1-D40	TP1-D40	LA9-D50978
TC1-D50	TP1-D50	
TC1-D65	TP1-D65	
TC1-D70	TP1-D70	LA9-D80978
TC1-D80	TP1-D80	
TC1-D95	-	

* Suitable for robusTa Contactor rating 25-95A only. ** Suitable for robusTa Contactor rating 9-95A only.



Spare AC Coils Control Relay & Contactor 9-95A	
Use for Contactor AC	Reference
TCA2-DN	TX1-D2 ■
TC1-D09	
TC1-D12	
TC1-D18	
TC1-D25	
TC1-D32	TX1-D4 ■
TC1-D40	
TC1-D50	TX1-D6 ■
TC1-D63	
TC1-D80	
TC1-D95	

Coil Surge Suppressor for Contactor 9-95A		
Description	Voltage Ratings	Reference
Varistor (AC/DC) Clip-on mounting	24~48VAC/DC	TA9AMOV980E
	110~240V AC/DC	TA9AMOV980U
RC Circuit (AC) Clip-on mounting	24~48V AC	TA9RC980E
	110~240V AC	TA9RC980U
	380~440V AC	TA9RC980N



Pneumatic Timer Block - Front Mounted			
Contact Configuration		Reference	
ON delay	1 NO+1 NC	TA2-DT0	0.1...3s
ON delay	1 NO+1 NC	TA2-DT2	0.1...30s
ON delay	1 NO+1 NC	TA2-DT4	10...180s
OFF delay	1 NO+1 NC	TA3-DR0	0.1...3s
OFF delay	1 NO+1 NC	TA3-DR2	0.1...30s
OFF delay	1 NO+1 NC	TA3-DR4	10...180s
Star Delta	1 NO+1 NC	TA2-DS2	1...30s

Spare DC Coils Control Relay & Contactor 9~80A		
Use for Contactor DC	Reference	
TCA3 - DN	TX4-D2 ■	TX5-D2 ■
TP1 - D09		
TP1 - D12		
TP1 - D18		
TP1 - D25	TX4-D4 ■	TX5-D4 ■
TP1 - D32		
TP1 - D40	TX4-D40 ■	TX5-D40 ■
TP1 - D50		
TP1 - D65		
TP1 - D80		

Electrical & Mechanical Interlocks - Horizontal Mounted		
Use for Contactor		Reference*
AC	DC	
TC1-D09	TP1-D09	ELA9-D09978
TC1-D12	TP1-D12	
TC1-D18	TP1-D18	
TC1-D25	TP1-D25	
TC1-D32	TP1-D32	
TC1-D40	TP1-D40	ELA9-D50978
TC1-D50	TP1-D50	
TC1-D65	TP1-D65	
TC1-D80	TP1-D80	ELA9-D80978
TC1-D95	-	

■ Complete the code for Spare Coil by indicating the Coil Voltage required after the reference.

Accessories

Spare AC Coils for Hoisting Power Contactor				
Contactor	110V	220V	240V	415V
LC1-FDP115HCA	LX9FF110V	LX9FF220V	LX9FF240V	-
LC1-FDP150HCA				
LC1-FDP185HCA	LX9FG110V	LX9FG220V	LX9FG240V	-
LC1-FDP225HCA				
LC1-FDP265HCA	LX9FH1102V	LX9FH2202V	LX9FH2402V	-
LC1-FDP330HCA				
LC1-FDP400HCA	LX9FJ925	LX9FJ931	LX9FJ932	LX9FJ936
LC1-FDP500HCA	LX9FK925	LX9FK931	LX9FK932	LX9FK936
LC1-FDP630HCA	LX9FL924	LX9FL930	LX9FL931	LX9FL936

Spare AC Coils for Contactors Rating 115~800A				
Contactor	110V	220V	240V	415V
LC1-FDP115	LX1FF-110V	LX1FF-220V	LX1FF-240V	LX1FF-415V
LC1-FDP150				
LC1-FDP185	LX1FG-110V	LX1FG-220V	LX1FG-240V	LX1FG-415V
LC1-FDP200				
LC1-FDP225				
LC1-FDP265A	LX1FH-1102V	LX-FH-2202V	LX-FH-2402V	LX-FH-4152V
LC1-FDP300A				
LC1-FDP330A				
LC1-FDP400A	LX1FJ-110V	LX1FJ-220V	LX1FJ-240V	LX1FJ-415V
LC1-FDP500A	LX1FK-110V	LX1FK-220V	LX1FK-240V	LX1FK-415V
LC1-FDP630A	LX1FL-110V	LX1FL-220V	LX1FL-240V	LX1FL-415V
LC1-FDP780A	LX1FX-110V	LX1FX-220V	LX1FX-240V	LX1FX-415V
LC1-FDP800A	LX4F8FW	LX4F8MW	LX4F8MW	LX4F8W*

AC Coils will be suitable for 50Hz only. *Available in 380/400V only.

Spare DC Coils for Contactors Rating 115~800A				
Contactor	110V	220V	24V	485V
LC1-FDP115	LX4FF-110V	LX4FF-220V	LX4FF-24V	LX4FF-48V
LC1-FDP150				
LC1-FDP185	LX4FG-110V	LX4FG-220V	LX4FG-24V	LX4FG-48V
LC1-FDP225				
LC1-FDP265A	LX4FH-110V	LX4FH-220V	LX4FH-24V	LX4FH-48V
LC1-FDP330A				
LC1-FDP400A	LX4FJ-110V	LX4FJ-220V	Not Available	LX4FJ-48V
LC1-FDP500A	LX4FK-110V	LX4FK-220V	Not Available	LX4FK-48V
LC1-FDP630A	LX4FL-110V	LX4FL-220V	Not Available	LX4FL-48V
LC1-FDP780A	●	LX4FX-220V	●	●
LC1-FDP800A	LX4F8FW	LX4F8MW	-	LX4F8W*

● Contact Branch Office for product code. *Available in 380/400V only.

Accessories



B

Spare Top Housing for 3P/4P Contactors		
For Control Relay Contactor	Reference	
	AC	DC
For 3 Pole		
TCA2-DN40, TCA3-DN40	TA5-DN40	TA5-DN40 DC
TCA2-DN31, TCA3-DN31	TA5-DN31	TA5-DN31 DC
TCA2-DN22, TCA3-DN22	TA5-DN22	TA5-DN22 DC
TC1-D0910, TP1-D0910	TA5-D0910	TA5-D0910 DC
TC1-D0901, TP1-D0901	TA5-D0901	TA5-D0901 DC
TC1-D1210, TP1-D1210	TA5-D1210	TA5-D1210 DC
TC1-D1201, TP1-D1201	TA5-D1201	TA5-D1201 DC
TC1-D1810, TP1-D1810	TA5-D1810	TA5-D1810 DC
TC1-D1801, TP1-D1801	TA5-D1801	TA5-D1801 DC
TC1-D2210, TP1-D2210	TA5-D2210	TA5-D2210 DC
TC1-D2201, TP1-D2201	TA5-D2201	TA5-D2201 DC
TC1-D2510, TP1-D2510	TA5-D2510	TA5-D2510 DC
TC1-D2501, TP1-D2501	TA5-D2501	TA5-D2501 DC
TC1-D3210, TP1-D3210	TA5-D3210	TA5-D3210 DC
TC1-D3201, TP1-D3201	TA5-D3201	TA5-D3201 DC
TC1-D3810, TP1-D3810	TA5-D3810	TA5-D3810 DC
TC1-D3801, TP1-D3801	TA5-D3801	TA5-D3801 DC
TC1-D4011, TP1-D4011	TA5-D4011	TA5-D4011 DC
TC1-D5011, TP1-D5011	TA5-D5011	TA5-D5011 DC
TC1-D6511, TP1-D6511	TA5-D6511	TA5-D6511 DC
TC1-D7011, TP1-D7011	TA5-D7011	TA5-D6511 DC
TC1-D8011, TP1-D8011	TA5-D8011	TA5-D8011 DC
TC1-D9511	TA5-D9511	-
For 4 Pole		
TC1-D09004, TP1-D09004	TA5-D09004	TA5-D09004DC
TC1-D09008, TP1-D09008	TA5-D09008	TA5-D09008DC
TC1-D12004, TP1-D12004	TA5-D12004	TA5-D12004DC
TC1-D12008, TP1-D12008	TA5-D12008	TA5-D12008DC
TC1-D25004, TP1-D25004	TA5-D25004	TA5-D25004DC
TC1-D25008, TP1-D25008	TA5-D25008	TA5-D25008DC
TC1-D40004, TP1-D40004	TA5-D40004	TA5-D40004DC
TC1-D40008, TP1-D40008	TA5-D40008	TA5-D40008DC
TC1-D65004, TP1-D65004	TA5-D65004	TA5-D65004DC
TC1-D65008, TP1-D65008	TA5-D65008	TA5-D65008DC
TC1-D80004, TP1-D80004	TA5-D80004	TA5-D80004DC

Mechanical Interlocks for Contactor 115-630A Vertically / Horizontally Mounted	
Contactor	Reference
Horizontally Mounted	
LC1-FDP115A	LA9-FF970
LC1-FDP150A	
LC1-FDP185A	LA9-FG970
LC1-FDP200A	
LC1-FDP225A	
LC1-FDP265A	LA9-FJ970
LC1-FDP300A	
LC1-FDP330A	
LC1-FDP400A	
LC1-FDP500A	
LC1-FDP5004/LC1-F630A	LA9-FL970
Vertically Mounted	
LC1-FDP115A	LA9-FF4F
LC1-FDP150A	
LC1-FDP185A	LA9-FG4G
LC1-FDP200A	
LC1-FDP225A	
LC1-FDP265A	LA9-FH4H
LC1-FDP300A	
LC1-FDP330A	
LC1-FDP400A	LA9-FJ4J
LC1-FDP500A	LA9-FK4K
LC1-FDP5004/LC1-F630A	LA9-FL4L
LC1-FDP780A	LA9-FX970

Accessories

Spare Main Contact for 3P Contactors rating 115-800A

Contactor	Reference
LC1-FDP115A/HCA	LA5-FF431 (F115)
LC1-FDP150A/HCA	LA5-FF431 (F150)
LC1-FDP185A/HCA	LA5-FG431 (F185)
LC1-FDP200A/HCA	LA5-FG431 (F200)
LC1-FDP225A/HCA	LA5-FG431 (F225)
LC1-FDP265A/HCA	LA5-FH431 (F265)
LC1-FDP300A/HCA	LA5-FH431 (F300)
LC1-FDP330A/HCA	LA5-F400803 (F330)
LC1-FDP400A/HCA	LA5-F400803 (F400)
LC1-FDP500A/HCA	LA5-F500803 (F500)
LC1-FDP630A/HCA	LA5-F630803 (F630)
LC1-FDP780A/HCA	LA5F780801(F7804)*
LC1-FDP800A/HCA	LA5F800803(F800)

Spare Main Contact Sets for 4P Power Contactors rating 115-780A

LC1-FDP1154A	LA5-FF441 (F1154)
LC1-FDP1504A	LA5-FF441 (F1504)
LC1-FDP1854A	LA5FG441(F1854)
LC1-FDP2254A	LA5FG441(F2254)
LC1-FDP2654A	LA5-FH441 (F2654)
LC1-FDP3304A	LA5-F400803 (F3304)
LC1-FDP4004A	LA5-F400803 (F4004)
LC1-FDP5004A	LA5-F500803 (F5004)
LC1-FDP6304A	LA5-F630804 (F6304)
LC1-FDP7804A	LA5-F780801 (F780)**

- # Main Contacts set per pole includes (2 Fixed Contacts & Moving Contact, 2 Deflectors, 1 Backplate, Fixing Screws and Washers).
- * Main Contacts are for one pole only. (Set of two) Order 3 Nos for 3 pole Contactors & 4 Nos for 4 pole Contactors.
- ** Set of Main Contacts provided is 1 set of 2 blocks for one pole.

Spare Arc Chamber 3P

Contactor	Reference
LC1-FDP115A	LA5-F11550
LC1-FDP150A	LA5-F15050
LC1-FDP185A	LA5-F18550
LC1-FDP200A	LA5-F20050
LC1-FDP225A	LA5-F22550
LC1-FDP265A	LA5-F26550
LC1-FDP300A	LA5-F30050
LC1-FDP330A	LA5-F33050
LC1-FDP400A	LA5-F40050
LC1-FDP500A	LA5-F50050
LC1-FDP630A	LA5-F63050
LC1-FDP780A	LA5-F780150*

Spare Arc Chamber 4P

LC1-FDP1154A	LA5-F1154
LC1-FDP115A	LA5-F115450
LC1-FDP150A	LA5-F150450
LC1-FDP185A	LA5-F185450
LC1-FDP225A	LA5-F225450
LC1-FDP265A	LA5-F265450
LC1-FDP330A	LA5-F330450
LC1-FDP400A	LA5-F400450
LC1-FDP500A	LA5-F500450
LC1-FDP630A	LA5-F630450
LC1-FDP780A	LA5-F780150*
LC1-FDP800A	LA5-F80050

- # Main Contacts set per pole includes (2 Fixed Contacts & Moving Contact, 2 Deflectors, 1 Backplate, Fixing Screws and Washers).
- * Main Contacts are for one pole only. (Set of two) Order 3 Nos for 3 pole Contactors & 4 Nos for 4 pole Contactors.
- ** Set of Main Contacts provided is 1 set of 2 blocks for one pole.

Definite Purpose Contactor



Purpose

These contactors are used for control of Motors, Power Supplies, Heating Elements Lighting, HVAC Fans and Compressors

Environment

Maximum operating altitude: 2000 meters above sea level
 Ambient Air Temp: 40 degree to + 65 degree C
 Ambient air dampness around the device: 45% to 85% RH
 Coil supply voltage: 80% - 110% rated voltage

Coil Data

Voltage: 24, 120, 240 VAC 50 & 60 Hz
 Normal VA: Inrush 65VA, Sealed 7.5VA
 Duty Cycle: continuous
 Initial Insulation Resistance: 100-mega ohms minimum.



FLA	Resistive AMP Rating	Reference
Single Pole (Without Shunt)		
25	30	TCDP251*
30	40	TCDP301*
40	50	TCDP401*
Single Pole (With Shunt)		
25	30	TCDP251S*
30	40	TCDP301S*
40	50	TCDP401S*
Two Pole		
20	30	TCDP202*
30	40	TCDP302*
40	50	TCDP402*
20	30	TCDP203*
Three Pole		
20	30	TCDP203*
25	35	TCDP253*
30	40	TCDP303*
40	50	TCDP403*

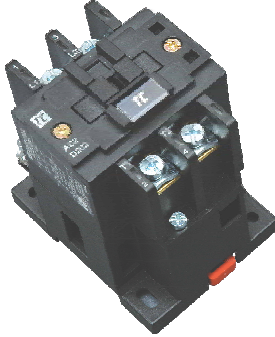
AC Coil Voltage Codes for Definite Purpose Contactors			
Voltage	24VAC	110VAC	240VAC
50Hz	B5	G5	U5
60Hz	B6	G6	U6



Electronic Timer

Description	Reference
Star Delta Timer, Range 0 ~ 30 Sec, 250-440V AC	TCET030SD415VAC

Contactors - 2 Pole



AC1 Duty	AC3 220V AC			Reference
	kW	HP	A	
32	3.8	5	20	AC2-D202 ■
40	4.8	6	25	AC2-D252 ■
40	4.8	6	40	AC2-D402 ■

AC Coil Voltage Codes (Standard) for 2 Pole Contactors

Contactor 2P	Voltage		
	220*	220/240*	380 / 415*
AC2-D2/D3/D4	M5W	MU	N

- * Wide band Coils
- Please specify Coil Voltage.

Spare Coil for 2 Pole Contactors

Coil Voltage	Reference
220/240V, 50Hz	AX1D2 MU
220V, 50Hz	AX1D2 M
380/415V, 50Hz	AX1D2 N
415V, 50Hz	AX1D2 N

Spare Contact Kit for 2 Pole Contactor

Description	Reference
20A Contact Kit, 2-Pole	AC5D202
25A Contact Kit, 2-Pole	AC5D252
40A Contact Kit, 2-Pole	AC5D402
20A Contact Kit, 1NO+1NC	AC5D2011

Add-on-Blocks for 2 Pole Contactors

Description	Contact Configuration	Reference
Front mounted Aux. contact Block	2NO	LA1-D20A
	1NO+1NC	LA1-D11A
	2NC	LA1-D02A

Thermal Overload Relays 2 Pole type LR7D - Direct Mounting



Relay Setting Range (A)	Independent Mounting Kit	Reference
4.0-6.0	LA7D0964	LR7-D09210
5.5-8.0		LR7-D09212
7.0-10		LR7-D09214
9.0-14		LR7-D12216X
13-18		LR7-D16221
14-22		LR7-D16221X
18-25		LR7-D25222
23-32		LR7-D32253

Contactors - 4 Pole



AC3, 415V			Main Poles Configuration	Reference
kW	HP	A		
7.5	10	20	4NO	TC1DX204■
11	15	25	4NO	TC1DX254■
22	30	40	4NO	TC1DX404■

AC Coil Voltage Codes (Standard) for 4 Pole Contactors

Contactor 4P	Voltage			
	110	220	380	415
TC1-DX204/254	F	M		N

■ Please specify Coil Voltage.

Spare Coil for 4 Pole Contactors

Reference	Coil Voltage
TX1D20■	220/380/415

Spare Contact Kit for 4 Pole Contactor

Reference	Description
TA5DX204	20A Contact Kit, 4-Pole
TA5DX254	25A Contact Kit, 4-Pole
TA5DX404	40A Contact Kit, 4-Pole

Add-on-Blocks for 4 Pole Contactors

Description	Contact Configuration	Reference
Front mounted Aux. contact Block	NO+1 NC	TA1-DN11A

Mechanical Interlock for 4 Pole Contactors

Description	Reference
Horizontal Mounted	LA9-D09978
Mechanical Interlock	ELA9-D09978

Thermal Overload Relays 3 Pole type LR3M - Direct Mounting

Relay Setting Range (A)	Reference
1.60~2.50	LR3M09307
2.50~4.00	LR3M09308
4.00~6.00	LR3M09310
5.50~8.00	LR3M09312
7.00~10.0	LR3M09314
9.0~14.0	LR3M12316X
13.0~18.0	LR3M16321
14.0~22.0	LR3M16321X
18.0~25.0	LR3M25322



robusta Overload Relay

Thermal Overload Relays Direct Mounting						
Relay Setting Range (Amps)	Standard Power Rating for 3 Ph. Motor at 415V		Reference	Suitable for Contactor Rating (Amps)	Independent Mounting Kit	
	HP	kW				
Direct Mounting						
0.10 ~ 0.16	*	*	TR2-D09301	9	Reference TA7-D0964	
0.16 ~ 0.25	*	*	TR2-D09302			
0.25 ~ 0.40	*	*	TR2-D09303			
0.40 ~ 0.63	*	*	TR2-D09304			
0.63 ~ 1.00	0.5	0.37	TR2-D09305			
1.00 ~ 1.60	0.75	0.55	TR2-D09306			
1.25 ~ 2.00	1	0.75	TR2-D093X6			
1.60 ~ 2.50	1.5	1.1	TR2-D09307			
2.50 ~ 4.00	2	1.5	TR2-D09308			
4.00 ~ 6.00	3	2.2	TR2-D09310			
5.50 ~ 8.00	5	3.7	TR2-D09312			
7.00 ~ 10.0	5.5	4	TR2-D09314			
9.0 ~ 13.0	7.5	5.5	TR2-D12316			12
9.0 ~ 14.0	7.5	5.5	TR2-D12316X	12		
12.0 ~ 18.0	12	9	TR2-D18321	18		
14.0 ~ 22.0	12	9	TR2-D18321X	18		
17.0 ~ 25.0	15	11	TR2-D25322	25		
23.0 ~ 32.0	20	15	TR2-D32353	32		
28.0 ~ 36.0	20	18	TR2-D32355			
23.0 ~ 32.0	20	15	TR2-D40353	40	TA7-D4064	
30.0 ~ 40.0	30	22	TR2-D40355			
37.0 ~ 50.0	35	25	TR2-D65357	-		
48.0 ~ 65.0	40	30	TR2-D65359	65		
55.0 ~ 70.0	50	37	TR2-D65361			
63.0 ~ 80.0	60	45	TR2-D80363			
80.0 ~ 93.0	65	49	TR2-D95365	95		
Independent Mounting						
65 ~ 105	75	55	LR1-F105			
80 ~ 125	80	59	LR1-F125			
100 ~ 160	110	80	LR1-F160			
125 ~ 200	135	100	LR1-F200			
160 ~ 250	175	129	LR1-F250			
200 ~ 315	220	160	LR1-F315			
250 ~ 400	270	200	LR1-F400			
315 ~ 500	350	257	LR1-F500			
400 ~ 630	480	355	LR1-F630			
500 ~ 800	580	425	LR1-F800			
630 ~ 1000	680	500	LR1-F1000			



Thermal Overload Relays Protective Shroud for LR1-F105~630

Relay Type	Reference
LR1-F(M)105	LA9-F702
LR1-F(M)125	
LR1-F160	
LR1-F200	
LR1-F250	LA9-F703
LR1-F315	
LR1-F400	
LR1-F500	
LR1-F630	LA9-F704
LR1-F800	

Heavy Duty Overload Relays Independent Mounting

Relay Setting Range (Amps)	Reference
2.5-4.0	TR6 - F4
4.0-6.3	TR6 - F6.3
6.3-10	TR6 - F10
8.0-12.5	TR6 - F12.5
10-16	TR6 - F16
16-25	TR6 - F25
25-40	TR6 - F40
40-63	TR6 - F63
63-100	TR6 - F100
100-160	TR6 - F160
125-200	TR6 - F200
160-250	TR6 - F250
250-400	TR6 - F400

MOTOR STARTERS

- Industrial



- Conforms to IS/IEC 60947-4-1
- 3Ø DOL Starter range: 0.50HP~60HP
- 3Ø Reversing DOL Starter range: 0.5HP~20HP
- 3Ø Star Delta Starter range: 7.5HP~350HP

Custom built Starter solutions with incomer MCCB & Electronic Motor Protection Relay

- 3Ø Intelligent Star Delta Starter range: 40HP~ 350HP
- 3Ø Intelligent Auto Transformer Starter range: 40HP~ 350HP

Industrial Motor Starters



Std. Power Rating for 3Ph. Motor at 415V		Reference	Relay LR1DM Range Amps
HP	KW		
3	2.2	BE1-DXP204■310	4.0-6.0
5	3.7	BE1-DXP204■312	5.5-8.0
5.5	4.0	BE1-DXP204■314	7-10
7.5	5.5	BE1-DXP204■316X	9-14
12	9	BE1-DXP204■321	13-18
15	11	BE1-DXP254■321XH	14-22
		BE1-DXP254■322	18-25
25	18	BE1-DXP404■353	23-32



Std. Power Rating for 3Ph. Motor at 415V		Reference	Relay LR1DM Range Amps
HP	KW		
7.5	5.5	BE3-DXP204■312	5.5-8.0
12	9	BE3-DXP204■314	7.0-10
15	11	BE3-DXP204■316X	9-14
20	15	BE3-DXP204■321	13-18
		BE3-DXP254■321XH	14-22
25	18	BE3-DXP254■322	18-25
30	22	BE3-DXP254■353	23-32

AC Coil Voltage Codes (Standard) for Heavy Duty Industrial Starter Type DX-P

Industrial Starter	Voltage		
	220	380#	415#
BE1-DXP	220	380#	415#
BE3-DXP	-	380#	415#
Coil Code	M		N

Industrial Starters are available in the above wide band operating range Standard coil voltages.
Coil Voltage 380V operating range 230-430V AC / Coil Voltage 415V operating range 260-450V AC

Reversing Starter with D range Contactor & LR1D OLR in S.S Enclosure

Std. Power Rating for 3Ph. Motor at 415V		Reference	Relay Range Amps
HP	KW		
2.0	1.5	BE2-D1735■308	2.50-4.00
3.0	2.2	BE2-D1735■310	4.00-6.00
5.0	3.7	BE2-D1735■312	5.50-8.00
5.5	4.0	BE2-D1735■314	7.00-10.0
7.5	5.5	BE2-D1735■316X	9.0-14.0
12.0	9.0	BE2-D2535■321	13.0-18.0
15.0	11.0	BE2-D2535■322	18.0-25.0
20.0	15.0	BE2-D3235■353	23.0-32.0

Industrial Motor Starters—Direct-On-Line



BE1



LE1D

Direct-On-Line Motor Starters in Sheet Steel Enclosures										
Max. Motor Rating (kW) 3 phase 50 Hz					Overload Relay Range (Amps)	Contactor Reference	Contactor AC3 duty Rating	Starter Catalogue Reference	Recommended Back-up HRC Fuse Rating	
208V	240V	415V	480V	660V					(aM)	(g)
-	-	0.5	-	0.55	0.63~1.00	TC1D12	12A	BE1T1235■305	2	4
-	0.37	0.55	0.75	1.1	1.00~1.60	TC1D12	12A	BE1T1235■306	2	4
0.37	0.75	1.1	1.1	1.5	1.60~2.50	TC1D12	12A	BE1T1235■307	4	6
0.75	1.5	1.5	1.5	3	2.50~4.00	TC1D12	12A	BE1T1235■308	6	10
1.1	2.2	2.2	2.2	4	4.00~6.00	TC1D12	12A	BE1T1235■310	8	16
1.5	3	3.7	3.7	5.5	5.50~8.00	TC1D12	12A	BE1T1235■312	12	20
2.2	4	4	4	7.5	7.00~10.0	TC1D12	12A	BE1T1235■314	12	20
3	5.5	5.5	5.5	10	9.0~13.0	TC1D12	12A	BE1T1235■316	16	25
4	7.5	9	9	15	12.0~18.0	TC1D18	18A	BE1T1835■321	20	32
5.5	11	11	11	18.5	17.0~25.0	TC1D25	25A	BE1T2535■322	25	50
7.5	15	15	15	-	23.0~32.0	TC1D32	32A	BE1T3235■353	40	63
10	18.5	22	22	30	30.0~40.0	TC1D40	40A	BE1T4035■355	63	-
11	22	25	25	37	37.0~50.0	TC1D50	50A	BE1T5035■357	63	-
18.5	25	30	30	50	48.0~65.0	TC1D65	65A	BE1T6535■359	63	-
20	30	37	37	55	55.0~70.0	TC1D65	65A	BE1T6535■361	80	-
22	33	40	40	59	63.0~80.0	TC1D80	80A	BE1T8035■363	80	-

Direct-On-Line Motor Starters in Plastic Enclosures**										
Max. Motor Rating (kW) 3 phase 50 Hz					Overload Relay Range (Amps)	Contactor Reference	Contactor AC3 duty Rating	Starter Catalogue Reference	Recommended Back-up HRC Fuse Rating	
208V	240V	415V	480V	660V					(aM)	(g)
-	-	0.5	-	0.55	0.63~1.00	TC1D12	12A	LE1D123■305	2	4
-	0.37	0.55	0.75	1.1	1.00~1.60	TC1D12	12A	LE1D123■306	2	4
0.37	0.75	1.1	1.1	1.5	1.60~2.50	TC1D12	12A	LE1D123■307	4	6
0.75	1.5	1.5	1.5	3	2.50~4.00	TC1D12	12A	LE1D123■308	6	10
1.1	2.2	2.2	2.2	4	4.00~6.00	TC1D12	12A	LE1D123■310	8	16
1.5	3	3.7	3.7	5.5	5.50~8.00	TC1D12	12A	LE1D123■312	12	20
2.2	4	4	4	7.5	7.00~10.0	TC1D12	12A	LE1D123■314	12	20
3	5.5	5.5	5.5	10	9.0~13.0	TC1D12	12A	LE1D123■316	16	25
4	7.5	9	9	15	12.0~18.0	TC1D18	18A	LE1D183■321	20	32
5.5	11	11	11	18.5	17.0~25.0	TC1D25	25A	LE1D253■322	25	50

3 Pole Enclosed, Type 4, Non-Reversing Starters, Plastic Enclosure							Catalog Number
Maximum HP Ratings						Catalog Number	
1-Phase		3-Phase					
120V	240V	208V	240V	480V	600V		
1	1	3	3	7.5	10	BE1D123XX	
1	3	5	5	10	15	BE1D183XX	
1.5	3	5	7.5	15	20	BE1D253XX	
2	5	7.5	10	20	25	BE1D323XX	

* Overload Relay not included.

** Standard Fault Ratings

Replace ■ with voltage code from table - 2

Table-2 : ■ -AC Coil Voltages														
Volts AC	24	48	110	120	208	220	240	277	380	415	440	480	575	600
50 Hz	B5	E5	F5	-	-	M5	U5	-	Q5	N5	R5	-	-	-
60 Hz	B6	E6	F6	G6	L6	M6	U6	W6	Q6	-	R6	T6	S6	X6
50/60 Hz	B7	E7	F7	G7	-	M7	U7	-	Q7	N7	R7	-	-	-

Industrial Motor Starters—Automatic Star Delta

Automatic Star Delta Starter with T range Contactor, LRD OLR & Electronic Star Delta Timer												
Reference	Standard power rating for 3 Phase motor at 415 V AC		FLC Phase Current I(A)	Recommended Back-up HRC Fuse Rating (A)			Contactor				Relay	
	kW	HP		(aM)	(g)	Star	Main	Delta	AC3 Rating (A)	Type	Range (A)	
BE3-T1835■307	1.5	2	2.3	4	6	TC1D18	TC1D18	TC1D18	18A	TR2D09307	1.6 -2.5	
BE3-T1835■308	3	4	4	6	10	TC1D18	TC1D18	TC1D18	18A	TR2D09308	2.5-4	
BE3-T1835■310	4	5.5	5	8	16	TC1D18	TC1D18	TC1D18	18A	TR2D09308	4-6	
BE3-T1835■312	5.5	7.5	6	12	20	TC1D18	TC1D18	TC1D18	18A	TR2D09310	5.5-8	
BE3-T1835■314	9	12	10	12	20	TC1D18	TC1D18	TC1D18	18A	TR2D09312	7-10	
BE3-T1835■316	11	15	12	16	25	TC1D18	TC1D18	TC1D18	18A	TR2D09314	9-13	
BE3-T2535■321	15	20	16	20	35	TC1D25	TC1D25	TC1D25	25A	TR2D09316	12-18	
BE3-T2535■322	18	25	21	40	50	TC1D25	TC1D25	TC1D25	25A	TR2D25322	17-25	
BE3-T3235■322	22	30	24	40	50	TC1D32	TC1D32	TC1D32	32A	TR2D25322	17-25	
BE3-T3235■353	25	35	30	40	63	TC1D32	TC1D32	TC1D32	32A	TR2D32353	23-32	
BE3-T4035■355	30	40	33	63	100	TC1D40	TC1D40	TC1D40	40A	TR2D40355	30-40	
BE3-T5035■357	45	60	47	63	100	TC1D50	TC1D50	TC1D50	50A	TR2D65357	37-50	
BE3-T6535■359	55	75	58	63	100	TC1D65	TC1D65	TC1D65	65A	TR2D65359	48-65	
BE3-T8035■363	80	107	80	100	160	TC1D80	TC1D80	TC1D80	80A	TR2D80363	63-80	
BE3F115■125	110	150	113	125	200	LC1FDP115A	LC1FDP115A	LC1FDP115A	115A	LR1F125	80-125	
BE3F185■200	160	215	165	200	315	LC1FDP185A	LC1FDP185A	LC1FDP185A	185A	LR1F200	125-200	

Note: Replace (■) with coil voltage

Semi-Automatic Star Delta Starter with D range Contactor, LRD OLR			
Std. Power Rating for 3Ph. Motor at 415V		Reference	Relay Range Amps
KW	HP		
3	4	BE3-D1735■308SA	2.5 ~ 4.0
4	5.5	BE3-D1735■310SA	4.0 ~ 6.0
5.5	7.5	BE3-D1735■312SA	5.5 ~ 8.0
9	12	BE3-D1735■314SA	7.0 ~ 10.0
11	15	BE3-D1735■316XSA	9.0 ~ 14.0
15	20	BE3-D2535■321SA	13.0 ~ 18.0
18	25	BE3-D2535■322SA	18.0 ~ 25.0

Coil Voltage Codes (Standard) for DOL Starters with D range Contactor		
Motor Starter	Voltage	
BE1-D/LE1-D	220V	415V
Coil Code	UW	N

** DOL Motor Starter are available only in the above Standard Coil Voltages.

Coil Voltage Codes (Standard) for DOL & Star Delta Starters with D range Contactor		
Motor Starter	Voltage	
BE1-D / BE2-D / BE3-D / BE3-F	380#	415
Coil Code	NW	N

Wide Band Coil available for Star Delta Starters upto 40HP only.

How to order Industrial Starter:

- (i) Complete the code by replacing the blue square (■) by the letter(s) corresponding to the Coil Voltage selected.
- (ii) Industrial DOL Starters should be selected based on the FLC of Pump/Motor & Coil Voltage required.

How to order Star Delta Starter:

- (i) Complete the code by replacing the blue square (■) by the letter(s) corresponding to the Coil Voltage selected.
- (ii) Star Delta starters should be selected based on the FLC of the Pump/Motor phase current (Motor FLC X 0.58) & Coil Voltage required.

MOTOR STARTERS

- Agri



- Conforms to IS/IEC 60947-4-1
- 3Ø DOL Starter range: 1HP~15HP
- 3Ø Auto Start DOL Starter range: Upto 25HP
- 1Ø DOL starter range: Upto 5HP
- 1Ø Submersible Pump Starter range: 0.5~5HP
- 3Ø Automatic Star Delta Starter range: Upto 30HP
- 3Ø Submersible Pump Starters range: upto 75HP
- Smart Mobile Pump Controller suitable for 1Phase & 3 Phase

Agri Motor Starter



Single Phase DOL Starter

Single Phase DOL Starter in S.S. Enclosure with 2P Contactor & 2P OLR type LR7D

Reference	Relay Range (Amp)	Std. Power Rating for Single Phase Motor at 220V AC		Std. Pkg. (Nos.)
		kW	HP	
BE1-ASA2025MU210	4.0-6.0	0.37	0.5	6
BE1-ASA2025MU212	5.5-8.0	0.55	0.75	
BE1-ASA2025MU214	7.0-10.0	0.75	1	
BE1-ASA2025MU216X	9.0-14.0	1.1	1.5	
BE1-ASA2525MU221	13.0-18.0	1.5	2	
BE1-ASA2525MU222	18.0-25.0	2.2	3	



Submersible Pump Starter

Single Phase Submersible Pump Starter-Economical Standard Model in S.S. Enclosure incorporating Single Phase Submersible Pump Starter-Economical Model in S S Enclosure Incorporating 2 Pole Definite Purpose Contactor, Single Pole MCB, Ammeter, ON/OFF Push Button, Motor ON Indicator with provision of terminal for dry run relay

Reference	Std. Power Rating for Single Phase Motor at 220V AC		Capacitor Rating (MFD)	MCB Rating 'C' Curve	Std. Pkg. (No's)
	kW	HP	Run	10kA	
BE1-SSEDP202U5C16	0.37	0.5	25	16	2
BE1-SSEDP202U5C20	0.55	0.75	36	20	
BE1-SSEDP202U5C25	0.75	1.0	36	25	
BE1-SSEDP202U5C32	1.1	1.5	50	32	
BE1-SSEDP202U5C40	1.5	2.0	36+36	40	



Single Phase Submersible Pump Starter-Economical Deluxe Model

Single Phase Submersible Pump Starter-Economical Model in SS Enclosure Incorporating 2 Pole Definite Purpose Contactor, 2 Pole Overload relay type LR7DM, Ammeter, Voltmeter ON/OFF Push Button, Motor ON Indicator with provision of terminal for dry run relay

Reference	Relay Range (Amps)	Std. Power Rating for Single Phase Motor at 220V AC		Capacitor Rating (MFD)		Std. Pkg. (No's)
		kW	HP	Run	Start	
BE1-SDEDP202U5210	4.0-6.0	0.37	0.5	25	80/100	2
BE1-SDEDP202U5212	5.5-8.0	0.55	0.75	36	80/100	
BE1-SDEDP202U5214	7.0-10	0.75	1.0	36	100/120	
BE1-SDEDP202U5214D2	7.0-10	0.75	1.0	50	100/120	
BE1-SDEDP202U5216XD2	9.0-14	1.1	1.5	36+36	120/150	
BE1-SDEDP202U5216X	9.0-14	1.1	1.5	50	120/150	
BE1-SDEDP202U5221X	14-22	1.5	2.0	36+36	150/200	

Single Phase Submersible Pump Starter suitable for wide band operating range 160V-260V 50Hz AC

Agri Motor Starter

Single Phase Submersible Pump Starter-Deluxe Model in S.S. Enclosure - Heavy duty 2 Pole Contactor, 2P Overload Relay Type LR7D, Suppressed scale Voltmeter & Ammeter with provision of terminals for dryrun relay

Reference	Relay Range (Amp)	Std. Power Rating for Single Phase Motor at 220V AC		Capacitor Rating (MFD)		Std. Pkg. (No's)
		kW	HP	Run	Start	
BE1-SDA2025MU210	4.0-6.0	0.37	0.5	25	80/100	2
BE1-SDA2025MU212	5.5-8.0	0.55	0.75	36	80/100	
BE1-SDA2025MU214	7.0-10.0	0.75	1	36	100/120	
BE1-SDA2025MU214H	7.0-10.0			50	100/120	
BE1-SDA2025MU216X	9.0-14.0			36	100/120	
BE1-SDA2025MU216XM	9.0-14.0			50	100/120	
BE1-SDA2025MU216XTS	9.0-14.0			72	100/120	
BE1-SDA2025MU216XH	9.0-14.0			50	120/150	
BE1-SDA2025MU216XA	9.0-14.0	1.1	1.5	36+36	120/150	
BE1-SDA2025MU221H	13.0-18.0			50+50	120/150	
BE1-SDA2525MU222	18.0-25.0	1.5	2	50+50	150/200	
BE1-SDA2525MU221X	14.0-22.0			36+36	150/200	
BE1-SDA2525MU221XTS	14.0-22.0			45+45	200/250	
BE1-SDA2525MU222M	18.0-25.0			50+50	150/200	
BE1-SDA2525MU222H	18.0-25.0			50+50	200/250	
BE1-SDA2525MU222TS	18.0-25.0			2.2	3	
BE1-SDA4025MU253	23.0-32.0	3.7	5	50+50+50	200/250	



DOL in S.S. Enclosure incorporating - Heavy Duty 4 Pole Contactor type TC1-DX with wide band operating coil, Overload relay type LR3D with manual re-set and yellow flag for trip indication

Reference	Relay Range (Amp)	kW	HP	Std. Pkg. (Nos.)
BE1-DXM204■307	1.6-2.5	1.1	1.5	12
BE1-DXM204■308	2.5-4.0	1.5	2	
BE1-DXM204■310	4.0-6.0	2.2	3	
BE1-DXM204■312	5.5-8.0	3.7	5	
BE1-DXM204■314	7.0-10	4	5.5	
BE1-DXM204■316X	9.0-14	5.5	7.5	
BE1-DXM204■321	13-18	9	12	
BE1-DXM254■321X	14-22	11	15	
BE1-DXM254■322	18-25	11	15	
BE1-DXM404■353	23-32	18	25	



Auto Start DOL Starter in SS Enclosure incorporating - Heavy Duty 4 Pole Contactor type TC1-DX with wide band operating coil, Overload relay type LR3D with manual re-set and yellow flag for trip indication. Electronic Auto Switch for protection against Single Phase, phase reversal & phase unbalance and 3 position selector switch-SPP Auto/SPP Manual/ Manual having provision of 6 way terminal block for bottom cable entry

Reference	Relay Range (Amp)	kW	HP	Std. Pkg. (Nos.)
BE1-DXSD204■307	1.6-2.5	1.1	1.5	1
BE1-DXSD204■308	2.5-4.0	1.5	2	
BE1-DXSD204■310	4.0-6.0	2.2	3	
BE1-DXSD204■312	5.5-8.0	3.7	5	
BE1-DXSD204■314	7.0-10	4	5.5	
BE1-DXSD204■316X	9.0-14	5.5	7.5	
BE1-DXSD204■321	13-18	9	12	
BE1-DXSD254■321X	14-22	11	15	
BE1-DXSD254■322	18-25	11	15	
BE1-DXSD404■353	23-32	18	25	



Automatic Star Delta Starter in S.S Enclosure incorporating - Heavy Duty 4 Pole Contactor type TC1-DX with wide band operating coil, Overload relay type LR3D for motor protection & Electronic Star Delta Timer

Reference	Relay Range (Amp)	Std. Power Rating for 3P at 415V		Std. Pkg. (Nos.)
		kW	HP	
BE3-DXM204■308	2.5-4.0	3.00	4.00	4
BE3-DXM204■310	4.0-6.0	4.00	5.5	
BE3-DXM204■312	5.5-8.0	5.5	7.5	
BE3-DXM204■314	7.0-10	9	12	
BE3-DXM204■316X	9.0-14	11	15	
BE3-DXM204■321	13.0-18	15	20	
BE3-DXM254■321X	14.0-22	18	25	
BE3-DXM254■322	18.0-25			
BE3-DXM254■353	23.0-32	22.5	30	



Agri Motor Starter



Semi Automatic Star Delta Starter in S.S Enclosure incorporating - Heavy Duty 4 Pole Contactor type TC1-DX with wide band operating coil, Overload relay type LR3D for motor protection

Reference	Relay Range (Amp)	Std. Power Rating for 3Phase Motor at 415V		Std. Pkg. (Nos.)
		kW	HP	
BE3-DXM204■314SA	7.0-10	9	12	4
BE3-DXM204■316XSA	9.0-14	11	15	
BE3-DXM204■321SA	13.0-18	15	20	
BE3-DXM254■321XSA	14.0-22	18	25	
BE3-DXM254■322SA	18.0-25			
BE3-DXM254■353SA	23.0-32	22.5	30	

Submersible Pump Starter with 3 Position Selector Switch

Submersible Pump Starter DOL - Deluxe Model incorporating - Heavy Duty 4 Pole Contactor type TC1-DX, Overload relay type LR3D, Auto Start Switch, 3 Position selector switch for SPP Auto/SPP Manual / Manual, Voltmeter with Selector Switch, Suppressed scale Ammeter, Motor ON & Trip LED Indicator, TP 'C' curve MCB for short circuit protection

Reference	Relay Range (Amp)	kW	HP	Std. Pkg. (Nos.)
BE1-SPSDDX204■308	2.5~4.0	1.5	2	1
BE1-SPSDDX204■310	4.0~6.0	2.2	3	
BE1-SPSDDX204■312	5.5~8.0	3.7	5	
BE1-SPSDDX204■314	7.0~10	3.9	5.5	
BE1-SPSDDX204■316X	9.0~14	5.5	7.5	
BE1-SPSDDX204■321	13~18	7.5	10	
BE1-SPSDDX254■321X	14~22	9.3	12.5	
BE1-SPSDDX254■322	18~25	11	15	
BE1-SPSDDX404■353	23~32	13	17.5	
BE1-SPSDDX404■355	28~40	15	20	



Submersible Pump Starter DOL - Standard Model incorporating - Heavy Duty 4 Pole Contactor type TC1-DX, Overload relay type LR3D, Auto Start Switch, 3 Position selector switch for SPP Auto/SPP Manual / Manual, Voltmeter, Suppressed scale Ammeter, Motor ON & Trip LED indicator

Reference	Relay Range (Amp)	kW	HP	Std. Pkg. (Nos.)
BE1-SPSSDX204■308	2.5~4.0	1.5	2	1
BE1-SPSSDX204■310	4.0~6.0	2.2	3	
BE1-SPSSDX204■312	5.5~8.0	3.7	5	
BE1-SPSSDX204■314	7.0~10	3.9	5.5	
BE1-SPSSDX204■316X	9.0~14	5.5	7.5	
BE1-SPSSDX204■321	13~18	7.5	10	
BE1-SPSSDX254■321X	14~22	9.3	12.5	
BE1-SPSSDX254■322	18~25	11	15	
BE1-SPSSDX404■353	23~32	13	17.5	
BE1-SPSSDX404■355	28~40	15	20	



Submersible Pump Starter Automatic Star Delta - Deluxe Model incorporating - Heavy Duty 4 Pole Contactor type TC1-DX, Overload relay type LR3D, Auto Start Switch, 3 Position selector switch for SPP Auto/SPP Manual / Manual, Voltmeter with Selector Switch, Suppressed scale Ammeter, RYB LED Indicator Motor ON & Trip LED Indicator, TP 'C' curve MCB for short circuit protection

Reference	Relay Range (Amp)	kW	HP	Std. Pkg. (Nos.)
BE3-SPSDDX204■308	2.5~4.0	1.5	2	1
BE3-SPSDDX204■310	4.0~6.0	2.2	3	
BE3-SPSDDX204■312	5.5~8.0	5	3.7	
BE3-SPSDDX204■314	7.0~10	5.5	3.9	
BE3-SPSDDX204■316X	9.0~14	7.5	5.5	
BE3-SPSDDX204■321	13~18	10	7.5	
BE3-SPSDDX254■321X	14~22	12.5	9.3	
BE3-SPSDDX254■322	18~25	15	11	
BE3-SPSDDX254■353	23~32	17.5	13	
BE3-SPSDDX404■355	28~40	20	15	
BE3-SPSDDX404■357	38~50	35	26	
BE3-SPSDD6335NW359*	48~57	40	30	
BE3-SPSDD8035NW361*	57~66	50	37	



*Wide band Coil NW has operating range 250-440V AC

Agri Motor Starter



Submersible Pump Starter Automatic Star Delta - Standard Model incorporating - Heavy Duty 4 Pole Contactor type TC1-DX, Overload relay type LR3D, Auto Start Switch, 3 Position selector switch for SPP Auto/SPP Manual / Manual, Voltmeter with Selector Switch, Suppressed scale Ammeter, Motor ON & Trip LED indicator

Reference	Relay Range (Amp)	kW	HP	Std. Pkg. (Nos.)
BE3-SPSSDX204■308	2.5-4.0	1.5	2	1
BE3-SPSSDX204■310	4.0-6.0	2.2	3	
BE3-SPSSDX204■312	5.5-8.0	3.7	5	
BE3-SPSSDX204■314	7.0-10	3.9	5.5	
BE3-SPSSDX204■316X	9.0-14	5.5	7.5	
BE3-SPSSDX204■321	13-18	7.5	10	
BE3-SPSSDX254■321X	14-22	9.3	12.5	
BE3-SPSSDX254■322	18-25	11	15	
BE3-SPSSDX254■353	23-32	13	17.5	
BE3-SPSSDX404■355	28-40	15.5	20	
BE3-SPSSDX404■357	38-50	26	35	
BE3-SPSSD6335NW359*	48-57	30	40	
BE3-SPSSD8035NW361*	57-66	37	50	

*Wide band Coil NW has operating range 250-440V AC

Thermal Overload Relays 3 Pole type LR3D-Direct Mounting

Reference	Relay Range (Amp)	Std. Pkg. (Nos.)
LR3D09307	1.60-2.50	1
LR3D09308	2.5-4.0	
LR3D09310	4.0-6.0	
LR3D09312	5.5-8.0	
LR3D09314	7.0-10	
LR3D12316X	9.0-14	
LR3D16321	13-18	
LR3D16321X	14-22	
LR3D25322	18-25	

Thermal Overload Relays 2 Pole type LR7D (Direct Mounting) & LR7DM

Reference	Relay Range (Amp)	Std. Pkg. (Nos.)
LR7D09207	1.60-2.50	1
LR7D09208	2.5-4.0	
LR7D09210 / LR7D09210M	4.0-6.0	
LR7D09212 / LR7D09212M	5.5-8.0	
LR7D09214 / LR7D09214M	7.0-10	
LR7D12216X / LR7D12216XM	9.0-14	
LR7D16221	13-18	
LR7D16221X / LR7D16221XM	14-22	
LR7D25222	18-25	
LR7D32253	23-32	

How to order Starter

- Complete the code by replacing the black square (■) by the letter(s) corresponding to the Coil Voltage selected.
- Starters / Submersible Pump Starter selection should be based on the FLC of Pump/Motor & Coil Voltage required as per installation.
- Anmol Starters should be ordered in standard packing for each model.

Coil Voltage Codes (Standard) for Submersible Pump Starter/DOL/Auto DOL Starter

Voltage		
Coil Voltage (AC) 50Hz	190-400	250-450
Coil Code**	Q	N

** Anmol Starters portfolio available in the above standard coil voltage only.

Wide operating band encapsulated coils with its operating range.

Agri Motor Starter Spares



Description	Reference
2P Contactor NO Volt Coil 220/240V	AX1-D2 MU
4P Contactor NO Volt Coil 380V	TX-1D20 or N
Pneumatic SD Timer (1-30 Sec)	TA2-DS2
Electronic SD Timer (1-30 Sec)	TCET030SD415VAC
Start NO Block	LA9-D09906
Front mounted Aux. Contact block 2 NO for 2P Contactor	LA1-D20A
Front mounted Aux. Contact block 1NO+1NC for 4P Contactor	TA1-DN11A
ON Indicating Lamp (Green)	RCB7IVL74-415V
TRIP Indicating Lamp (Red)	RCB7IVL73-415V
R Phase LED indicating Lamp	RCB7IVL74-240V
Y Phase LED indicating Lamp	RCB7IVL78-240V
B Phase LED indicating Lamp	RCB7IVL76-240V
Terminal Block, 2 way, 15A	TB2W15A
Terminal Block, 3 way, 60A	TB3W60A
Terminal Block, 6 way, 60A	TB6W60A
Contactor Extension Block for SDS	EXT01
Relay Extension Block for SDS	EXT02
Stop Push button (Red)	PBTL
Connector Assy. for Autoswitch (BE1-DXS)	CASPP
Voltage Selector Switch	SPVSS10
Ammeter (0-20....120A)	AM20A
Ammeter (0-50...300A)	AM50A
Ammeter (0-75/5A)	AM755
Ammeter (0-100/5A)	AM1005
Voltmeter (0-500V)	VM500
Ammeter (0-10...60A)	AM10A
Ammeter (0-15...90A)	AM15A
Ammeter (0-25...150A)	AM25A
Voltmeter (0-300V)	VM300
Terminal Block, 3 way, 30A	TB3W30A
Single Phase Preventor	TCAS045

IP 44 & IP 67 Versions

IEC 60309 Series



Description	Rating (Amp)	Protection Degree	3 PIN, 2P+E 240V AC		5 PIN, 3P+N+E 415V AC	
			Code	Reference (h)	Code	Reference (h)
Panel Mounting Socket - Splash Proof	16	IP 44	CS62205	6	CS62210	6
	32		CS62216	6	CS62221	6
Panel Mounting Socket - Water Tight	16	IP 67	CS62227	6	CS62232	6
	32		CS62238	6	CS62243	6
	63		CS63249	6	CS63254	6
	125		-	6	CS62262	6
Surface Mounting Socket - Splash Proof	16	IP 44	CS62404	6	CS62409	6
	32		CS62415	6	CS62420	6
Surface Mounting Socket - Water Tight	16	IP 67	CS62426	6	CS62431	6
	32		CS62437	6	CS62442	6
	63		CS63448	6	CS63453	6
Plugs - Splash Proof	16	IP 44	CS60004	6	CS60009	6
	32		CS60015	6	CS60020	6
Plugs - Water Tight	16	IP 67	CS60026	6	CS60031	6
	32		CS60037	6	CS60042	6
	63		CS61048	6	CS61053	6
	125		-	6	CS60061	6
Surface Mounting Interlocked Switched Socket Outlet - Horizontal	16	IP 44	CS66004(H)	6	CS66109(H)	6
	32		CS66015(H)	6	CS66020(H)	6
Surface Mounting Interlocked Switched Socket Outlet - Vertical	16	IP 67	CS66200	6	CS66202	6
	32		CS66201	6	CS66203	6
Connector - Splash Proof	16	IP 44	CS62004	6	-	-
	32		CS62015	6	-	-

AC Distribution Box with Socket



Description	Rating (Amp)	Protection Degree	Code	Reference (h)
AC Distribution Box (Includes Socket & Plug)	16A 3P 240V	IP 40	CS60045	6
	32A 3P 240V		CS60046	6
	32A 5P 415V		CS60047	6
	63A 5P 415V		CS60048	6

CONTROL & SIGNALLING DEVICES

- Pilot Lamps
- Push Buttons
- Control Stations











- Conforms to IS/IEC60947-5
- Ø22.5 mm Push Buttons, Emergency Stop PBs, Selector Switches, Illuminated & Non-Illuminated Actuators in Metallic & Polycarbonate variants
- Pilot Lamps in LED / Filament / Neon types
- Push Button Stations 1 / 2 / 3 / 4 ways, IP65 / 66, NEMA-4/4X protection
- High Mechanical and Electrical life
- Aesthetic and Elegant outlook
- Wide range of colors / voltages available

Globally accepted







22.5mm Push Button: Metallic & Polycarbonate



Push Button Actuators with Carrier - Non-Illuminated

Description	Reference	
	Metallic	Polycarbonate
 Push Spring Return Push Button	RCB2-BA1 ○	RCP2-BA1 ○
	RCB2-BA2 ●	RCP2-BA2 ●
	RCB2-BA3 ●	RCP2-BA3 ●
	RCB2-BA4 ●	RCP2-BA4 ●
	RCB2-BA5 ●	RCP2-BA5 ●
	RCB2-BA6 ●	RCP2-BA6 ●
 Flush Spring Return Push Button with contact	-	RCP2BA33 ●
	-	RCP2BA35 ●
 Projecting Push Button	RCB2-BL1 ○	RCP2-BL1 ○
	RCB2-BL2 ●	RCP2-BL2 ●
	RCB2-BL3 ●	RCP2-BL3 ●
	RCB2-BL4 ●	RCP2-BL4 ●
	RCB2-BL5 ●	RCP2-BL5 ●
	RCB2-BL6 ●	RCP2-BL6 ●
 Mushroom Head Push Button, Spring Return	RCB2-BC2 ●	RCP2-BC2 ●
	RCB2-BC3 ●	RCP2-BC3 ●
	RCB2-BC4 ●	RCP2-BC4 ●
	RCB2-BC5 ●	RCP2-BC5 ●
	RCB2-BC6 ●	RCP2-BC6 ●
	 Mushroom Head Push Button, Spring Return with contact	-
-		RCP2-BC31 ●
-		RCP2-BC42 ●
-		RCP2-BC51 ●
 Mushroom Head Push Button Stay Put (press to 60mm lock, turn to release)	RCB2-BS54 ●	RCP2BS54 ●
	RCB2-BS64 ●	RCP2BS64 ●
 Mushroom Head Push Button, Push to Stay & Key to release	RCB2-BS14 ●	RCP2BS14 ●
 Push Button Stay Put 30mm (Press to Lock turn to release)	RCB2-BS44 ●	RCP2BS44 ●

Push Button Actuators with Carrier & Contact Element-Non-Illuminated

 Flush Spring Return Push Button with 1NO Block	RCB2-BA11○	RCP2-BA11 ○
	RCB2-BA21●	RCP2-BA21 ●
	RCB2-BA31●	RCP2-BA31 ●
	RCB2-BA51●	RCP2-BA51 ●
	RCB2-BA61●	RCP2-BA61 ●
	RCB2-BA41●	RCP2-BA41 ●
 Push Button with 1NC Block	RCB2-BA42●	RCP2-BA42 ●
 Projecting Head Push Button with 1NO Block	RCB2-BA11○	RCP2-BL11 ○
	RCB2-BA21●	RCP2-BL21 ●
	RCB2-BA31●	RCP2-BL31 ●
	RCB2-BA61●	RCP2-BL61 ●
 Projecting PB with 1NC Block	RCB2-BA41●	RCP2-BL42 ●

Push Button Actuators - Illuminated Flush without Series Resistor

 Illuminated Actuator, Flush (With BA9 Filament Bulb) 12V, 24V, 48V, 110V AC / DC	RCB2-BW316▲○	RCP2-BW316▲○
	RCB2-BW336▲●	RCP2-BW336▲●
	RCB2-BW346▲●	RCP2-BW346▲●
	RCB2-BW356▲●	RCP2-BW356▲●
	RCB2-BW366▲●	RCP2-BW366▲●
 Illuminated Actuator, Flush (With BA9 Neon Bulb) 220V, 380V, 415V AC / DC	RCB2-BW376s▲○	RCP2-BW376▲○
	RCB2-BWN336▲●	RCP2-WN336▲●
	RCB2-BWN346▲●	RCP2-WN346▲●
	RCB2-BWN356▲●	RCP2-WN356▲●

22.5mm Push Button: Metallic & Polycarbonate

Push Button Actuators - Illuminated Flush



Description	Reference	
	Metallic	Polycarbonate
Illuminated Actuator, Flush (with BA9S Filament Bulb, 130V) 220V AC/DC	RCB2-BW317▲○	RCP2-BW317▲○
	RCB2-BW337▲●	RCP2-BW337▲●
	RCB2-BW347▲●	RCP2-BW347▲●
	RCB2-BW357▲●	RCP2-BW357▲●
	RCB2-BW367▲●	RCP2-BW367▲●
	RCB2-BW377▲○	RCP2-BW377▲○

LED Type Push Button Actuators - Illuminated Flush



Flush Illuminated with Integral Circuit LED suitable for operating at 240V 220V, 110V, 48V, 24V & 12V	RCB2-BWL337▲●	RCP2-BWL337▲●
	RCB2-BWL347▲●	RCP2-BWL347▲●
	RCB2-BWL357▲●	RCP2-BWL357▲●
Flush Illuminated With Integral Circuit LED suitable for operating at 240V 220V, 110V, 48V, 24V & 12V	RCB2-BWL317▲○	-
Flush Illuminated Actuator, with integral circuit LED, suitable for operating at common voltage AC/DC 220V, 110V, 48V, 24V & 12V Also available at operational voltage 240V AC, 220VDC, 110V AC, 110V DC	RCB2-BWL377▲●	-
	RCB2-BWL387▲●	-
	RCB2-BWL367▲●	RCP2-BWL367▲●

Push Button Actuator-Illuminated Projecting without Series Resistor



Illuminated Actuator, Flush (With BA9 Filament Bulb) 12V, 24V, 48V, 110V AC / DC	RCB2-BW116▲○	RCP2-BW116▲○
	RCB2-BW136▲●	RCP2-BW136▲●
	RCB2-BW146▲●	RCP2-BW146▲●
	RCB2-BW156▲●	RCP2-BW156▲●
Illuminated Actuator, Flush (With BA9 Neon Bulb) 220V, 380V, 415V AC / DC	RCB2-BW166▲●	RCP2-BW166▲●
	RCB2-BW176▲○	RCP2-BW176▲○
	RCB2-BWN136▲●	RCP2-BWN136▲●
	RCB2-BWN146▲●	RCP2-BWN146▲●
	RCB2-BWN156▲●	RCP2-BWN156▲●

Push Button Actuator-Illuminated Projecting without Series Resistor



Illuminated Actuator, Projecting (with BA9S Filament Bulb, 130V) 220V AC/DC	RCB2-BW117▲○	RCP2-BW117▲○
	RCB2-BW137▲●	RCP2-BW137▲●
	RCB2-BW147▲●	RCP2-BW147▲●
	RCB2-BW157▲●	RCP2-BW157▲●
	RCB2-BW167▲●	RCP2-BW167▲●
	RCB2-BW177▲○	RCP2-BW177▲○

LED Type Push Button Actuators - Illuminated Projecting Type of voltage AC/DC to be specified



Projecting Illuminated Actuator, with integral LED, suitable for operating at common Voltage AC/DC 110V, 48V, 24V & 12V Also available at operational Voltage 240V AC, 220V DC 110V AC, 110V DC	-	RCP2-BWL117▲○
	RCB2-BWL137▲●	RCP2-BWL137▲●
	RCB2-BWL147▲●	RCP2-BWL147▲●
	RCB2-BWL157▲●	RCP2-BWL157▲●
	-	RCP2-BWL177▲○
	-	RCP2-BWL187▲●
	RCB2-BWL167▲●	RCP2-BWL167▲●

Colour Code for Actuator / Lens

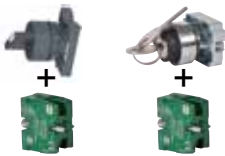
Colour Code	1	2	3	4	5	6	7
Colour of Actuator	White	Black	Green	Red	Yellow	Blue	-
Colour of Lens	White	-	Green	Red	Amber	Blue	Clear

▲ Add Voltage Code, ❖ Operating voltage available in 240V AC, 110V & 220V DC

B

22.5mm Push Button: Metallic & Polycarbonate

Selector Switch



Description	Reference	
	Metallic	Polycarbonate
2-Position Selector Switch (stay put)	RCB2-BD2	RCP2-BD2
3-Position Selector Switch,centre 'OFF' (stay put)	RCB2-BD3	RCP2-BD3
2-Position Selector Switch with extra long knob (stay put)	RCB2-BJ2	RCP2-BJ2
3-Position Selector Switch, with extra long knob centre 'OFF'(stay put)	RCB2-BJ3	RCP2-BJ3
3-Position Selector Switch (Spring Return)	RCB2-BDR2	RCP2-BDR3
2-Position Selector Switch-extra long knob (Spring Return)	RCB2-BDR3	RCP2-BJR2
3-Position Selector Switch extra long knob (Spring Return)	RCB2-BJR2	RCP2-BJR3
	RCB2-BJR3	

Selector Switch Actuators with Carrier & Contact Element

2-Position Selector Switch (stay put) with 1NO Block	RCB2-BD21	RCP2-BD21
2-Position Selector Switch, centre 'OFF' (stay put) with NO+NC Block	RCB2-BD25	RCP2-BD25
3-Position Selector Switch, centre 'OFF' (stay put) with NO+NC Block	RCP2-BD35	RCP2-BD35

Key Actuators with Carrier



2-Position Key Switch, Key removable in unactuated position	RCB2-BG2	RCP2-BG2
2-Position Key Switch, Key removable in both position	RCB2-BG4	RCP2-BG4
2-Position Key Switch, Key removable in 'Right Hand' position	RCB2-BG02	RCP2-BG02
2-Position (Spring Return) Key Switch,Key, removable in 'Left Hand' position	RCB2-BG3	RCP2-BG6
3-Position Key Switch, Key removable in centre 'OFF' position	RCB2-BG0	RCP2-BG3
3-Position Key Switch, Key removable in all position	RCB2-BG5	RCP2-BG0
3-Position Key Switch, Key removable in 'Left Hand & Right Hand' position	RCB2-BG9	RCP2-BG5
3-Position Key Switch, Key removable in 'Left Hand' position	RCB2-BG09	RCP2-BG9
3-Position Key Switch, Key removable in 'Right Hand' position	RCB2-BG7	RCP2-BG7

Selector Switch Actuators - Illuminated with series resistor



2-Position Illuminated Selector Switch (with BA9S Filament Bulb 130V) suitable for operation at 220V AC/DC	RCB2-BK1237 ▲●	-
	RCB2-BK1247 ▲●	-
	RCB2-BK1257 ▲●	-
3-Position Illuminated Selector Switch (with BA9S Filament Bulb 130V) suitable for operation at 220V AC/DC	RCB2-BK1337 ▲●	-
	RCB2-BK1347 ▲●	-
	RCB2-BK1357 ▲●	-

Selector Switch Actuators - Illuminated without series resistor



2-Position Illuminated Selector Switch (with BA9S Filament Bulb) 12V, 24V, 48V, 110V AC/DC, 220V DC, 240V AC	RCB2-BK1256 ▲●	-
	RCB2-BK1336 ▲●	-
	RCB2-BK1346 ▲●	-
3-Position Illuminated Selector Switch (with BA9S Filament Bulb) 12V, 24V, 48V, 110V AC/DC, 220V DC, 240V AC	RCB2-BK1356 ▲●	-
	RCB2-BKL1237 ▲●	-
	RCB2-BKL1247 ▲●	-
2-Position Illuminated Selector Switch (with LED Bulb) suitable for operation at 12V, 24V, 48V, 110V AC/DC, 220V DC, 240V AC	RCB2-BKL1257 ▲●	-
	RCB2-BKL1337 ▲●	-
	RCB2-BKL1347 ▲●	-
3-Position Illuminated Selector Switch (with LED Bulb) suitable for operation at 12V, 24V, 48V, 110V AC/DC, 220V DC, 240V AC	RCB2-BKL1357 ▲●	-

Double Push Button Actuators - Illuminated Flush without Series Resistor







Illuminated Double Push Button, Flush Green & Red Knob marked I&O respectively (with BA9S Neon Bulb)220V,380V,415VAC/DC	RCB2-BWN96 ▲●
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Push Button Actuators with Carrier - Non-Illuminated



Double Push Button,Flush Green & Red Knob marked I&O respectively	RCB2-BA87 ▲●
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22.5mm Push Button: Metallic & Polycarbonate


Pilot Lamps

Description	Reference	
	Metallic	Polycarbonate
 Pilot Lamp (with BA9S Filament Bulb) for Input Voltage: 240V AC and output Voltage: 6VAC	RCB2-BV41▲●	RCP2-BV41▲○
	RCB2-BV43▲●	RCP2-BV43▲●
	RCB2-BV44▲●	RCP2-BV44▲●
	RCB2-BV45▲●	RCP2-BV45▲●
	RCB2-BV46▲●	RCP2-BV46▲●
	RCB2-BV47▲○	RCP2-BV47▲○
 Pilot Lamp (with BA9S Filament Bulb) for input Voltage: 110V AC and output Voltage: 6V AC Pilot Lamps with Series Resistor	RCB2-BV31▲●	RCP2-BV31▲○
	RCB2-BV33▲●	RCP2-BV33▲●
	RCB2-BV34▲●	RCP2-BV34▲●
	RCB2-BV35▲●	RCP2-BV35▲●
	RCB2-BV36▲●	RCP2-BV36▲●
 Pilot Lamp (with BA9S Filament Bulb 130V) 220V AC / DC Pilot Lamps with Series Resistor & Diode	RCB2-BV37▲○	RCP2-BV37▲○
	RCB2-BV71▲●	RCP2-BV71▲○
	RCB2-BV73▲●	RCP2-BV73▲●
	RCB2-BV74▲●	RCP2-BV74▲●
	RCB2-BV75▲●	RCP2-BV75▲●
 Pilot Lamp (with BA9S Filament bulb 130V) 220V AC/DC	RCB2-BV76▲●	RCP2-BV76▲●
	RCB2-BV77▲○	RCP2-BV77▲○
	RCB2-BVD71	RCP2 BVD71▲○
	RCB2-BVD73▲●	RCP2-BVD73▲●
	RCB2-BVD74▲●	RCP2-BVD74▲●
	RCB2-BVD75▲●	RCP2-BVD75▲●
	RCB2-BVD76▲●	RCP2-BVD76▲●
RCB2-BVD77▲○	RCP2-BVD77▲○	

Integrated LED Pilot Lamp - Type of voltage AC/DC to be specified

 Integral LED pilot Lamp suitable for operating at common voltage AC/DC 110V, 48V, 24V & 12V Also available at operational voltage 240V AC, 220V DC, 110V AC, 110V DC	RCB7-IVL73▲●	-
	RCB7-IVL74▲●	-
	RCB7-IVL75▲●	-
	RCB7-IVL77▲○	-
	RCB7-IVL78▲●	-
	RCB7-IVL76▲●	-
	RCB7-IVL71▲●	-
	RCB7-IVL73▲●	-
 Wide range: 12V-240V AC/DC	RCB7-IVL74▲●	-
	RCB7-IVL75▲●	-
	RCB7-IVL77▲●	-
	RCB7-IVL78▲●	-
	RCB7-IVL76▲●	-
	RCB7-IVL71▲○	-
	RCB7-IVL71▲○	-

LED Type Pilot Lamp Type of voltage AC / DC to be specified

 Pilot Light with integral circuit LED, suitable for operating at common Voltage AC/DC 110V, 48V, 24V & 12V Also available at operational Voltage 240V AC, 220V DC 110V AC, 110V DC	RCB2-BVL73▲●	RCP2-BVL73▲●
	RCB2-BVL74▲●	RCP2-BVL74▲●
	RCB2-BVL75▲●	RCP2-BVL75▲●
	RCB-BVL77▲○	RCP2-BVL77▲○
	RCB2-BVL78▲●	RCP2-BWL71▲○
	RCB2-BVL76▲●	RCP2-BWL78▲●
	-	RCP2-BWL76▲●

Voltage Code for Pilot Lamps

Voltage	12V	24V	48V	110V	220V	240V	380V	415V
DC	JD	BD	ED	FD	MD	-	QD	ND
AC	JA	BA	EA	FA	MA	UA	QA	NA

22.5mm Push Button: Metallic & Polycarbonate

Complete Pilot Light Bodies



Description	Reference	
	Metallic	Polycarbonate
Direct BA 9s Filament Bulb Supplied 12V, 24V, 48V, 110V, 130V AC/DC	RB2BV6*	-
Through Resistor BA 9s, 130 V Filament Bulb supplied 240V AC/DC	RB2BV7	-
Through Resistor & diODE BA 9s, 130 V Filament Bulb supplied: 240V AC	RB2BVD7	-
Via Intefral Transformer 1.2VA BA9s, 6v Filament Bulb Supplied 110V , 6V AC, 220V, 240V, 6V AC	RB2BV3	-
	RB2BV4	-
Integral Circuit & Cluster LED 12V, 24V, 48V AC/DC 110VAC, 110V DC, 220V DC, 240VAC	RB2BVL71 ○	-
	RB2BVL73 ●	-
	RB2BVL74 ●	-
	RB2BVL75 ●	-
	RB2BVL76 ●	-
	RB2BVL77 ○	-
RB2BVL78 ●	-	

Push Buttons Additional Accessories

Reset Extended Actuator Push button - Round Type	RCB2AL8R	-
Reset Extended Actuator Push button - Hex Type	RCB2AL8H	-
Plastic Adopter for 30 mm hole to 22.5 mm.	-	RP2-BZ41M
Metal Adopter for 30 mm hole to 22.5 mm	RB2-BZ41M	-
Recess (Guarded) Push button - Plastic	-	RP2-BA16 ○
	-	RP2-BA26 ●
	-	RP2-BA36 ●
	-	RP2-BA46 ●
	-	RP2-BA56 ●
	-	RP2-BA66 ●

Contact Elements - NO/NC

Contact Element 1 NO	RB2- BE-101
Contact Element 1 NC	RB2- BE-102

Flashing Buzzer

Description	Reference	
	Metallic	Polycarbonate
Intermittent Sounding Flashing Buzzer 15 ~ 20 mA, sound level 80 dB.24V, 48V, 110V AC/DC 240V AC (* Add Voltage code)	RB2-KS* ●	

How to Order :

1. Actuators, switch elements, lens assemblies can be ordered separately or in combination.
2. Basic type designation for actuators is "RB2-B". Numerical colour code is added as a suffix to indicate the colour of the actuator or lens. Remove "*" and put numerical code as indicated below:

Colour Code	1	2	3	4	5	6	7
Colour of Actuator	White	Black	Green	Red	Yellow	Blue	-
Colour of Lens	White	-	Green	Red	Amber	Blue	Clear

3. Different suffixes are assigned for flush, projecting, selector actuators etc.
4. The type designation for contact element is '1' for NO and '2' for NC.
5. Basic type designation for legend plates is "RB2-BY". To complete code with type of inscription please remove "*" and put numerical code as indicated below.

Control Stations - Assembled



Complete Control Stations - Start and Stop Functions Metal & Plastic, Spring Return

Description	Scheme	Colour	Marking on legend	Reference	
				Metallic	Polycarbonate
1 Flush Push Button	NO	3	I START	RC 1M 102	RC 1P 102
				RC 1M 103	RC 1P 103
1 Flush Push Button	NC	4	O STOP	RC 1M 112	RC 1P 112
				RC 1M 114	RC 1P 114
Latching Push Button	NC	4	STOP	RC 1MBS542	RC 1PBS542
Mushroom Head Key Switch	NC	4	STOP	-	RC 1PBS142
				-	RC 1PYBS142
2 Flush Push Button	NO+NC	3	I	RC 2M 213	RC 2P 213
		4	O		
2 Flush Push Button	NO+NC	3	START	RC 2M 215	RC 2P 215
		4	STOP		



Complete Control Stations Directional/Movement Control Functions Metal & Plastic, Spring Return

Description	Scheme	Colour	Marking on legend	Reference	
				Metallic	Polycarbonate
2 Flush Push Button	NO + NO	1	↕ Up Down	RC 2M 222	RC2P222
		2		RC 2M 222A	RC2P222A
		1	↔ Right Left	RC 2M 223	RC2P223
		2		RC 2M 223A	RC2P223A
		1	Open Close	RC 2M 241	RC2P241
		2	Forward Reverse	RC2M222B	RC2P222B
3 Flush Push Button	NO + NC + NO	3	Forward Stop Reverse	RC 3M 311	RC3P311
		4	Up Stop Down	RC 3M 321	RC3P321
		3	Right Stop Left	RC 3M 331	RC3P331
			Open Stop Close	RC 3M 341	RC3P341
		1	↕ Up Down	RC 3M 324	RC3P324
		4		RC 3M 334	RC3P334



Control Stations for Customer Assembly Empty Enclosure, Metal & Plastic

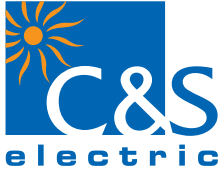
Description		Number of Ways	Reference	
Top	Base		Metallic	Polycarbonate
Yellow		1	-	RC - 1PY
Bone Grey	Jet Black	1	RC - 1M	RC - 1P
		2	RC - 2M	RC - 2P
		3	RC - 3M	RC - 3P
		4	RC - 4M*	RC - 4P

* Empty Enclosure's are available without contact blocks and push buttons and can be assembled with the accessories / spare parts as per specified requirements.



Contact Blocks - Base Mounted For Control Stations Customer Assembly

Contact Block (NO)	RB2BE-101BM	RB2BE-101BP
Slow Break (NC)	RB2BE-102BM	RB2BE-102BP



Final Power Distribution Components



- Miniature Circuit Breakers
- Residual Current Circuit Breakers
- Isolators
- MCB Type Changeover Switches
- Distribution Boards
- Cable End Boxes
- Plug & Socket Dbs
- MCB Enclosures



WiNtrip & WiNtrip2 MCB & Isolator



- Wide range: 0.5A ~ 125A
1P, 1P+N, 2P, 3P, 3P+N, 4P
Trip Curve B, C & D breaking capacity, 6kA & 10kA
- DC MCB
Range: 0.5A ~ 63A, 1P & 2P
- Isolator
Range: 0.5~125A, 1P, 2P, 3P & 4P, IP 20 degree protection

CB Certificate No. DK 50683-UL - IEC/EN60898-1
CB Certificate No. DK 50639-UL - IEC60947-2

WiNtrip MCB Changeover Switch

- Range: 25A, 40A & 63A
- Version: 2P & 4P
- Conforms to IS/IEC60947-3: 1999

WiNtrip RCCB



- Range: 16, 20, 25, 32, 40, 63, 80 & 100A in 30, 100 & 300mA sensitivity, 2P & 4P
- High short-circuit current withstand capacity 6kA
- Dual termination possible for both cable and comb type busbar

Distribution Board

- Wide Range: SPN & TPN Horizontal DB 4, 6, 8, 12 & 16 way Single & Double Door
- WiNclass SPN/TPN DB Horizontal-Single & Double door
- VTPN DB with provision for MCB / MCCB as incomer DB in 4, 8 & 12 way PPI DB in 4, 8 & 12 way
- Phase selector DB/Pre-wire DB/Flexy DB 7 Segment DB
- TV Telephone DBs, Metal & Plastic enclosures for MCB
- Acrylic SPN DB-Double door Cable End Box DB
- Polycarbonate Consumer Unit DB in 6, 8, 10, 12 & 16 way

WiNtrip Plug & Socket Boxes

- Range: 10, 20, 30A
- SPN / TPN

LED & Conventional Lighting

LED Lighting

- LED Domestic & Retail
- LED Lamps & Tubes
- LED Professional

Conventional Lighting

- Domestic & Retail
- Commercial
- Industrial
- Outdoor

Modular Wiring Accessories

DIVINO SWITCHES

- Switches 6A, 16A & 25A
- Fan regulator / dimmer
- Sockets 6A, 13A, 16A & 25A
- Telephone, Computer & TV socket
- Hospitality range
- Top plates with support plate
- Metal Boxes

COMBI WEATHER-PROOF ENCLOSURES.

- IP55 & IP40 enclosures
- Handy/add-on power extension box

Top Plug

- Rating: 6A~25A

PRIMO SWITCHES

- Switches 6A, 16A & 25A
- Fan regulator / dimmer
- Sockets 6A, 16A & 25A
- Telephone, Computer & TV socket
- Hospitality range
- Top plates with support plate
- Metal boxes

WiNtrip2 Miniature Circuit Breaker

Technical Data

MCB & Isolator-AC

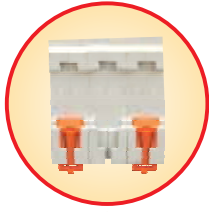
Specifications	WiNtrip2 MCB				WiNtrip2 Isolator
Type	'B'	'C'	'D'	'K'	
Standard Conformity	IEC/EN60898-1			IEC60947-2	IEC60947-3
Rated Current (In)	6A-63A	0.5A-63A			25A-125A
Rated Voltage AC (Ue)	240/415V				240/415V
Utilization Category	-			A	AC22A
Rated Frequency Hz	50/60Hz				50/60Hz
Poles (Execution)	1P, 1P+N, 2P, 3P, 3P+N & 4P				1P, 2P, 3P & 4P
Rated Short Circuit Breaking Capacity	6kA / 10kA			6kA / 10kA	-
Rated Insulation Voltage (Ui)	660V			500V	660V
Magnetic Release Setting	(3-5) In	(5-10) In	(10-20) In	10In	
Release	Thermo Magnetic				-
Rated Impulse Voltage (Uimp)	4kV			6kV	6kV
Electrical/Mechanical Life <32A	30,000				30,000
>32A	10,000				10,000
Energy Limiting Class	ELC 3			-	-
Mounting	Clip on Din rail (35x7.5 mm)				Clip on Din rail (35x7.5 mm)
Line Terminal Capacity	35 mm ²				35 mm ²
Load Terminal Capacity	35 mm ²				35 mm ²
Degree of Protection	IP 20				IP 20
Circuit Breaker for use in IT Systems	Yes				-
Resistance to Shock	40mm free fall				40mm free fall
Ambient working temperature	- 25°C to 55°C				-
Ambient reference temperature	30°C			40°C	-
Installation Position	Vertical/Horizontal				Vertical/Horizontal
Bi-connect terminal	Both side				Both side
Operational voltage (Un): 240/415V, 50/60Hz can be used in systems upto 60V DC in SP and 110V DC in 2P Breaking Capacity: 10kA as per IS/IEC 60898-1					

MCB-DC

Circuit Breakers for DC application are engineered to fulfill tough arc quenching conditions. DC MCB incorporates built in magnet to direct the arc into the arc quenching chamber.

Specifications	WiNtrip2 MCB
Standard Conformity	IEC 60898-2-2003
Rated Current (In)	0.5-63A
Rated Voltage AC (Ue)	220V DC
Utilization Category	-
Poles (Execution)	1P & 2P
Rated Short Circuit Breaking Capacity	10kA
Rated Insulation Voltage (Ui)	660V
Magnetic Release Setting	1.4 (Equivalent of AC MCB)
Rated Impulse Voltage (Uimp)	4kV
Electrical/Mechanical Life with DC Rated current/ Rated Voltage (63A)	1000
Ambient working Temperature	-5°C to 55°C
Mounting	Din Rail
Line Terminal Capacity	35mm
Degree of Protection	IP20
Ambient reference Temperature	30
Installation Position	Vertical /Horizontal

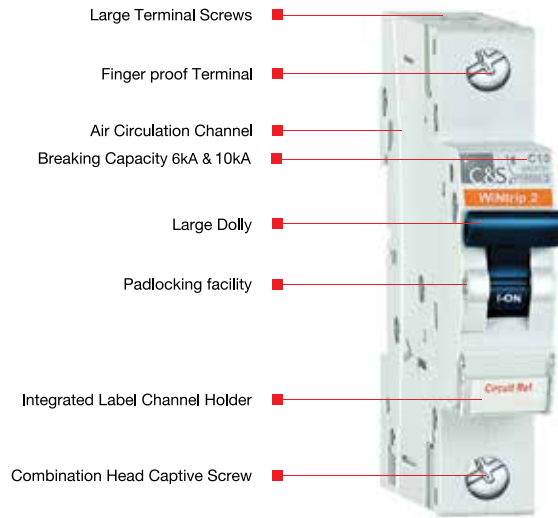
WiNtrip2 Miniature Circuit Breaker



Two stage easy snapping device for Din Rail Mounting



Bi-connect terminals for Cable and Busbar



B-Series

Lighting & Distribution with no Surge Current



Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
1 Pole			
6	CSMBS1B6X	CSMBS1B6	12
10	CSMBS1B10X	CSMBS1B10	
16	CSMBS1B16X	CSMBS1B16	
20	CSMBS1B20X	CSMBS1B20	
25	CSMBS1B25X	CSMBS1B25	
32	CSMBS1B32X	CSMBS1B32	
40	CSMBS1B40X	CSMBS1B40	
50	CSMBS1B50X	CSMBS1B50	
63	CSMBS1B63X	CSMBS1B63	



Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
1 Pole + N			
6	CSMBS1B6NX	CSMBS1B6N	6
10	CSMBS1B10NX	CSMBS1B10N	
16	CSMBS1B16NX	CSMBS1B16N	
20	CSMBS1B20NX	CSMBS1B20N	
25	CSMBS1B25NX	CSMBS1B25N	
32	CSMBS1B32NX	CSMBS1B32N	
40	CSMBS1B40NX	CSMBS1B40N	
50	CSMBS1B50NX	CSMBS1B50N	
63	CSMBS1B63NX	CSMBS1B63N	



Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
2 Pole			
6	CSMBS2B6X	CSMBS2B6	6
10	CSMBS2B10X	CSMBS2B10	
16	CSMBS2B16X	CSMBS2B16	
20	CSMBS2B20X	CSMBS2B20	
25	CSMBS2B25X	CSMBS2B25	
32	CSMBS2B32X	CSMBS2B32	
40	CSMBS2B40X	CSMBS2B40	
50	CSMBS2B50X	CSMBS2B50	
63	CSMBS2B63X	CSMBS2B63	

Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
3 Pole			
6	CSMBS3B6X	CSMBS3B6	4
10	CSMBS3B10X	CSMBS3B10	
16	CSMBS3B16X	CSMBS3B16	
20	CSMBS3B20X	CSMBS3B20	
25	CSMBS3B25X	CSMBS3B25	
32	CSMBS3B32X	CSMBS3B32	
40	CSMBS3B40X	CSMBS3B40	
50	CSMBS3B50X	CSMBS3B50	
63	CSMBS3B63X	CSMBS3B63	

Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
3 Pole + N			
6	CSMBS3B6NX	CSMBS3B6N	3
10	CSMBS3B10NX	CSMBS3B10N	
16	CSMBS3B16NX	CSMBS3B16N	
20	CSMBS3B20NX	CSMBS3B20N	
25	CSMBS3B25NX	CSMBS3B25N	
32	CSMBS3B32NX	CSMBS3B32N	
40	CSMBS3B40NX	CSMBS3B40N	
50	CSMBS3B50NX	CSMBS3B50N	
63	CSMBS3B63NX	CSMBS3B63N	

Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
4 Pole			
6	CSMBS4B6X	CSMBS4B6	3
10	CSMBS4B10X	CSMBS4B10	
16	CSMBS4B16X	CSMBS4B16	
20	CSMBS4B20X	CSMBS4B20	
25	CSMBS4B25X	CSMBS4B25	
32	CSMBS4B32X	CSMBS4B32	
40	CSMBS4B40X	CSMBS4B40	
50	CSMBS4B50X	CSMBS4B50	
63	CSMBS4B63X	CSMBS4B63	

WiNtrip2 Miniature Circuit Breaker

C-Series

Inductive load with surge current - Motor Circuit Applications



Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
1 Pole			
0.5	CSMBS1C0.5X	CSMBS1C0.5	12
1	CSMBS1C1X	CSMBS1C1	
2	CSMBS1C2X	CSMBS1C2	
3	CSMBS1C3X	CSMBS1C3	
4	CSMBS1C4X	CSMBS1C4	
5	CSMBS1C5X	CSMBS1C5	
6	CSMBS1C6X	CSMBS1C6	
10	CSMBS1C10X	CSMBS1C10	
16	CSMBS1C16X	CSMBS1C16	
20	CSMBS1C20X	CSMBS1C20	
25	CSMBS1C25X	CSMBS1C25	
32	CSMBS1C32X	CSMBS1C32	
40	CSMBS1C40X	CSMBS1C40	
50	CSMBS1C50X	CSMBS1C50	
63	CSMBS1C63X	CSMBS1C63	

Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
3 Pole			
0.5	CSMBS3C0.5X	CSMBS3C0.5	4
1	CSMBS3C1X	CSMBS3C1	
2	CSMBS3C2X	CSMBS3C2	
3	CSMBS3C3X	CSMBS3C3	
4	CSMBS3C4X	CSMBS3C4	
5	CSMBS3C5X	CSMBS3C5	
6	CSMBS3C6X	CSMBS3C6	
10	CSMBS3C10X	CSMBS3C10	
16	CSMBS3C16X	CSMBS3C16	
20	CSMBS3C20X	CSMBS3C20	
25	CSMBS3C25X	CSMBS3C25	
32	CSMBS3C32X	CSMBS3C32	
40	CSMBS3C40X	CSMBS3C40	
50	CSMBS3C50X	CSMBS3C50	
63	CSMBS3C63X	CSMBS3C63	



Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
1 Pole + N			
0.5	CSMBS1C0.5NX	CSMBS1C0.5N	6
1	CSMBS1C1NX	CSMBS1C1N	
2	CSMBS1C2NX	CSMBS1C2N	
3	CSMBS1C3NX	CSMBS1C3N	
4	CSMBS1C4NX	CSMBS1C4N	
5	CSMBS1C5NX	CSMBS1C5N	
6	CSMBS1C6NX	CSMBS1C6N	
10	CSMBS1C10NX	CSMBS1C10N	
16	CSMBS1C16NX	CSMBS1C16N	
20	CSMBS1C20NX	CSMBS1C20N	
25	CSMBS1C25NX	CSMBS1C25N	
32	CSMBS1C32NX	CSMBS1C32N	
40	CSMBS1C40NX	CSMBS1C40N	
50	CSMBS1C50NX	CSMBS1C50N	
63	CSMBS1C63NX	CSMBS1C63N	

Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
3 Pole + N			
0.5	CSMBS3C0.5NX	CSMBS3C0.5N	3
1	CSMBS3C1NX	CSMBS3C1N	
2	CSMBS3C2NX	CSMBS3C2N	
3	CSMBS3C3NX	CSMBS3C3N	
4	CSMBS3C4NX	CSMBS3C4N	
5	CSMBS3C5NX	CSMBS3C5N	
6	CSMBS3C6NX	CSMBS3C6N	
10	CSMBS3C10NX	CSMBS3C10N	
16	CSMBS3C16NX	CSMBS3C16N	
20	CSMBS3C20NX	CSMBS3C20N	
25	CSMBS3C25NX	CSMBS3C25N	
32	CSMBS3C32NX	CSMBS3C32N	
40	CSMBS3C40NX	CSMBS3C40N	
50	CSMBS3C50NX	CSMBS3C50N	
63	CSMBS3C63NX	CSMBS3C63N	



Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
2 Pole			
0.5	CSMBS2C0.5X	CSMBS2C0.5	6
1	CSMBS2C1X	CSMBS2C1	
2	CSMBS2C2X	CSMBS2C2	
3	CSMBS2C3X	CSMBS2C3	
4	CSMBS2C4X	CSMBS2C4	
5	CSMBS2C5X	CSMBS2C5	
6	CSMBS2C6X	CSMBS2C6	
10	CSMBS2C10X	CSMBS2C10	
16	CSMBS2C16X	CSMBS2C16	
20	CSMBS2C20X	CSMBS2C20	
25	CSMBS2C25X	CSMBS2C25	
32	CSMBS2C32X	CSMBS2C32	
40	CSMBS2C40X	CSMBS2C40	
50	CSMBS2C50X	CSMBS2C50	
63	CSMBS2C63X	CSMBS2C63	

Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
4 Pole			
0.5	CSMBS4C0.5X	CSMBS4C0.5	3
1	CSMBS4C1X	CSMBS4C1	
2	CSMBS4C2X	CSMBS4C2	
3	CSMBS4C3X	CSMBS4C3	
4	CSMBS4C4X	CSMBS4C4	
5	CSMBS4C5X	CSMBS4C5	
6	CSMBS4C6X	CSMBS4C6	
10	CSMBS4C10X	CSMBS4C10	
16	CSMBS4C16X	CSMBS4C16	
20	CSMBS4C20X	CSMBS4C20	
25	CSMBS4C25X	CSMBS4C25	
32	CSMBS4C32X	CSMBS4C32	
40	CSMBS4C40X	CSMBS4C40	
50	CSMBS4C50X	CSMBS4C50	
63	CSMBS4C63X	CSMBS4C63	

C

WiNtrip2 Miniature Circuit Breaker

D-Series

High Inductive Load & High Inrush Current



Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
1 Pole			
0.5	☒ CSMBS1D0.5X	☒ CSMBS1D0.5	12
1	☒ CSMBS1D1X	☒ CSMBS1D1	
2	☒ CSMBS1D2X	☒ CSMBS1D2	
3	☒ CSMBS1D3X	☒ CSMBS1D3	
4	☒ CSMBS1D4X	☒ CSMBS1D4	
5	☒ CSMBS1D5X	☒ CSMBS1D5	
6	☒ CSMBS1D6X	☒ CSMBS1D6	
10	☒ CSMBS1D10X	☒ CSMBS1D10	
16	☒ CSMBS1D16X	☒ CSMBS1D16	
20	☒ CSMBS1D20X	☒ CSMBS1D20	
25	☒ CSMBS1D25X	☒ CSMBS1D25	
32	☒ CSMBS1D32X	☒ CSMBS1D32	
40	☒ CSMBS1D40X	☒ CSMBS1D40	
50	☒ CSMBS1D50X	☒ CSMBS1D50	
63	☒ CSMBS1D63X	☒ CSMBS1D63	

Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
3 Pole			
0.5	☒ CSMBS3D0.5X	☒ CSMBS3D0.5	4
1	☒ CSMBS3D1X	☒ CSMBS3D1	
2	☒ CSMBS3D2X	☒ CSMBS3D2	
3	☒ CSMBS3D3X	☒ CSMBS3D3	
4	☒ CSMBS3D4X	☒ CSMBS3D4	
5	☒ CSMBS3D5X	☒ CSMBS3D5	
6	☒ CSMBS3D6X	☒ CSMBS3D6	
10	☒ CSMBS3D10X	☒ CSMBS3D10	
16	☒ CSMBS3D16X	☒ CSMBS3D16	
20	☒ CSMBS3D20X	☒ CSMBS3D20	
25	☒ CSMBS3D25X	☒ CSMBS3D25	
32	☒ CSMBS3D32X	☒ CSMBS3D32	
40	☒ CSMBS3D40X	☒ CSMBS3D40	
50	☒ CSMBS3D50X	☒ CSMBS3D50	
63	☒ CSMBS3D63X	☒ CSMBS3D63	



Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
1 Pole + N			
0.5	☒ CSMBS1D0.5NX	☒ CSMBS1D0.5N	6
1	☒ CSMBS1D1NX	☒ CSMBS1D1N	
2	☒ CSMBS1D2NX	☒ CSMBS1D2N	
3	☒ CSMBS1D3NX	☒ CSMBS1D3N	
4	☒ CSMBS1D4NX	☒ CSMBS1D4N	
5	☒ CSMBS1D5NX	☒ CSMBS1D5N	
6	☒ CSMBS1D6NX	☒ CSMBS1D6N	
10	☒ CSMBS1D10NX	☒ CSMBS1D10N	
16	☒ CSMBS1D16NX	☒ CSMBS1D16N	
20	☒ CSMBS1D20NX	☒ CSMBS1D20N	
25	☒ CSMBS1D25NX	☒ CSMBS1D25N	
32	☒ CSMBS1D32NX	☒ CSMBS1D32N	
40	☒ CSMBS1D40NX	☒ CSMBS1D40N	
50	☒ CSMBS1D50NX	☒ CSMBS1D50N	
63	☒ CSMBS1D63NX	☒ CSMBS1D63N	

Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
3 Pole + N			
0.5	☒ CSMBS3D0.5NX	☒ CSMBS3D0.5N	3
1	☒ CSMBS3D1NX	☒ CSMBS3D1N	
2	☒ CSMBS3D2NX	☒ CSMBS3D2N	
3	☒ CSMBS3D3NX	☒ CSMBS3D3N	
4	☒ CSMBS3D4NX	☒ CSMBS3D4N	
5	☒ CSMBS3D5NX	☒ CSMBS3D5N	
6	☒ CSMBS3D6NX	☒ CSMBS3D6N	
10	☒ CSMBS3D10NX	☒ CSMBS3D10N	
16	☒ CSMBS3D16NX	☒ CSMBS3D16N	
20	☒ CSMBS3D20NX	☒ CSMBS3D20N	
25	☒ CSMBS3D25NX	☒ CSMBS3D25N	
32	☒ CSMBS3D32NX	☒ CSMBS3D32N	
40	☒ CSMBS3D40NX	☒ CSMBS3D40N	
50	☒ CSMBS3D50NX	☒ CSMBS3D50N	
63	☒ CSMBS3D63NX	☒ CSMBS3D63N	



Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
2 Pole			
0.5	☒ CSMBS2D0.5X	☒ CSMBS2D0.5	6
1	☒ CSMBS2D1X	☒ CSMBS2D1	
2	☒ CSMBS2D2X	☒ CSMBS2D2	
3	☒ CSMBS2D3X	☒ CSMBS2D3	
4	☒ CSMBS2D4X	☒ CSMBS2D4	
5	☒ CSMBS2D5X	☒ CSMBS2D5	
6	☒ CSMBS2D6X	☒ CSMBS2D6	
10	☒ CSMBS2D10X	☒ CSMBS2D10	
16	☒ CSMBS2D16X	☒ CSMBS2D16	
20	☒ CSMBS2D20X	☒ CSMBS2D20	
25	☒ CSMBS2D25X	☒ CSMBS2D25	
32	☒ CSMBS2D32X	☒ CSMBS2D32	
40	☒ CSMBS2D40X	☒ CSMBS2D40	
50	☒ CSMBS2D50X	☒ CSMBS2D50	
63	☒ CSMBS2D63X	☒ CSMBS2D63	

Current rating (A)	Reference (6kA)	Reference (10kA)	Std. Pkg. (Nos.)
4 Pole			
0.5	☒ CSMBS4D0.5X	☒ CSMBS4D0.5	3
1	☒ CSMBS4D1X	☒ CSMBS4D1	
2	☒ CSMBS4D2X	☒ CSMBS4D2	
3	☒ CSMBS4D3X	☒ CSMBS4D3	
4	☒ CSMBS4D4X	☒ CSMBS4D4	
5	☒ CSMBS4D5X	☒ CSMBS4D5	
6	☒ CSMBS4D6X	☒ CSMBS4D6	
10	☒ CSMBS4D10X	☒ CSMBS4D10	
16	☒ CSMBS4D16X	☒ CSMBS4D16	
20	☒ CSMBS4D20X	☒ CSMBS4D20	
25	☒ CSMBS4D25X	☒ CSMBS4D25	
32	☒ CSMBS4D32X	☒ CSMBS4D32	
40	☒ CSMBS4D40X	☒ CSMBS4D40	
50	☒ CSMBS4D50X	☒ CSMBS4D50	
63	☒ CSMBS4D63X	☒ CSMBS4D63	

☒ Non Stockable item

WiNtrip2 Miniature Circuit Breaker

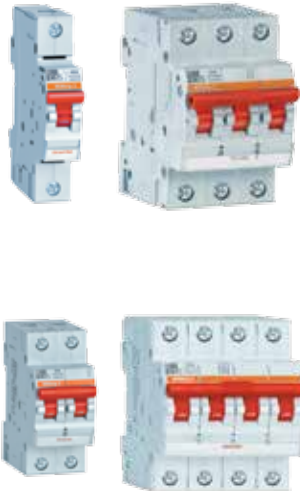
DC-Series



Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
1 Pole		
0.5	☒ CSMBS1DC0.5	12
1	☒ CSMBS1DC1	
2	☒ CSMBS1DC2	
3	☒ CSMBS1DC3	
4	☒ CSMBS1DC4	
5	☒ CSMBS1DC5	
6	☒ CSMBS1DC6	
10	☒ CSMBS1DC10	
16	☒ CSMBS1DC16	
20	☒ CSMBS1DC20	
25	☒ CSMBS1DC25	
32	☒ CSMBS1DC32	
40	☒ CSMBS1DC40	
50	☒ CSMBS1DC50	
63	☒ CSMBS1DC63	

Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
2 Pole		
0.5	☒ CSMBS2DC0.5	6
1	☒ CSMBS2DC1	
2	☒ CSMBS2DC2	
3	☒ CSMBS2DC3	
4	☒ CSMBS2DC4	
5	☒ CSMBS2DC5	
6	☒ CSMBS2DC6	
10	☒ CSMBS2DC10	
16	☒ CSMBS2DC16	
20	☒ CSMBS2DC20	
25	☒ CSMBS2DC25	
32	☒ CSMBS2DC32	
40	☒ CSMBS2DC40	
50	☒ CSMBS2DC50	
63	☒ CSMBS2DC63	

WiNtrip2 Isolator



Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
1 Pole		
25	CSMBS1ISO25	12
40	CSMBS1ISO40	
63	CSMBS1ISO63	
80	CSMBS1ISO80	
100	CSMBS1ISO100	
125	CSMBS1ISO125	

Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
3 Pole		
25	CSMBS3ISO25	4
40	CSMBS3ISO40	
63	CSMBS3ISO63	
80	CSMBS3ISO80	
100	CSMBS3ISO100	
125	CSMBS3ISO125	

2 Pole		
25	CSMBS2ISO25	6
40	CSMBS2ISO40	
63	CSMBS2ISO63	
80	CSMBS2ISO80	
100	CSMBS2ISO100	
125	CSMBS2ISO125	

4 Pole		
25	CSMBS4ISO25	3
40	CSMBS4ISO40	
63	CSMBS4ISO63	
80	CSMBS4ISO80	
100	CSMBS4ISO100	
125	CSMBS4ISO125	

WiNtrip Miniature Circuit Breaker

Technical Data

MCB & Isolator-AC

Specifications	WiNtrip MCB			WiNtrip Isolator
Standard Conformity	IS/IEC60898-1-2002			IS/IEC60947-3
Type	B	C	D	
Rated Current (In)	6-63A	0.5-63A	0.5-63A	25-125A
Rated Voltage AC (Ue)	240/415V			240/415V
Utilization Category				AC22A
Rated Frequency Hz	50/60Hz			50Hz
No. of Poles (Execution)	1P, 1P+N, 2P, 3P, 3P+N & 4P			1P, 2P, 3P & 4P
Rated Short Circuit Breaking Capacity	10kA			
Rated Insulation Voltage (Ui)	(3-5)In	(5-10)In	(10-20)In	
Rated Impulse Voltage (Uimp)	4kV			6kV
Electrical/Mechanical Life				
<32A	30,000			30,000
>32A	10,000			10,000
Ambient working temperature	-25°C to +55°C			-25°C to +55°C
Energy Limiting Class	ELC 3			
Mounting	Clip on Din rail (35 mm x 7.5 mm)			Clip on Din rail (35 mm x 7.5 mm)
Line Terminal Capacity	35 mm ²			35 mm ²
Degree of Protection	IP 20			IP 20
Resistance to Shock	40mm free fall			40mm free fall
Ambient reference temperature	30°C			
Installation Position	Vertical/Horizontal			Vertical/Horizontal

MCB-DC

Circuit Breakers for DC application are engineered to fulfill tough arc quenching conditions. DC MCB incorporates built in magnet to direct the arc into the arc quenching chamber.

Specifications	WiNtrip MCB
Standard Conformity	IEC 60898-2-2003
Rated Current (In)	0.5-63A
Rated Voltage AC (Ue)	220V DC
Utilization Category	-
Poles (Execution)	1P & 2P
Rated Short Circuit Breaking Capacity	10kA
Rated Insulation Voltage (Ui)	660V
Magnetic Release Setting	1.4 (Equivalent of AC MCB)
Rated Impulse Voltage (Uimp)	4kV
Electrical/Mechanical Life with DC Rated current/ Rated Voltage (63A)	1000
Ambient working Temperature	-5°C to 55°C
Mounting	Din Rail
Line Terminal Capacity	35mm
Degree of Protection	IP20
Ambient reference Temperature	30
Installation Position	Vertical /Horizontal

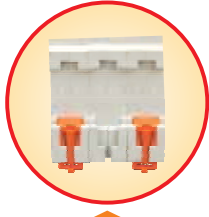
WiNtrip Miniature Circuit Breaker

Technical Data

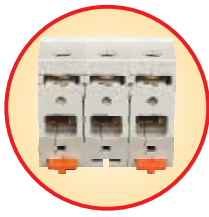
MCB - Higher Rating

Specifications	W Ntrip MCB
Type	'C'
Standard Conformity	IEC 60947-2
Rated Current (In)	80A, 100A, 125A
Rated Voltage AC (Ue)	240/415V
Utilization Category	A
Rated Frequency Hz	50
No. of Poles (Execution)	1P, 1P+N, 2P, 3P, 3P+N & 4P
Rated Short Circuit Breaking Capacity(Icu=Ics)	10KA
Rated Insulation Voltage (Ui)	660
Magnetic Release Setting	8In
Type of Release	Thermal/Magnetic
rated Impulse Voltage (Uimp)	4KV
Electrical/Mechanical Life	4000/10000
Energy Limiting Class	N/A
Mounting	Din rail
Line Terminal Capacity	50 mm ²
Load Terminal Capacity	50 mm ²
High torque terminals up to	5.0Nm
Degree of Protection	IP20
Material group	IIIa
Pollution degree	3
Storage Temperature	-5°C to +70°C
Circuit Breaker for use in IT Systems	Yes
Tropicalisation acc.to EN/IEC 60068-2	95%RH at 55°C
Ambient reference Temperature	40°C
Installation Position	Vertical / Horizontal
Auxiliary contacts	Yes
(Shunt Trip)	Yes

WiNtrip Miniature Circuit Breaker



Two stage easy snapping device for Din Rail Mounting



Bi-connect terminals for Cable and Busbar

Large Terminal Screws

Finger proof Terminal

Air Circulation Channel

Breaking Capacity 10kA

Large Dolly

Padlocking facility

Integrated Label Channel Holder

Combination Head Captive Screw



B-Series

Lighting & Distribution with no Surge Current



Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
1 Pole		
6	CSMB1B6	12
10	CSMB1B10	
16	CSMB1B16	
20	CSMB1B20	
25	CSMB1B25	
32	CSMB1B32	
40	CSMB1B40	
50	CSMB1B50	
63	CSMB1B63	

Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
3 Pole		
6	CSMB3B6	4
10	CSMB3B10	
16	CSMB3B16	
20	CSMB3B20	
25	CSMB3B25	
32	CSMB3B32	
40	CSMB3B40	
50	CSMB3B50	
63	CSMB3B63	



Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
1 Pole + N		
6	CSMB1B6N	6
10	CSMB1B10N	
16	CSMB1B16N	
20	CSMB1B20N	
25	CSMB1B25N	
32	CSMB1B32N	
40	CSMB1B40N	
50	CSMB1B50N	
63	CSMB1B63N	

Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
3 Pole + N		
6	CSMB3B6N	3
10	CSMB3B10N	
16	CSMB3B16N	
20	CSMB3B20N	
25	CSMB3B25N	
32	CSMB3B32N	
40	CSMB3B40N	
50	CSMB3B50N	
63	CSMB3B63N	



Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
2 Pole		
6	CSMB2B6	6
10	CSMB2B10	
16	CSMB2B16	
20	CSMB2B20	
25	CSMB2B25	
32	CSMB2B32	
40	CSMB2B40	
50	CSMB2B50	
63	CSMB2B63	

Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
4 Pole		
6	CSMB4B6	3
10	CSMB4B10	
16	CSMB4B16	
20	CSMB4B20	
25	CSMB4B25	
32	CSMB4B32	
40	CSMB4B40	
50	CSMB4B50	
63	CSMB4B63	

WiNtrip Miniature Circuit Breaker

C-Series

Inductive load with surge current - Motor Circuit Applications



Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
1 Pole		
0.5	CSMB1C0.5	12
1	CSMB1C1	
2	CSMB1C2	
3	CSMB1C3	
4	CSMB1C4	
5	CSMB1C5	
6	CSMB1C6	
10	CSMB1C10	
16	CSMB1C16	
20	CSMB1C20	
25	CSMB1C25	
32	CSMB1C32	
40	CSMB1C40	
50	CSMB1C50	
63	CSMB1C63	
1 Pole + N		
0.5	CSMB1C0.5N	6
1	CSMB1C1N	
2	CSMB1C2N	
3	CSMB1C3N	
4	CSMB1C4N	
5	CSMB1C5N	
6	CSMB1C6N	
10	CSMB1C10N	
16	CSMB1C16N	
20	CSMB1C20N	
25	CSMB1C25N	
32	CSMB1C32N	
40	CSMB1C40N	
50	CSMB1C50N	
63	CSMB1C63N	
2 Pole		
0.5	CSMB2C0.5	6
1	CSMB2C1	
2	CSMB2C2	
3	CSMB2C3	
4	CSMB2C4	
5	CSMB2C5	
6	CSMB2C6	
10	CSMB2C10	
16	CSMB2C16	
20	CSMB2C20	
25	CSMB2C25	
32	CSMB2C32	
40	CSMB2C40	
50	CSMB2C50	
63	CSMB2C63	



Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
3 Pole		
0.5	CSMB3C0.5	4
1	CSMB3C1	
2	CSMB3C2	
3	CSMB3C3	
4	CSMB3C4	
5	CSMB3C5	
6	CSMB3C6	
10	CSMB3C10	
16	CSMB3C16	
20	CSMB3C20	
25	CSMB3C25	
32	CSMB3C32	
40	CSMB3C40	
50	CSMB3C50	
63	CSMB3C63	
3 Pole + N		
0.5	CSMB3C0.5N	3
1	CSMB3C1N	
2	CSMB3C2N	
3	CSMB3C3N	
4	CSMB3C4N	
5	CSMB3C5N	
6	CSMB3C6N	
10	CSMB3C10N	
16	CSMB3C16N	
20	CSMB3C20N	
25	CSMB3C25N	
32	CSMB3C32N	
40	CSMB3C40N	
50	CSMB3C50N	
63	CSMB3C63N	
4 Pole		
0.5	CSMB4C0.5	3
1	CSMB4C1	
2	CSMB4C2	
3	CSMB4C3	
4	CSMB4C4	
5	CSMB4C5	
6	CSMB4C6	
10	CSMB4C10	
16	CSMB4C16	
20	CSMB4C20	
25	CSMB4C25	
32	CSMB4C32	
40	CSMB4C40	
50	CSMB4C50	
63	CSMB4C63	

C

Higher Rating Miniature Circuit Breakers



1 Pole			
80	CSMB1C80	POR	3
100	CSMB1C100		
125	CSMB1C125		
2 Pole			
80	CSMB2C80	POR	3
100	CSMB2C100		
125	CSMB2C125		

IEC:60947-2

3 Pole			
80	CSMB3C80	POR	1
100	CSMB3C100		
125	CSMB3C125		
4 Pole			
80	CSMB4C80	POR	1
100	CSMB4C100		
125	CSMB4C125		

WiNtrip Miniature Circuit Breaker

D-Series

High Inductive Load & High Inrush Current



Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
1 Pole		
0.5	☒ CSMB1D0.5	12
1	☒ CSMB1D1	
2	☒ CSMB1D2	
3	☒ CSMB1D3	
4	☒ CSMB1D4	
5	☒ CSMB1D5	
6	☒ CSMB1D6	
10	☒ CSMB1D10	
16	☒ CSMB1D16	
20	☒ CSMB1D20	
25	☒ CSMB1D25	
32	☒ CSMB1D32	
40	☒ CSMB1D40	
50	☒ CSMB1D50	
63	☒ CSMB1D63	

Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
3 Pole		
0.5	☒ CSMB3D0.5	4
1	☒ CSMB3D1	
2	☒ CSMB3D2	
3	☒ CSMB3D3	
4	☒ CSMB3D4	
5	☒ CSMB3D5	
6	☒ CSMB3D6	
10	☒ CSMB3D10	
16	☒ CSMB3D16	
20	☒ CSMB3D20	
25	☒ CSMB3D25	
32	☒ CSMB3D32	
40	☒ CSMB3D40	
50	☒ CSMB3D50	
63	☒ CSMB3D63	



1 Pole + N		
0.5	☒ CSMB1D0.5N	6
1	☒ CSMB1D1N	
2	☒ CSMB1D2N	
3	☒ CSMB1D3N	
4	☒ CSMB1D4N	
5	☒ CSMB1D5N	
6	☒ CSMB1D6N	
10	☒ CSMB1D10N	
16	☒ CSMB1D16N	
20	☒ CSMB1D20N	
25	☒ CSMB1D25N	
32	☒ CSMB1D32N	
40	☒ CSMB1D40N	
50	☒ CSMB1D50N	
63	☒ CSMB1D63N	

3 Pole + N		
0.5	☒ CSMB3D0.5N	3
1	☒ CSMB3D1N	
2	☒ CSMB3D2N	
3	☒ CSMB3D3N	
4	☒ CSMB3D4N	
5	☒ CSMB3D5N	
6	☒ CSMB3D6N	
10	☒ CSMB3D10N	
16	☒ CSMB3D16N	
20	☒ CSMB3D20N	
25	☒ CSMB3D25N	
32	☒ CSMB3D32N	
40	☒ CSMB3D40N	
50	☒ CSMB3D50N	
63	☒ CSMB3D63N	



2 Pole		
0.5	☒ CSMB2D0.5	6
1	☒ CSMB2D1	
2	☒ CSMB2D2	
3	☒ CSMB2D3	
4	☒ CSMB2D4	
5	☒ CSMB2D5	
6	☒ CSMB2D6	
10	☒ CSMB2D10	
16	☒ CSMB2D16	
20	☒ CSMB2D20	
25	☒ CSMB2D25	
32	☒ CSMB2D32	
40	☒ CSMB2D40	
50	☒ CSMB2D50	
63	☒ CSMB2D63	

4 Pole		
0.5	☒ CSMB4D0.5	3
1	☒ CSMB4D1	
2	☒ CSMB4D2	
3	☒ CSMB4D3	
4	☒ CSMB4D4	
5	☒ CSMB4D5	
6	☒ CSMB4D6	
10	☒ CSMB4D10	
16	☒ CSMB4D16	
20	☒ CSMB4D20	
25	☒ CSMB4D25	
32	☒ CSMB4D32	
40	☒ CSMB4D40	
50	☒ CSMB4D50	
63	☒ CSMB4D63	

☒ Non Stockable item

WiNtrip Miniature Circuit Breaker

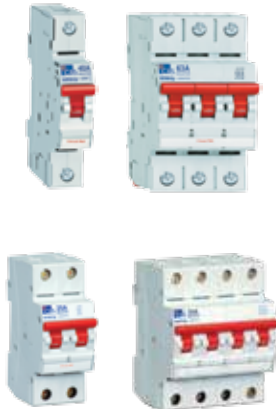
DC-Series



Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
1 Pole		
0.5	<input checked="" type="checkbox"/> CSMB1DC0.5	12
1	<input checked="" type="checkbox"/> CSMB1DC1	
2	<input checked="" type="checkbox"/> CSMB1DC2	
3	<input checked="" type="checkbox"/> CSMB1DC3	
4	<input checked="" type="checkbox"/> CSMB1DC4	
5	<input checked="" type="checkbox"/> CSMB1DC5	
6	<input checked="" type="checkbox"/> CSMB1DC6	
10	<input checked="" type="checkbox"/> CSMB1DC10	
16	<input checked="" type="checkbox"/> CSMB1DC16	
20	<input checked="" type="checkbox"/> CSMB1DC20	
25	<input checked="" type="checkbox"/> CSMB1DC25	
32	<input checked="" type="checkbox"/> CSMB1DC32	
40	<input checked="" type="checkbox"/> CSMB1DC40	
50	<input checked="" type="checkbox"/> CSMB1DC50	
63	<input checked="" type="checkbox"/> CSMB1DC63	

Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
2 Pole		
0.5	<input checked="" type="checkbox"/> CSMB2DC0.5	6
1	<input checked="" type="checkbox"/> CSMB2DC1	
2	<input checked="" type="checkbox"/> CSMB2DC2	
3	<input checked="" type="checkbox"/> CSMB2DC3	
4	<input checked="" type="checkbox"/> CSMB2DC4	
5	<input checked="" type="checkbox"/> CSMB2DC5	
6	<input checked="" type="checkbox"/> CSMB2DC6	
10	<input checked="" type="checkbox"/> CSMB2DC10	
16	<input checked="" type="checkbox"/> CSMB2DC16	
20	<input checked="" type="checkbox"/> CSMB2DC20	
25	<input checked="" type="checkbox"/> CSMB2DC25	
32	<input checked="" type="checkbox"/> CSMB2DC32	
40	<input checked="" type="checkbox"/> CSMB2DC40	
50	<input checked="" type="checkbox"/> CSMB2DC50	
63	<input checked="" type="checkbox"/> CSMB2DC63	

WiNtrip Isolator



Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
1 Pole		
25	CSMB1ISO25	12
40	CSMB1ISO40	
63	CSMB1ISO63	
80	CSMB1ISO80	
100	CSMB1ISO100	
125	CSMB1ISO125	
2 Pole		
25	CSMB2ISO25	6
40	CSMB2ISO40	
63	CSMB2ISO63	
80	CSMB2ISO80	
100	CSMB2ISO100	
125	CSMB2ISO125	

Current rating (Amps.)	Reference	Std. Pkg. (Nos.)
3 Pole		
25	CSMB3ISO25	4
40	CSMB3ISO40	
63	CSMB3ISO63	
80	CSMB3ISO80	
100	CSMB3ISO100	
125	CSMB3ISO125	
4 Pole		
25	CSMB4ISO25	3
40	CSMB4ISO40	
63	CSMB4ISO63	
80	CSMB4ISO80	
100	CSMB4ISO100	
125	CSMB4ISO125	

WiNtrip MCB Type Changeover Switch



Description	Pole / Rating	Reference	Std. Pkg. (Nos.)
Two way centre OFF Changeover Switch	2P/ 25A	CSCOS2P25A	6
Two way centre OFF Changeover Switch	2P/ 40A	CSCOS2P40A	
Two way centre OFF Changeover Switch	2P/ 63A	CSCOS2P63A	
Two way centre OFF Changeover Switch	4P/ 25A	CSCOS4P25A	3
Two way centre OFF Changeover Switch	4P/ 40A	CSCOS4P40A	
Two way centre OFF Changeover Switch	4P/ 63A	CSCOS4P63A	

SmartSol Mini MCB DP



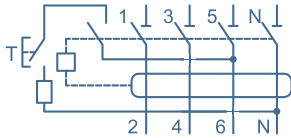
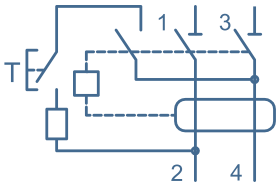
Current rating (Amps.)	Reference	Description
6-32	CSMBSS2C6-32*	DP "C" 6-32A Mini MCB with Enclosure
6-32	CSMBSS1C6-32*N	SPN "C" 6-32A Mini MCB with Enclosure

*While order booking replace 6-32 with required current rating.

Non Stockable item

Accessories (Site fitted with MCB)

Current rating (Amps.)	Shunt Trip	Auxiliary Contact
<input checked="" type="checkbox"/> 1NO+1NC	-	CSMBAXSF
<input checked="" type="checkbox"/> 12VDC	CSMBS012SF	-
<input checked="" type="checkbox"/> 24VDC	CSMBS024SF	-
<input checked="" type="checkbox"/> 48VDC	CSMBS048SF	-
<input checked="" type="checkbox"/> 110VAC	CSMBS110SF	-
<input checked="" type="checkbox"/> 220VAC	CSMBS220SF	-



Bi-connect Terminals



Test Button

Current rating (Amps.)	Reference	Sensitivity	Std. Pkg. (Nos.)
2 Pole			
16	CSRB2P16A30	30	6
16	CSRB2P16A100	100	
16	CSRB2P16A300	300	
25	CSRB2P25A30	30	
25	CSRB2P25A100	100	
25	CSRB2P25A300	300	
32	CSRB2P32A30	30	
32	CSRB2P32A100	100	
32	CSRB2P32A300	300	
40	CSRB2P40A30	30	
40	CSRB2P40A100	100	
40	CSRB2P40A300	300	
63	CSRB2P63A30	30	
63	CSRB2P63A100	100	
63	CSRB2P63A300	300	
80	CSRB2P80A30	30	
80	CSRB2P80A100	100	
80	CSRB2P80A300	300	
100	CSRB2P100A30	30	
100	CSRB2P100A100	100	
100	CSRB2P100A300	300	
4 Pole			
16	CSRB4P16A30	30	3
16	CSRB4P16A100	100	
16	CSRB4P16A300	300	
25	CSRB4P25A30	30	
25	CSRB4P25A100	100	
25	CSRB4P25A300	300	
32	CSRB4P32A30	30	
32	CSRB4P32A100	100	
32	CSRB4P32A300	300	
40	CSRB4P40A30	30	
40	CSRB4P40A100	100	
40	CSRB4P40A300	300	
63	CSRB4P63A30	30	
63	CSRB4P63A100	100	
63	CSRB4P63A300	300	
80	CSRB4P80A30	30	
80	CSRB4P80A100	100	
80	CSRB4P80A300	300	
100	CSRB4P100A30	30	
100	CSRB4P100A100	100	
100	CSRB4P100A300	300	

Note: Rating from 16A to 63A conforms to IS12640-1-2008 and as ISI marked

WiNtrip Distribution Board



Polycarbonate Cover Consumer Unit DB		
Description	Reference	No. of Modules (Incomer+Outgoing)
SPN WC 06 WAY SD WITH ACRYLIC WINDOW	CSDBSPNSDA06	6
SPN WC 08 WAY SD WITH ACRYLIC WINDOW	CSDBSPNSDA08	8
SPN WC 10 WAY SD WITH ACRYLIC WINDOW	CSDBSPNSDA10	10
SPN WC 12 WAY SD WITH ACRYLIC WINDOW	CSDBSPNSDA12	12
SPN WC 16 WAY SD WITH ACRYLIC WINDOW	CSDBSPNSDA16	16



WiNclass Distribution Board (Deepdrawn) SPN WiNclass Distribution Board		
Description	Reference	No. of Modules (Incomer+Outgoing)
2+04 Way Single Door	CSDBSPNSD04S	2+04
2+08 Way Single Door	CSDBSPNSD08S	2+08
2+12 Way Single Door	CSDBSPNSD12S	2+12
2+14 Way Single Door	CSDBSPNSD16S	2+14
2+04 Way Double Door	CSDBSPNDD04S	2+04
2+08 Way Double Door	CSDBSPNDD08S	2+08
2+12 Way Double Door	CSDBSPNDD12S	2+12
2+14 Way Double Door	CSDBSPNDD16S	2+14



WiNtrip Distribution Board (Deepdrawn with Pan Assembly) SPN Distribution Board		
Description	Reference	No. of Modules (Incomer+Outgoing)
04 Way Single Door	CSDBSPNSD04	4
08 Way Single Door	CSDBSPNSD08	8
12 Way Single Door	CSDBSPNSD12	12
16 Way Single Door	CSDBSPNSD16	16
04 Way Double Door	CSDBSPNDD04	4
08 Way Double Door	CSDBSPNDD08	8
12 Way Double Door	CSDBSPNDD12	12
16 Way Double Door	CSDBSPNDD16	16



WiNtrip Distribution Board (Deepdrawn with Pan Assembly) Double Door DB (with Acrylic Window)		
Description	Reference	No. of Modules (Incomer+Outgoing)
SPN Distribution Board Double Door 4 Way	CSDBSPNDDA2+04	
SPN Distribution Board Double Door 8 Way	CSDBSPNDDA2+08	
SPN Distribution Board Double Door 12 Way	CSDBSPNDDA2+12	
SPN Distribution Board Double Door 16 Way	CSDBSPNDDA2+14	



TPN WiNclass Distribution Board		
Description	Reference	No. of Modules (Incomer+Outgoing)
04 Way Single Door DB	CSDBTPNHSD04S	8+12
06 Way Single Door DB	CSDBTPNHSD06S	8+18
08 Way Single Door DB	CSDBTPNHSD08S	8+24
12 Way Single Door DB	CSDBTPNHSD12S	8+36
16 Way Single Door DB	CSDBTPNHSD16S	8+48
04 Way Double Door DB	CSDBTPNHDD04SN	4+12
04 Way Double Door DB	CSDBTPNHDD04S	8+12
06 Way Double Door DB	CSDBTPNHDD06S	8+18
08 Way Double Door DB	CSDBTPNHDD08S	8+24
12 Way Double Door DB	CSDBTPNHDD12S	8+36
16 Way Double Door DB	CSDBTPNHDD16S	8+48

WiNtrip Distribution Board

TPN Distribution Board - Horizontal		
Description	Reference	No. of Modules (Incomer+Outgoing)
04 Way Single Door	CSDBTPNHSD04	8+12
06 Way Single Door	CSDBTPNHSD06	8+18
08 Way Single Door	CSDBTPNHSD08	8+24
12 Way Single Door	CSDBTPNHSD12	8+36
16 Way Single Door	CSDBTPNHSD16	8+48
04 Way Double Door	CSDBTPNHDD04	8+12
06 Way Double Door	CSDBTPNHDD06	8+18
08 Way Double Door	CSDBTPNHDD08	8+24
12 Way Double Door	CSDBTPNHDD12	8+36
16 Way Double Door	CSDBTPNHDD16	8+48



Phase Selector Distribution Board	
TPN Phase Selector DD DB for incorporating MCB / Isolator / RCCB, equipped with 3 Nos 63A Phase selector switches & 3 No Plano Switches	
Description	Reference
4 Way DD with 63A R/S	CSDBPHSDD04RS63
6 Way DD with 63A R/S	CSDBPHSDD06RS63
8 Way DD with 63A R/S	CSDBPHSDD08RS63
12 Way DD with 63A R/S	CSDBPHSDD12RS63
4 Way DD with 40A R/S	CSDBPHSDD04RS40
6 Way DD with 40A R/S	CSDBPHSDD06RS40
8 Way DD with 40A R/S	CSDBPHSDD08RS40
12Way DD with 40A R/S	CSDBPHSDD12RS40
4 Way DD without R/S	CSDBPHSDD04
6 Way DD without R/S	CSDBPHSDD06
8 Way DD without R/S	CSDBPHSDD08
12 Way DD without R/S	CSDBPHSDD12



7 Segment Distribution Board	
Description	Reference
7 Segment TPN DD DB With Provision for FP MCB/Isolator/RCCB as incomer, DP MCB/ Isolator/RCCB as sub incomer and SP MCBs as outgoing	CSDB7SEGDD04
	CSDB7SEGDD06
	CSDB7SEGDD08
	CSDB7SEGDD12
<i>Price on request : Prewired Distribution Board fitted with Busbar, Terminal Block for incoming/outgoing phase neutral & Earth duly wired with Provision for ISO/RCCB/MCB as incomer and SP outgoing (without MCBs)</i>	



FLEXI (Tier) DBs (with Metal Door)	
Description	Reference
FLEXI DD DB 2 ROW 13MODULES	CSDBFLDD2R13
FLEXI DD DB 3 ROW 13MODULES	CSDBFLDD3R13
FLEXI DD DB 4 ROW 13MODULES	CSDBFLDD4R13



WiNtrip Telephone & Television Socket Distribution Board	
TPNH Cable End Box Double Door Distribution Board	
Description	Reference
SPN 04 way Tel & TV Socket DB (2+4)	CSDBSPNDDTELV04
SPN 06 way Tel & TV Socket DB (2+6)	CSDBSPNDDTELV06
SPN 08 way Tel & TV Socket DB (2+8)	CSDBSPNDDTELV08
SPN 10 way Tel & TV Socket DB (2+10)	CSDBSPNDDTELV10
SPN 12 way Tel & TV Socket DB (2+12)	CSDBSPNDDTELV12
SPN 14 way Tel & TV Socket DB (2+14)	CSDBSPNDDTELV14
TPN 04 way Tel & TV Socket DB (8+12)	CSDBTPNDDTELV04
TPN 06 way Tel & TV Socket DB (8+18)	CSDBTPNDDTELV06
TPN 08 way Tel & TV Socket DB (8+24)	CSDBTPNDDTELV08
TPN 12 way Tel & TV Socket DB (8+36)	CSDBTPNDDTELV12



WiNtrip Distribution Board - Vertical



VTPN Distribution Board (with provision for WiNtrip MCB)		
Description	Reference	No. of Modules (Incomer+Outgoing)
4 way Double Door	CSDBTPNVDD04	8+12
6 way Double Door	CSDBTPNVDD06	8+18
8 way Double Door	CSDBTPNVDD08	8+24
12 way Double Door	CSDBTPNVDD12	8+36

VTPN Distribution Board (with provision for WiNtrip2 MCB)		
Description	Reference	No. of Modules (Incomer+Outgoing)
4 way Double Door	CSDBTPNVDD04S	8+12
6 way Double Door	CSDBTPNVDD06S	8+18
8 way Double Door	CSDBTPNVDD08S	8+24
12 way Double Door	CSDBTPNVDD12S	8+36



VTPN Distribution Board (with provision for MCCB as incomer & WiNtrip MCB as outgoing)	
Description	Reference
MCCB as incomer 100A DD04 Way IP43	CSDBMCCB100DD04IP43
MCCB as incomer 100A DD08 Way IP43	CSDBMCCB100DD08IP43
MCCB as incomer 100A DD12 Way IP43	CSDBMCCB100DD12IP43
MCCB as incomer 225A DD04 Way IP43	CSDBMCCB225DD04IP43
MCCB as incomer 225A DD08 Way IP43	CSDBMCCB225DD08IP43
MCCB as incomer 225A DD12 Way IP43	CSDBMCCB225DD12IP43

VTPN Distribution Board (with provision for MCCB as incomer & WiNtrip2 MCB as outgoing)	
Description	Reference
MCCB as incomer 100A DD04 Way IP43	CSDBMCCB100DD04IP43S
MCCB as incomer 100A DD08 Way IP43	CSDBMCCB100DD08IP43S
MCCB as incomer 100A DD12 Way IP43	CSDBMCCB100DD12IP43S
MCCB as incomer 225A DD04 Way IP43	CSDBMCCB225DD04IP43S
MCCB as incomer 225A DD08 Way IP43	CSDBMCCB225DD08IP43S
MCCB as incomer 225A DD12 Way IP43	CSDBMCCB225DD12IP43S



MCCB Selection Guide				
Description	Product Code	Product Code	Type/ Breaking Capacity (Icu)	MCCB Rating
3 Pole & 4 Pole CS2A3* CSC1N3* CSC1N4* CSC1S3* CSC1S4* CSC2N3* CSC2N4*	CSDBMCCB100DD04IP43	CSDBMCCB100DD04IP43S	CS2A3=10kA	15, 20, 30, 32, 40, 50, 60, 63, 75 & 100A
	CSDBMCCB100DD08IP43	CSDBMCCB100DD08IP43S	CS2AA3=14kA CS2AA4=14kA	15, 20, 30, 32, 40, 50, 60, 63, 75 & 100A
	CSDBMCCB100DD12IP43	CSDBMCCB100DD12IP43S	CSC1S=18kA CSC2N=18kA	15, 20, 30, 40 & 50A 60, 75 & 100A
3 Pole & 4 Pole CSC4N3* CSC4N4* CSC4S3* CSC4S4*	CSDBMCCB225DD04IP43	CSDBMCCB225DD04IP43S	CSC4N=26kA	100, 125, 150, 175 200 & 250A
	CSDBMCCB225DD08IP43	CSDBMCCB225DD08IP43S		
	CSDBMCCB225DD12IP43	CSDBMCCB225DD12IP43S	CSC4S=37kA	150, 175, 200 & 250A

Note: 1. Replace "*" by rated current required.

C&S Distribution Board - Fabricated / Retail



SPN Distribution Board - Fabricated		
Description	Reference	No. of Modules (Incomer+Outgoing)
4 way Double Door	CSDBSPNFDD04	4
8 way Double Door	CSDBSPNFDD08	8
12 way Double Door	CSDBSPNFDD12	12
16 way Double Door	CSDBSPNFDD16	16



TPN Horizontal Distribution Board- Fabricated		
Description	Reference	No. of Modules (Incomer+Outgoing)
4 way Double Door	CSDBTPNHFDD04	8+12
6 way Double Door	CSDBTPNHFDD06	8+18
8 way Double Door	CSDBTPNHFDD08	8+24
12 way Double Door	CSDBTPNHFDD12	8+36



TPN Vertical Distribution Board- Fabricated		
Description	Reference	No. of Modules (Incomer+Outgoing)
4 way Double Door	CSDBTPNVFDD04	8+12
6 way Double Door	CSDBTPNVFDD06	8+18
8 way Double Door	CSDBTPNVFDD08	8+24
12 way Double Door	CSDBTPNVFDD12	8+36



SPN Distribution Board - Flush Type Deep Drawn (with Double Pole 100A Isolator)		
Description	Reference	No. of Modules (Incomer+Outgoing)
4Way Double Door consumer unit fitted with Isolator	CSDBSPNDD2+04MBS2ISO100F	2+4
6Way Double Door consumer unit fitted with Isolator	CSDBSPNDD2+06MBS2ISO100F	2+6
8Way Double Door consumer unit fitted with Isolator	CSDBSPNDD2+08MBS2ISO100F	2+8
10Way Double Door consumer unit fitted with Isolator	CSDBSPNDD2+10MBS2ISO100F	2+10
12Way Double Door consumer unit fitted with Isolator	CSDBSPNDD2+12MBS2ISO100F	2+12
14Way Double Door consumer unit fitted with Isolator	CSDBSPNDD2+14MBS2ISO100F	2+14

SPN Distribution Board - Fabricated (Consumer unit without Isolator)			
Description	Reference		No. of Modules (Incomer+Outgoing)
	Surface Type	Flush Type	
4Way Double door consumer unit	CSDBSPNFEDD2+04	CSDBSPNFFADD2+04	2+4
6Way Double door consumer unit	CSDBSPNFEDD2+06	CSDBSPNFFADD2+06	2+6
8Way Double door consumer unit	CSDBSPNFEDD2+08	CSDBSPNFFADD2+08	2+8
10Way Double door consumer unit	CSDBSPNFEDD2+10	CSDBSPNFFADD2+10	2+10
12Way Double door consumer unit	CSDBSPNFEDD2+12	CSDBSPNFFADD2+12	2+12
14Way Double door consumer unit	CSDBSPNFEDD2+14	CSDBSPNFFADD2+14	2+14



WiNtrip Cable End Box	
TPNH Cable End Box	
Description	Reference
TPNH 4 way	CSDBCBTPNHDD04
TPNH 6 way	CSDBCBTPNHDD06
TPNH 8 way	CSDBCBTPNHDD08
TPNH 12 way	CSDBCBTPNHDD12
TPNH 16 way	CSDBCBTPNHDD16

TPNV Cable End Box	
Description	Reference
TPNV 4 way	CSDBCBTPNVDD
TPNV 8 way	CSDBCBTPNVDD
TPNV 12 way	CSDBCBTPNVDD



WiNtrip Plug & Socket DBs (without MCB)		
Powder Coated Sheet Metal Deep Drawn DBs with Plug & Socket including insulated Neutral link, adjustable Din Rail and connecting links.		
Description	Reference	Std. Pkg. (No.s)
10Amp SPN	CSDBPSSPN010	12
20Amp SPN	CSDBPSSPN020	12
20Amp SPN (SP Cutout)	CSDBPSSPN020SP	12
20Amp TPN	CSDBPSTPN020	6
30Amp TPN	CSDBPSTPN030	6

WiNtrip Plug and Sockets (Metal Clad)		
Description	Reference	Std. Pkg. (No.s)
10Amp SPN Plug	CSDBPSPN010	36
10Amp SPN Socket	CSDBSSPN010	36
20Amp SPN Plug	CSDBPSPN020	36
20Amp SPN Socket	CSDBSSPN020	36
20Amp TPN Plug	CSDBPTPN020	36
20Amp TPN Socket	CSDBSTPN020	36
30Amp TPN Plug	CSDBPTPN030	36
30Amp TPN Socket	CSDBSTPN030	36



WiNtrip Metal Enclosures (with din rail) for mounting MCBs / RCCBs / Isolators		
Description	Reference	Std. Pkg. (No.s)
SP Enclosure	CSDBMCEBSP	24
DP Enclosure	CSDBMCEBDP	24
TP Enclosure	CSDBMCEBTP	12
FP Enclosure	CSDBMCEBFP	12



MCB Enclosure IP55		
4 Pole		
Description	Reference	Std. Pkg. No.s)
Enclosure 04 Way	CSDBEP04	1

WiNtrip Plastic Enclosure without MCB	
Description	Reference
Plastic MCB Enclosure SP&DP/STD	CSDBMCEBPPD
Plastic MCB Enclosure TP&FP/STD	CSDBMCEBPPF

Enclosures in SP/DP with ciling arrangement are also available on request.



LED

L I G H T S

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- DOWN LIGHTS
- BATTENS
- LAMPS & TUBES
- MODULAR CEILING LIGHTS
- STREET LIGHTS
- FLOOD LIGHTS
- INDUSTRIAL LIGHTS
- LANDSCAPE LIGHTS
- CONVENTIONAL LIGHTING



DOWN LIGHTS

LED SLIM DOWNLIGHT: CARINA SERIES



Carina RND

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG.(NOS.)
CARINA-RND/6W/W	LTCRSLM6HPLEDRND/W	6W WHITE	10
CARINA-RND/9W/W	LTCRSLM9HPLEDRND/W	9W WHITE	10
CARINA-RND/12W/W	LTCRSLM12HPLEDRND/W	12W WHITE	10
CARINA-RND/16W/W	LTCRSLM16HPLEDRND/W	16W WHITE	10
CARINA-RND/20W/W	LTCRSLM20HPLEDRND/W	20W WHITE	10

LED Round Recess PDC Aluminium Housing Downlights.
Warm white available on request



Carina SQ

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CARINA-SQ/6W/W	LTCRSLM6HPLEDSQ/W	6W WHITE	10
CARINA-SQ/9W/W	LTCRSLM9HPLEDSQ/W	9W WHITE	10
CARINA-SQ/12W/W	LTCRSLM12HPLEDSQ/W	12W WHITE	10
CARINA-SQ/16W/W	LTCRSLM16HPLEDSQ/W	16W WHITE	10
CARINA-SQ/20W/W	LTCRSLM20HPLEDSQ/W	20W WHITE	10

LED Square Recess PDC Aluminium Housing Downlights.
Warm white available on request

LED DEEP DOWNLIGHT: DHRUV SERIES



Dhruv

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
DHRUV/6W/W	LTCR2X3HPLED/W	6W WHITE	12
DHRUV/9W/W	LTCR3X3HPLED/W	9W WHITE	12
DHRUV/12W/W	LTCR4X3HPLED/W	12W WHITE	12
DHRUV/15W/W	LTCR5X3HPLED/W	15W WHITE	12
DHRUV/18W/W	LTCR6X3HPLED/W	18W WHITE	12
DHRUV/24W/W	LTCR8X3HPLED/W	24W WHITE	12

LED Round Recess PDC Aluminium Housing Downlights with extra large fins.
Warm white available on request

LED DOWNLIGHT: LUPUS SERIES



Lupus

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
LUPUS-RND/3W/W	LTCR3CBRLEDRND/W	3W WHITE	20
LUPUS-RND/6W/W	LTCR6CBRLEDRND/W	6W WHITE	20
LUPUS-RND/12W/W	LTCR12CBRLEDRND/W	12W WHITE	20
LUPUS-RND/24W/W	LTCR24CBRLEDRND/W	24W WHITE	20

LED COB PDC aluminium housing eyeball deep downlights with swivelable design and anti-glare effect
Warm white available on request

LED DOWNLIGHT: LYRA SERIES



Lyra

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
LYRA-RND/3W/W	LTCR3CBLEDRND/W	3W WHITE	20
LYRA-RND/6W/W	LTCR6CBLEDRND/W	6W WHITE	20
LYRA-RND/12W/W	LTCR12CBLEDRND/W	12W WHITE	20
LYRA-RND/24W/W	LTCR24CBLEDRND/W	24W WHITE	20

LED COB PDC aluminium housing eyeball downlights with swivelable design.
Warm white available on request



Dhruvi

LED COMPACT DOWNLIGHT: DHRUVI SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
DHRUVI/6W	LTGR6HPLEDRND/W	6W WHITE	40

LED Round Recess Polycarbonate Housing Downlights, suitable for concealed boxes.



Corona RND

LED SURFACE MOUNTED DOWNLIGHT: CORONA SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CORONA-RND/6W/W	LTCRSUR6HPLEDRND/W	6W WHITE	18
CORONA-RND/9W/W	LTCRSUR9HPLEDRND/W	9W WHITE	18
CORONA-RND/12W/W	LTCRSUR12HPLEDRND/W	12W WHITE	18
CORONA-RND/18W/W	LTCRSUR18HPLEDRND/W	18W WHITE	18

LED Round Surface PDC Aluminium Housing Downlights.
Warm white available on request



Corona SQ

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CORONA-SQ/6W/W	LTCRSUR6HPLEDSQ/W	6W WHITE	16
CORONA-SQ/9W/W	LTCRSUR9HPLEDSQ/W	9W WHITE	16
CORONA-SQ/12W/W	LTCRSUR12HPLEDSQ/W	12W WHITE	16
CORONA-SQ/18W/W	LTCRSUR18HPLEDSQ/W	18W WHITE	16

LED Square Surface PDC Aluminium Housing Downlights.
Warm white available on request



e-Tonda

LED PORCH LIGHT: e-TONDA SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
e-TONDA/6W	CG80B6WLED	6W WHITE	4
e-TONDA/9W	CG80B9WLED	9W WHITE	4
e-TONDA/12W	CG80B12WLED	12W WHITE	4

Surface mounted LED Porch Light in engineering plastic housing with clear prismatic diffuser.

BATTENS

LED INTEGRATED BATTEN T5: NAKSHATRA SERIES



PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
NAKSHATRA/5W/W	LTTB1F5WLED/W	5W - 1FT WHITE	20
NAKSHATRA/10W/W	LTTB2F10WLED/W	10W - 2FT WHITE	20
NAKSHATRA/16W/W	LTTB4F16WLED/W	16W - 4FT WHITE	20
NAKSHATRA/20W/W	LTTB4F20WLED/W	20W - 4FT WHITE	20

Indoor decorative aluminium extruded T5 LED Battens - integrated type.

LED INTEGRATED BATTEN T5: NAKSHATRA-P SERIES



PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
NAKSHATRA-P/10W/W	LTTB2F10WLEDP/W	10W - 2FT WHITE	20
NAKSHATRA-P/16W/W	LTTB4F16WLEDP/W	16W - 4FT WHITE	20
NAKSHATRA-P/20W/W	LTTB4F20WLEDP/W	20W - 4FT WHITE	20

Indoor decorative PVC extruded T5 LED Battens - integrated type.

LED BATTEN T8: TARA-M & TARA-Mi SERIES



PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
TARA-M/10W	LTDC01210WLED/WD	10W - 2FT WHITE	10
TARA-M/20W	LTDC01220WLED/WD	20W - 4FT WHITE	10
TARA-Mi/20W	LTDC01220WLED/WDI	20W - 4FT WHITE	10

LED CRCA batten with decorative end cap complete with retrofit T8 Polycarbonate / Glass Tube

LED BATTEN T8: TARA-E & TARA-Ei SERIES



PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
TARA-E/20W	LTDC1220WLED/WD	20W - 4FT WHITE	10
TARA-Ei/20W	LTDC1220WLED/WDI	20W - 4FT WHITE	10

LED CRCA batten complete with retrofit T8 Polycarbonate / Glass Tube

LAMPS & TUBES

LED T8 RETROFIT TUBELIGHT: TARA SERIES



PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
TARA/10W	LT2F10WLEDT8/WD	10W - 2FT WHITE	20
TARA/16W	LT4F16WLEDT8/WD	16W - 4FT WHITE	20
TARA/20W	LT4F20WLEDT8/WD	20W - 4FT WHITE	20

LED retrofit T8 polycarbonate tube for replacing 2 ft. & 4ft. fluorescent tubelight.

LED T8 RETROFIT TUBELIGHT: TARA-i SERIES



PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
TARA-i/20W	LT4F20WLEDT8/WDI	20W - 4FT WHITE	20

LED retrofit T8 glass tube for replacing 4ft. fluorescent tubelight.

LED T5 RETROFIT TUBELIGHT: TARIKA SERIES



PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
TARIKA/18W	LT4F18WLEDT5/WD	18W - 4FT WHITE	20

LED retrofit T5 Tube with polycarbonate diffuser and aluminium heat sink for replacing 4ft. fluorescent tubelight.

LED RETROFIT LAMP: CHANDRA SERIES



PRODUCTCODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CHANDRA/0.5W/R	LTHPLEDLAMP0.5W/B22/R	0.5W RED	100
CHANDRA/0.5W/W	LTHPLEDLAMP0.5W/B22/W	0.5W WHITE	100
CHANDRA/0.5W/G	LTHPLEDLAMP0.5W/B22/G	0.5W GREEN	100
CHANDRA/0.5W/B	LTHPLEDLAMP0.5W/B22/B	0.5W BLUE	100
CHANDRA/0.5W/Y	LTHPLEDLAMP0.5W/B22/Y	0.5W YELLOW	100

LED retrofit lamp B-22 holder base with polycarbonate diffuser and aluminium heat sink.

LED RETROFIT LAMP: CHANDRA SERIES



PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CHANDRA/5W/W	LTHPLEDLAMP5W/B22	5W WHITE	60
CHANDRA/7W/W	LTHPLEDLAMP7W/B22	7W WHITE	60
CHANDRA/9W/W	LTHPLEDLAMP9W/B22	9W WHITE	60
CHANDRA/12W/W	LTHPLEDLAMP12W/B22	12W WHITE	60
CHANDRA/15W/W	LTHPLEDLAMP15W/B22	15W WHITE	60

LED retrofit lamp B-22 holder base with polycarbonate diffuser and aluminium heat sink.

MODULAR CEILING LIGHTS

LED ULTRA SLIM PANEL: CYGNUS SERIES



Cygnus

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CYGNUS/18W/W	LTCRSLM18WATT1X1	18W - 1'X1'	2
CYGNUS/36W/W	LTCRSLM36WATT2X2	36W - 2'X2'	2
CYGNUS/45W/W	LTCRSLM45WATT2X2	45W - 2'X2'	2

Recess mounting LED ultra slim ceiling light with extruded aluminium housing and milky diffuser.



Cygnus

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CYGNUS/24W/W	LTCRSLM24WATT1X2	24W - 1'X2'	2
CYGNUS/28W/W	LTCRSLM28WATT1X2	28W - 1'X2'	2

Recess mounting LED ultra slim ceiling light with extruded aluminium housing and milky diffuser.

LED BACKLIT PANEL: CYGNUS-C SERIES



Cygnus-C

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CYGNUS-C/18W/1X1/W	LTCRP18WLED1X1	18W - 1'X1'	2
CYGNUS-C/36W/2X2/W	LTCRP36WLED2X2	36W - 2'X2'	2
CYGNUS-C/45W/2X2/W	LTCRP45WLED2X2	45W - 2'X2'	2

Recess mounting powder coated white CRCA full glow LED panel.



Cygnus-C

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CYGNUS-C/28W/1X2/W	LTCRP28WLED1X2	28W - 1'X2'	2
CYGNUS-C/36W/1X4/W	LTCRP36WLED1X4	36W - 1'X4'	2

Recess mounting powder coated white CRCA full glow LED panel.

LED SURFACE MOUNTED BACKLIT PANEL: CYGNUS-CS SERIES



Cygnus-CS

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CYGNUS-CS /18W/1X1/W	LTCSP18WLED1X1	18W - 1'X1'	2
CYGNUS-CS /36W/2X2/W	LTCSP36WLED2X2	36W - 2'X2'	2
CYGNUS-CS /45W/2X2/W	LTCSP45WLED2X2	45W - 2'X2'	2

Surface mounting powder coated white CRCA full glow LED panel.



Cygnus-CS

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CYGNUS-CS /28W/1X2/W	LTCSP28WLED1X2	28W - 1'X2'	2
CYGNUS-CS /36W/1X4/W	LTCSP36WLED1X4	36W - 1'X4'	2

Surface mounting powder coated white CRCA full glow LED panel.

STREET LIGHTS

LED STREET LIGHT: DRACO SERIES



PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
DRACO/12W	LTESS12WLED	12W	8
DRACO/15W	LTESS15WLED	15W	8
DRACO/18W	LTESS18WLED	18W	8
DRACO/20W	LTESS20WLED	20W	8
DRACO/25W	LTESS25WLED	25W	8
DRACO/30W	LTESS30WLED	30W	8

Powder coated pressure die cast aluminium compact LED Street light.

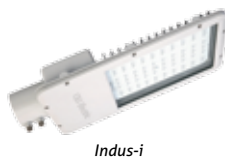
LED STREET LIGHT: INDUS-E SERIES



PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
INDUS-E/12W	LTESSE12WLED	12W	1
INDUS-E/15W	LTESSE15WLED	15W	1
INDUS-E/18W	LTESSE18WLED	18W	1
INDUS-E/20W	LTESSE20WLED	20W	1
INDUS-E/25W	LTESSE25WLED	25W	1
INDUS-E/30W	LTESSE30WLED	30W	1
INDUS-E/36W	LTESSE36WLED	36W	1

Powder coated pressure die cast aluminium SMD LED Street light with integrated lens.

LED STREET LIGHT: INDUS-i SERIES



PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
INDUS-i/25W	LTESSI25WLED	25W	1
INDUS-i/30W	LTESSI30WLED	30W	1
INDUS-i/36W	LTESSI36WLED	36W	1
INDUS-i/45W	LTESSI45WLED	45W	1
INDUS-i/60W	LTESSI60WLED	60W	1
INDUS-i/70W	LTESSI70WLED	70W	1
INDUS-i/90W	LTESSI90WLED	90W	1
INDUS-i/120W	LTESSI120WLED	120W	1
INDUS-i/150W	LTESSI150WLED	150W	1

Powder coated pressure die cast aluminium SMD LED Street light with heat resistant toughened glass.

LED STREET LIGHT: INDUS SERIES



Indus

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
INDUS/20W/LS	LTESS8X2.5HPLED/LS	20W	1
INDUS/25W/LS	LTESS10X2.5HPLED/LS	25W	1
INDUS/30W/LS	LTESS12X2.5HPLED/LS	30W	1
INDUS/36W/LS	LTESS14X2.5HPLED/LS	36W	1
INDUS/45W/LS	LTESS18X2.5HPLED/LS	45W	1
INDUS/60W/LS	LTESS24X2.5HPLED/LS	60W	1
INDUS/70W/LS	LTESS30X2.5HPLED/LS	70W	1
INDUS/90W/LS	LTESS40X2.5HPLED/LS	90W	1
INDUS/120W/LS	LTESS48X2.5HPLED/LS	120W	1
INDUS/140W/LS	LTESS140WHPLED/LS	140W	1
INDUS/150W/LS	LTESS150WHPLED/LS	150W	1
INDUS/180W/LS	LTESS180WHPLED/LS	180W	1
INDUS/200W/LS	LTESS200WHPLED/LS	200W	1
INDUS/220W/LS	LTESS220WHPLED/LS	220W	1
INDUS/250W/LS	LTESS250WHPLED/LS	250W	1

Powder coated pressure die cast aluminium High Power LED Street light with heat resistant toughened glass with lens.

SMART LED STREET LIGHT: INDUS-S SERIES



Indus-S

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
INDUS-S/75W	LTESS75WHPLED/LS	75W	1
INDUS-S/100W	LTESS100WHPLED/LS	100W	1
INDUS-S/120W	LTESS120WHPLED/LS	120W	1
INDUS-S/150W	LTESS150WHPLED/LS	150W	1
INDUS-S/200W	LTESS200WHPLED/LS	200W	1
INDUS-S/240W	LTESS240WHPLED/LS	240W	1

Powder coated pressure die cast aluminium High power LED street light with heat resistance toughened glass with lens and dimming driver (0V-10V DC input control voltage for 0% to 100% dimming) compatible to Dali / Zigbee/ Analog input through Wifi / Bluetooth / GPRS / GSM / Ethernet / RF etc.

DC LED STREET LIGHT: LIBRA SERIES



Libra

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
LIBRA/12W	LTESSL12WLED	12W	1
LIBRA/15W	LTESSL15WLED	15W	1
LIBRA/18W	LTESSL18WLED	18W	1

Powder coated pressure die cast aluminium DC operated SMD LED Street light.

FLOOD LIGHTS

LED FLOOD LIGHT: ORION-C SERIES



Orion-c

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
ORION-C/20W/W	LTEFC20WHPLED/W	20W WHITE	6
ORION-C/30W/W	LTEFC30WHPLED/W	30W WHITE	6
ORION-C/50W/W	LTEFC50WHPLED/W	50W WHITE	6

COB LED floodlight with pressure die-cast aluminium housing, complete with all accessories.

Add "WW" for Warm White color e.g. LTEFC30WHPLED/WW

LED FLOOD LIGHT: ORION 1.0 SERIES



Orion 1.0

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
ORION-1.0/30W	LTEFI30WHPLED	30W	1
ORION-1.0/50W	LTEFI50WHPLED	50W	1
ORION-1.0/75W	LTEFI75WHPLED	75W	1

SMD LED floodlight with pressure die-cast aluminium housing, complete with all accessories.

LED FLOOD LIGHT: ORION 2.0 SERIES



Orion 2.0

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
ORION-2.0/100W	LTEFI100WHPLED	100W	1
ORION-2.0/120W	LTEFI120WHPLED	120W	1
ORION-2.0/150W	LTEFI150WHPLED	150W	1
ORION-2.0/200W	LTEFI200WHPLED	200W	1
ORION-2.0/240W	LTEFI240WHPLED	240W	1

SMD LED floodlight with pressure die-cast aluminium housing, complete with all accessories.

LED FLOOD LIGHT: ORION 3.0 SERIES



Orion 3.0

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
ORION-3.0/50W	LTEF50WHPLED	50W	1
ORION-3.0/60W	LTEF60WHPLED	60W	1
ORION-3.0/80W	LTEF80WHPLED	80W	1
ORION-3.0/90W	LTEF90WHPLED	90W	1
ORION-3.0/100W	LTEF100WHPLED	100W	1
ORION-3.0/120W	LTEF120WHPLED	120W	1
ORION-3.0/150W	LTEF150WHPLED	150W	1
ORION-3.0/160W	LTEF160WHPLED	160W	1
ORION-3.0/180W	LTEF180WHPLED	180W	1
ORION-3.0/200W	LTEF200WHPLED	200W	1

SMD LED floodlight with pressure die-cast aluminium housing, complete with all accessories.

C



Orion-H

HIGH WATTAGE LED FLOOD LIGHT: ORION-H SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
ORION-H/200W/W	LTEFH200WHPLED/W	200W	1
ORION-H/400W/W	LTEFH400WHPLED/W	400W	1
ORION-H/600W/W	LTEFH600WHPLED/W	600W	1
ORION-H/800W/W	LTEFH800WHPLED/W	800W	1

SMD LED Flood Light with Pressure Die Cast Aluminium housing, complete with all accessories
 Available in Multiple options of Beam angle to meet different application requirement 13°, 30°, 60°, 90° & 120°.



Orion-A

ARCHITECTURAL LED FLOOD LIGHT: ORION-A SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
ORION-A/200W/R	LTEFA200WHPLED/R	200W	1
ORION-A/400W/R	LTEFA400WHPLED/R	400W	1

SMD LED Color Flood Light with Pressure Die Cast Aluminium housing, complete with all accessories
 Available in Multiple color options & Beam angle (13°, 30°, 60°, 90° & 120°) to meet different application requirement. Add "R" for RED, "G" for GREEN, "B" for BLUE, V for VIOLET & Y for YELLOW COLOR e.g. LTEFA200WHPLED/R

INDUSTRIAL LIGHTS

LED WELL GLASS: ARIES SERIES



Aries

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
ARIES/25W	LTIW25WLED	25W	1
ARIES/35W	LTIW35WLED	35W	1
ARIES/40W	LTIW40WLED	40W	1
ARIES/45W	LTIW45WLED	45W	1
ARIES/60W	LTIW60WLED	60W	1

High pressure die-cast aluminium LED well glass with polycarbonate diffuser.

LED HIGH / MIDBAY: CORVUS SERIES



Corvus

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG.(NOS.)
CORVUS/75W	LTEHB75WHPLED/LS	75W	1
CORVUS/90W	LTEHB90WHPLED/LS	90W	1
CORVUS/120W	LTEHB120WHPLED/LS	120W	1
CORVUS/150W	LTEHB150WHPLED/LS	150W	1
CORVUS/200W	LTEHB200WHPLED/LS	200W	1

Integral industrial High Power LED High/Midbay with pressure die-cast aluminium housing, anodised aluminium reflector, complete with all accessories.

LED BAY LIGHT: ORION SERIES



Orion

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
ORION/50W	LTEF50WHPLED	50W	1
ORION/60W	LTEF60WHPLED	60W	1
ORION/80W	LTEF80WHPLED	80W	1
ORION/90W	LTEF90WHPLED	90W	1
ORION/100W	LTEF100WHPLED	100W	1
ORION/120W	LTEF120WHPLED	120W	1
ORION/150W	LTEF150WHPLED	150W	1
ORION/160W	LTEF160WHPLED	160W	1
ORION/180W	LTEF180WHPLED	180W	1
ORION/200W	LTEF200WHPLED	200W	1

SMD LED bay light with pressure die-cast aluminium housing, complete with all accessories.



Crux

LED INDUSTRIAL BATTEN: CRUX SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CRUX/1X20W	LTIC00120WLED/WD	1X20W	10
CRUX/2X20W	LTIC00220WLED/WD	2X20W	10

LED indoor industrial CRCA MS box type luminaire complete with LED retrofit T8 polycarbonate tube.



Crux-i

LED INDUSTRIAL BATTEN: CRUX-i SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CRUX-i/1X20W	LTIC00120WLED/WDI	1X20W	10
CRUX-i/2X20W	LTIC00220WLED/WDI	2X20W	10

LED indoor industrial CRCA MS box type luminaire complete with LED retrofit T8 Glass tube.



Dorado

LED JET PROOF BATTEN: DORADO SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
DORADO/20W	LTIC20WLED/WD	20W	10
DORADO/40W	LTIC40WLED/WD	40W	10

LED Jet proof batten of sturdy vandal resistant polycarbonate housing and diffuser.



Ursa

LED CANOPY LIGHT: URSA SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
URSA/80W	LTEC80WHPLED	80W	1

SMD LED canopy light with pressure die-cast aluminium housing, complete with all accessories.



e-Tarta

LED BULK HEAD: e-TARTA SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
e-TARTA/6W	CG80IB6WLED	6W WHITE	4
e-TARTA/10W	CG80IB10WLED	10W WHITE	4

LED bulk head in engineering plastic housing with clear prismatic diffuser.



Sirius

LED BULK HEAD: SIRIUS SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
SIRIUS/7W	LTB7WLED	7W WHITE	20
SIRIUS/10W	LTB10WLED	10W WHITE	20
SIRIUS/12W	LTB12WLED	12W WHITE	20
SIRIUS/20W	LTB20WLED	20W WHITE	10

LED Bulk Head with PDC aluminium housing and milky diffuser.

LANDSCAPE LIGHTS

LED POST TOP LANTERN: APUS SERIES



Apus

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
APUS/30W	LTGL30-24X1HPLED	30W	1
APUS/40W	LTGL40WHPLED/W	40W	1
APUS/60W	LTGL60WHPLED/W	60W	1

Decorative LED Post top lantern luminaire with diffuser and painted aluminium deflector.

LED POST TOP LANTERN: CETUS SERIES



Cetus

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CETUS/20W	LTGLC20WHPLED/W	20W	1
CETUS/30W	LTGLC30WHPLED/W	30W	1
CETUS/40W	LTGLC40WHPLED/W	40W	1

Decorative LED Post top lantern luminaire with diffuser and painted spun aluminium deflector.

LED BOLLARD: CANIS SERIES



Canis

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CANIS/6W	LTGLCW6WLED	6W	6
CANIS/9W	LTGLCW9WLED	9W	6

Decorative LED Bollard light with opal diffuser & aluminium reflector.

LED BOLLARD: CANIS-M SERIES



Canis-m

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
CANIS-M/6W	LTGLCM6WLED	6W	6

Decorative LED Bollard light with opal diffuser & aluminium reflector.

LED BOLLARD: MUSCA SERIES



Musca

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
MUSCA/6W	LTGLC6WLED	6W	6
MUSCA/9W	LTGLC9WLED	9W	6

Decorative LED Bollard light with opal diffuser & aluminium reflector.

LED BOLLARD: MUSCA-M SERIES



Musca-m

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
MUSCA-M/6W	LTGLCN6WLED	6W	6

Decorative LED Bollard light with opal diffuser & aluminium reflector.

LED BOLLARD: LYNX SERIES



Lynx

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
LYNX/6W	LTGLCR6WLED	6W	6
LYNX/9W	LTGLCR9WLED	9W	6

Decorative LED Bollard light with opal diffuser & aluminium reflector.



Lynx-m

LED BOLLARD: LYNX-M SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
LYNX-M/6W	LTGLCRM6WLED	6W	6
Decorative LED Bollard light with opal diffuser & aluminium reflector.			



Grus

LED BOLLARD: GRUS SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
GRUS/6W	LTGLCG6WLED	6W	6
GRUS/9W	LTGLCG9WLED	9W	6
Decorative LED Bollard light with opal diffuser & aluminium reflector.			



Grus-m

LED BOLLARD: GRUS-M SERIES

PRODUCT CODE	ORDERING CODE	WATTAGE	STD. PKG. (NOS.)
GRUS-M/6W	LTGLCGM6WLED	6W	6
Decorative LED Bollard light with opal diffuser & aluminium reflector.			



Tarta



Tonda

STREET LIGHTS

CODE	LAMP TYPE	STD. PKG. (NOS.)
LTSS202/G66	1 X 70W HPSV-T/MH-T	1
IP66 Die-cast aluminium streetlight luminaire with toughened glass & pot optic reflector complete with all accessories.		
LTSS204/G66	1 X 150W HPSV/MH-T	1
LTSS206/G66	1 X 250W HPSV/MH-T	1
IP66 Die-cast aluminium streetlight luminaire with toughened glass & pot optic reflector complete with all accessories.		

HID STREET LIGHTS - DIE-CAST : TOP OPENING

CODE	LAMP TYPE	STD. PKG. (NOS.)
LTSS224/G	1 X 400W HPSV/MH-T	1
Die-cast aluminium top maintainable street light luminaire with toughened glass & POT optics reflector with IP66 lamp compartment, complete with all accessories.		

FLOOD LIGHTS

CODE	LAMP TYPE	STD. PKG. (NOS.)
LTFI001	1 X 70W MH-DE	1
LTFI002	1 X 150W MH-DE	1
LTFI003/N	1 X 250W HPSV-T/MH-T	1
LTFI004/N	1 X 400W HPSV-T/MH-T	1
Black powder coated integral, weather proof die-cast housing, heat resistant toughened clear glass cover with pre-anodised aluminium reflector, complete with all accessories.		
LTFNEL002	2 X 250W/400W HPSV-T/MH-T	1
Non integral, weather proof die-cast housing, heat resistant toughened clear glass cover with anodised aluminium reflector. Control gear box to be ordered separately		

CONTROL GEAR BOX

CODE	LAMP SUITABLE	STD. PKG. (NOS.)
LTGS021	2 X 250W HPSV/MH	1
LTGS022	2 X 400W HPSV/MH	1
Die-cast aluminium control gear box.		

JET PROOF LUMINAIRES

CODE	LAMP TYPE	STD. PKG. (NOS.)
*LTIC128	1 X 28W FTL -T5	10
*LTIC228	2 X 28W FTL -T5	10
Indoor industrial IP65 dustproof and corrosion resistant luminaire, housing made of engineering plastic, complete with all accessories		
*LTIC012HFB1	1 X 36W FTL -T8	4
*LTIC009HFB2	2 X 36W FTL -T8	4
Indoor industrial IP65 dustproof and corrosion resistant luminaire, housing made of engineering plastic, complete with all accessories		

BULK HEAD

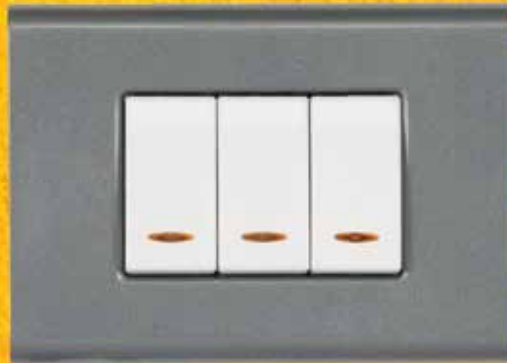
CODE	LAMP TYPE	STD. PKG. (NOS.)
CG80420	60/100W GLS/10-18W RETROFIT CFL	4
CG80421	1X9W CFL 2PIN	4
Bulkhead in engineering plastic housing, clear prismatic diffuser complete with all accessories.		

PORCH LIGHT

CODE	LAMP TYPE	STD. PKG. (NOS.)
CG80628	60/100W GLS/10-15 RETROFIT CFL	4
CG80629	2X60W GLS/10-15 RETROFIT CFL	4
Surface mounted Porch Light in engineering plastic housing with clear prismatic diffuser.		



**ITALIAN
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DIVINO
S W I T C H E S

Switches



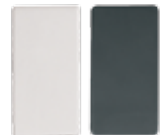
Code - White / Grey	Description	Type	No. of Modules	Std. Pkg. (Nos.)
One-Way Switches				
CG 20 113/CG 23 113	1P-6A	General	1	20
CG 20 114/CG 23 114	1P-6A	Luminous	1	
CG 20 573/CG 23 573	1P-16A	General	1	
CG 20 574/CG 23 574	1P-16A	Luminous	1	
CG 20 117/CG 23 117	1P-25A	General	1	
CG 20 118/CG 23 118	1P-25A	Luminous	1	



Two-Way Switches				
CG 20 123/CG 23 123	1P-6A	General	1	20
CG 20 578/CG 23 578	1P-16A	General	1	



Push Buttons				
CG 20 508 /CG 23 508	1P-6A	Luminous	1	20
CG 20 509 /CG 23 509	1P-6A	With Symbol	1	



Blanking Modules				
CG 20 056 /CG 23 056	1 Gang	-	1	40
CG 20 073 /CG 23 073	2 Gang	-	2	20



Neon Indicator				
CG 20 634 /CG 23 634	Neon Indicator Red		1	20

Fan Regulator / Dimmer



Code - White / Grey	Description	Control	No. of Modules	Std. Pkg. (Nos.)
Fan Regulator				
CG 20 826 /CG 23 826	Step Type	Rotary	2	10
CG 20 827 /CG 23 827	Step Type	Rotary	1	20



Dimmer				
CG 20 801 /CG 23 801	500W	Rotary	2	10
CG 20 804 /CG 23 804	300W	Rotary	1	20

Sockets



Code - White / Grey	Description	For Plug Pin	No. of Modules	Std. Pkg. (Nos.)
Sockets With Safety Shutters				
CG 20 353 /CG 23 353	6A-Multi Socket 5 Pin	Round	2	10
CG 20 354 /CG 23 354	6/16A Twin Socket 3 Pin (flushed)	Round	3	6
CG 20 352 /CG 23 352	6/16A Twin Socket 3 Pin (projected)	Round	2	10
CG 20 355 /CG 23 355	25A-Socket (Flushed)	Round	3	6
CG 20 356 /CG 23 356	25A-Socket (Projected)	Round	2	10
CG 20 358 /CG 23 358	13A-Socket	Universal	3	6
CG 20 359 /CG 23 359	6A- 2 Pin Socket	Round	1	20

Switches



Code - White / Grey	Description	Nos. Pairs	For Plug Pin	No. of Modules	Std. Pkg. (Nos.)
Telephone /Computer / TV Socket					
CG 20 251 /CG 23 251	RJ11	2	Twisted pair	1	20
CG 20 271 /CG 23 271	RJ45 CAT.5E	4	UTP	1	
CG 20 228 /CG 23 228	TV Socket	-	-	1	

Hospitality Range



Code - White / Grey	Description	No. of Modules	Std. Pkg. (Nos.)
Shaver Socket			
CG 20 842 /CG 23 842	230V-/110V-Shaver Socket	3	6



Energy Key Tag			
CG 20 815 /CG 23 815	1P-25A, 230V-Energy Key Switch With Tag	2	1
CG 20 434 /CG 23 433	Tag For Energy Key Tag	-	-

Application activation of functions service inside hotel rooms (e.g.m light, air-conditioner, minibar) when the room is occupied (with badge inserted)



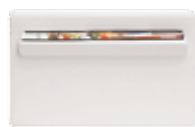
Code - White / Grey	Description	No. of Modules	Std. Pkg. (Nos.)
Do Not Disturb			
CG 20 609 /CG 23 609	Indicator	1	20
CG 20 124 /CG 23 124	6A-230V, IW, SP Luminous Switch	1	
CG 20 612 /CG 23 612	Unit (Indicator+Switch)	1+1	10



Room Occupied			
CG 20 610 /CG 23 610	Indicator	1	20
CG 20 125 /CG 23 125	6A-230V, IW, SP Luminous Switch	1	
CG 20 613 /CG 23 613	Unit (Indicator+Switch)	1+1	10



Make My Room			
CG 20 611 /CG 23 611	Indicator	1	20
CG 20 126 /CG 23 126	6A-230V, IW, SP Luminous Switch	1	
CG 20 614 /CG 23 614	Unit (Indicator+Switch)	1+1	10



Code - White / Grey	Description	No. of Modules	Std. Pkg. (Nos.)
Time Delay Electronic Switch (Card Operated)			
CG 20 825 /CG 23 825	25A	3	6



Foot Lamp			
CG 20 631	230V-LED Yellow Night Lamp	3	6
CG 20 632	230V-LED Blue Night Lamp	3	



Motor Starter

Code - White / Grey	Description	No. of Modules	Std. Pkg. (Nos.)
CG 20 362 /CG 23 362	Motor Starter 16A	2	1

Switches

Cover Plates with Support Plate



Code - Basic / Virna	Description	Std. Pkg. (Nos.)
White		
CG 25 701 WH/CG 25 801 WH	1 Module Plate	10
CG 25 702 WH/CG 25 802 WH	2 Module Plate	
CG 25 703 WH/CG 25 803 WH	3 Module Plate	
CG 25 704 WH/CG 25 804 WH	4 Module Plate	
CG 25 706 WH/CG 25 806 WH	6 Module Plate	5
CG 25 708 WH/CG 25 808 WH	8 Module Plate - Vertical	
CG 25 709 WH/CG 25 809 WH	8 Module Plate - Horizontal	
CG 25 712 WH/CG 25 812 WH	12 Module Plate	
CG 25 718 WH/CG 25 818 WH	18 Module Plate	
Grey / Red / Green / Yellow / Blue		
CG 25 701/CG 25 801	1 Module Plate	10
CG 25 702/CG 25 802	2 Module Plate	
CG 25 703/CG 25 803	3 Module Plate	
CG 25 704/CG 25 804	4 Module Plate	
CG 25 706/CG 25 806	6 Module Plate	5
CG 25 708/CG 25 808	8 Module Plate - Vertical	
CG 25 709/CG 25 809	8 Module Plate - Horizontal	
CG 25 712/CG 25 812	12 Module Top Plate	
CG 25 718/CG 25 818	18 Module Plate	

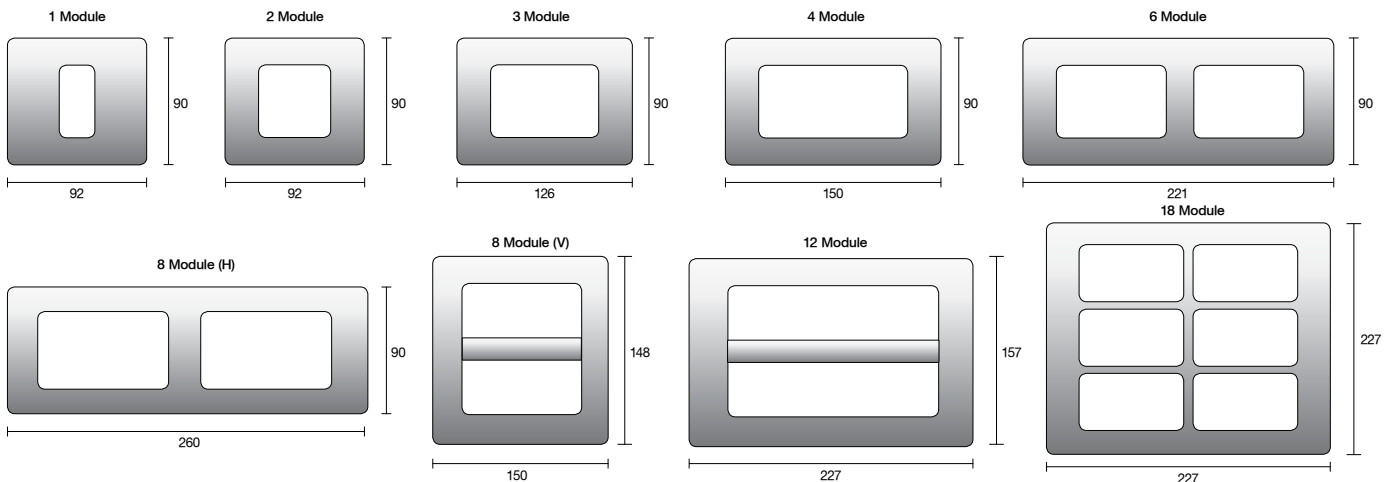
Please add following to codes for color selection
 GR for Grey / RD for RED / YL for Yellow / BL for Blue
 e.g. for ordering one module basic red plate code would be CG25701RD

Plates

Code - Basic / Virna	Description	Std. Pkg. (Nos.)
Metallic Slate / English Walnut / Metallic Titanium Plates		
CG 25 701/CG 25 801	1 Module Plate	10
CG 25 702/CG 25 802	2 Module Plate	
CG 25 703/CG 25 803	3 Module Plate	
CG 25 704/CG 25 804	4 Module Plate	
CG 25 706/CG 25 806	6 Module Plate	5
CG 25 708/CG 25 808	8 Module - Vertical	
CG 25 709/CG 25 809	8 Module - Horizontal	
CG 25 712/CG 25 812	12 Module Plate	
CG 25 718/CG 25 818	18 Module Plate	

Please add following to codes for color selection
 MS for Metallic Slate / WN for Wooden Walnut / MT for Metallic Titanium
 e.g. for ordering one module basic Metallic Slate plate code would be CG25701MS

Cover Plate Sizes (All dimensions in mm)



Switches

IP55 & IP40 Enclosures



Watertight And Dust Proof Enclosures (IP 55)-Surface Mounting			
Code	Description	Configuration	Std. Pkg. (Nos.)
CG 26 000 W	Bell Push	1 Module	1
CG 26 400 W	16A Switch, 6/16A Socket	3 Module	
CG 26 016 W	6A Switch	1 Module	
Watertight Plates For Flush Mounting Installations- IP55 (Compatible with 3M Concealed box)			
Code	Description		Std. Pkg. (Nos.)
CG 24 025 W	3 Gang		1



Watertight Enclosures For Fixed Or Movable Applications Colour White Ral 7035-IP55 - Standard Layout

Code	Description	Configuration	External Dim. LxHxD (mm)	Std. Pkg. (Nos.)
CG 26 010 W	1 Gang	Module 1	80x64x59	10
CG 26 011 W	2 Gang	Module 2	80x64x59	
CG 26 012 W	3 Gang	Module 3	80x96x59	
CG 26 013 W	4 Gang	Module 4x1	80x128x59	
CG 26 014 W	8 Gang	Module 4x2	160x128x59	5
CG 26 015 W	12 Gang	Module 4x3	240x128x59	3



Protected Enclosures For Fixed Or Movable Applications Colour White IP40-Vertical Layout

Code	Description	Configuration	External Dim. LxHxD (mm)	Std. Pkg. (Nos.)
CG 26 005 W	4 Gang	Module 2x2	80x128x50	10
CG 26 007 W	6 Gang	Module 2x3	80x192x50	4
CG 26 033 W	8 Gang	Module 2x4	80x256x50	6
CG 26 034 W	12 Gang	Module 4x3	128x192x50	2



Protected Enclosures For Fixed Or Movable Applications Colour White IP40-Horizontal Layout

Code	Description	Configuration	Std. Pkg. (Nos.)
CG 26 001 W	1 Gang	Module 1	10
CG 26 002 W	2 Gang	Module 2	
CG 26 003 W	3 Gang	Module 3	
CG 26 031 W	4 Gang	Module 4	
CG 26 004 W	4 Gang	Module 2x2	4
CG 26 006 W	6 Gang	Module 2x3	
CG 26 008 W	8 Gang	Module 2x4	2
CG 26 009 W	10 Gang	Module 2x5	
CG 26 032 W	12 Gang	Module 4x3	



Handy/Add-on Power Extension Box

Protected Extension Boxes (IP40) with 2.5 meter long wire.

Code	Description	Std. Pkg.(Nos.)
CG 25 001 W	2 nos. Luminous 6A Switch with 2 nos. 6A Multi Sockets	1
CG 25 002 W	2 nos. Luminous 6A Switch with 3 nos. 6A Multi Sockets	
CG 25 003 W	2 nos. Luminous 16A Switch with 1 no. 6A Multi Sockets & 2 nos. 6/16A Socket	
CG 25 004 W	2 nos. Luminous 16A Switch with 2 nos. 13A Universal Sockets in Square Box	
CG 25 007 W	2 nos. Luminous 6A Switch with 4 nos. 6A Multi Sockets	
CG 25 008 W	2 nos. Luminous 16A Switch with 4 nos. 6/16A Sockets	
CG 25 009 W	1 no. General 6A Switch & 1 no. Luminous 16A Switch with 3 nos. 6A Multi Socket and 1 no. 6/16A Socket	



Top Plug

Code	Description	Std. Pkg. (Nos.)
CG 28 014	6A Plug Top	10
CG 28 015	16A Plug Top	
CG 28 018	25A Plug Top	



Switches

One-Way Switches					
Code	Colour	Description	Type	No. Modules	Std. Pkg. (Nos.)
CS 20113	White	6A, 250V	General	1	20
CS 20114	White	6A, 250V	Luminous	1	20
CS 20115	White	6A, 250V	Luminous	2	10
CS 20573	White	16A, 250V	General	1	20
CS 20574	White	16A, 250V	Luminous	1	20
CS 20575	White	16A, 250V	Luminous	2	10
CS 20117	White	25A, 250V	General	1	20
CS 20118	White	25A, 250V	Luminous	1	20
CS 20119	White	25A, 250V	General	2	10
CS 20120	White	25A, 250V	Luminous	2	10



Two-Way Switches					
Code	Colour	Description	Type	No. Modules	Std. Pkg. (Nos.)
CS 20123	White	6A, 250V	General	1	20
CS 20124	White	6A, 250V	General	2	10
CS 20578	White	16A, 250V	General	1	20
CS 20579	White	16A, 250V	General	2	10



Bell Push					
Code	Colour	Description	Type	No. Modules	Std. Pkg. (Nos.)
CS 20509	White	6A, Bell Push	General	1	20
CS 20508	White	6A, Bell Push	Luminous	1	20
CS 20510	White	6A, Bell Push	General	2	10
CS 20511	White	6A, Bell Push	Luminous	2	10



Blanking Module					
Code	Colour	Description	Type	No. Modules	Std. Pkg. (Nos.)
CS 20056	White	1M Blank	General	1	50



Neon Indicator			
Code	Description	No. Modules	Std. Pkg. (Nos.)
CS 20631	Neon Indicator Red	1	20



Fan Regulator / Dimmer				
Code	Colour	Description	No. Modules	Std. Pkg. (Nos.)
CS 20826	White	Step type Fan Regulator 100W	2	10
CS 20827	White	Step type Fan Regulator 100W	1	20
CS 20801	White	Rotary Type Dimmer 500W	2	10
CS 20804	White	Rotary Type Dimmer 300W	1	20



Switches



Sockets with Safety Shutters				
Code	Colour	Description	No. Modules	Std. Pkg. (Nos.)
CS 20353	White	6A, 5 Pin	2	10
CS 20352	White	6/16A, 6 Pin	3	6
CS 20354	White	6/16A, Socket Projected	2	10
CS 20355	White	25/6A, 6 Pin	3	6
CS 20359	White	6A, 2 Pin Socket	1	20
CS 20362	White	16/6A, Combined Socket & Button	3	6
CS 20363	White	25/6A, Combined Socket & Button	3	6



TV Socket / Flex Outlet				
Code	Colour	Description	No. Modules	Std. Pkg. (Nos.)
CS 20228	White	TV Socket	1	20
CS 20237	White	Flex Outlet	1	20



Telephone / Computer Socket				
Code	Colour	Description	No. Modules	Std. Pkg. (Nos.)
CS 20251	White	RJ 11, Telephone Jack	1	20
CS 20271	White	RJ 45, Computer Jack	1	20



Energy Saving Switch				
Code	Colour	Description	No. Modules	Std. Pkg. (Nos.)
CS 20815	White	25A, Energy Saving Switch With Key Teg & Indicator	3	1

APPLICATION: activation of functions and service inside hotel rooms (e.g. light, air-conditioner, minibar) when the room is occupied (with badge inserted).

C



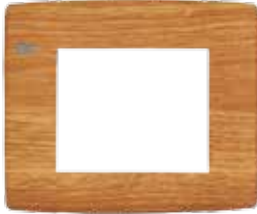
Top Plates with Support Plate		
Code	Description	Std. Pkg. (Nos.)
White		
CS 25701WH	1 Module Plate	10
CS 25702WH	2 Module Plate	
CS 25703WH	3 Module Plate	
CS 25704WH	4 Module Plate	
CS 25705WH	5 Module Plate (Compatible With 4M Metal Box)	
CS 25706WH	6 Module Plate	
CS 25707WH	8 Module - Horizontal	5
CS 25709WH	8 Module Plate (Compatible With 6M Metal Box)	
CS 25710WH	10 Module - Vertical (Compatible With 8M (4+4) Metal Box)	
CS 25712WH	12 Module Plate	
CS 25716WH	16 Module Plate (Compatible With 12M Metal Box)	
Red / Yellow/ Green/ Blue / Grey Plates		
CS 25701	1 Module Plate	10
CS 25702	2 Module Plate	
CS 25703	3 Module Plate	
CS 25704	4 Module Plate	
CS 25705	5 Module Plate (Compatible With 4M Metal Box)	
CS 25706	6 Module Plate	
CS 25707	8 Module Horizontal (Compatible With 6M Metal Box)	5
CS 25710	10 Module Vert.	
CS 25712	12 Module Plate	
CS 25716	16 Module Plate (Compatible With 12M Metal Box)	



Please add following to codes for color selection
 GR for Grey / RD for RED / YL for Yellow / BL for Blue/ GN for Green
 e.g. for ordering one module red plate code would be CS25701RD

Switches

Top Plates with support Plate



Code	Description	Std. Pkg. (Nos.)
Wooden		
CS 25701WN	1 Module Plate	10
CS 25702WN	2 Module Plate	
CS 25703WN	3 Module Plate	
CS 25704WN	4 Module Plate	
CS 25705WN	5 Module Plate	
CS 25706WN	6 Module Plate	
CS 25707WN	8 Module Horizontal	5
CS 25710WN	10 Module Vertical	
CS 25712WN	12 Module Plate	
CS 25716WN	16 Module Plate	

Metal Boxes- Fabricated



Code-Fabricated	Description	Fabricated Ext. Dim. LxHxD (mm)	Std. Pkg. (Nos.)
CG 24 271	1M Metal Box	75 X 75 X 50	10
CG 24 271	2M Metal Box	75 X 75 X 50	
CG 24 272	3M Metal Box	100 X 75 X 50	
CG 24 273	4M Metal Box	135 X 76 X 50	
CG 24 274	6M Metal Box	210 X 75 X 50	5
CG 24 275	8M (4 +4) Metal Box	134 X 140 X 52	
CG 24 276	8M (Horizontal) Metal Box	232 X 79 X 52	
CG 24 277	12M Metal Box	210 X 140 X 50	
CG 24 288	16M Metal Box	210 X 140 X 50	
CG 24 278	18M Metal Box	210 X 210 X 56	

- * 10M Top Plate shall be fitted in 8M (4+4) Vertical Metal Box (i.e. CG 24 275)
- * 5M Top Plate Shall be fitted in 4M Metal Box (i.e. CG 24 273)
- * Deep drawn metal box on POR (Price on request)

Cover Plate Sizes (All dimensions in mm)

