



Miniature Circuit Breaker

WiNtrip

Since
1966



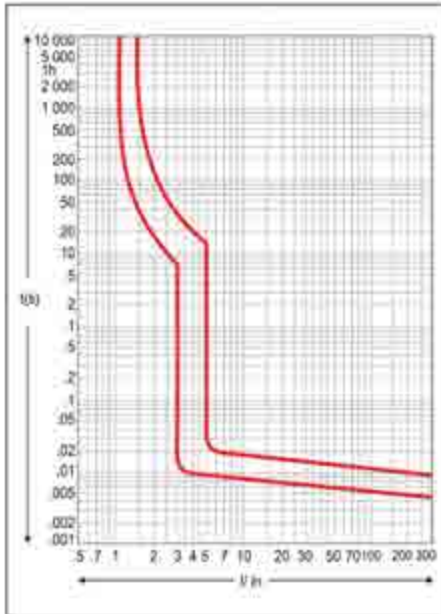
KEMA
KEUR



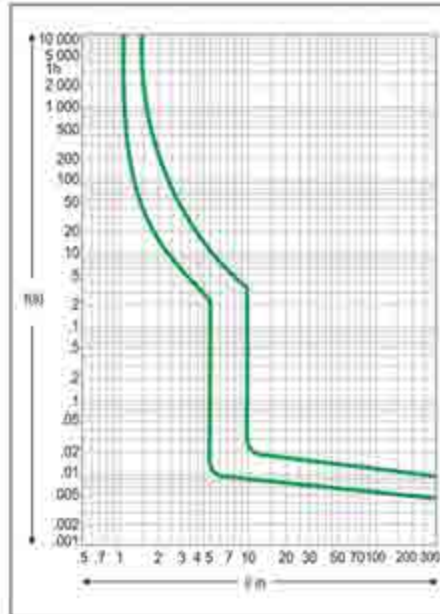
پویا افزار پیشرو

SMART SELECTION

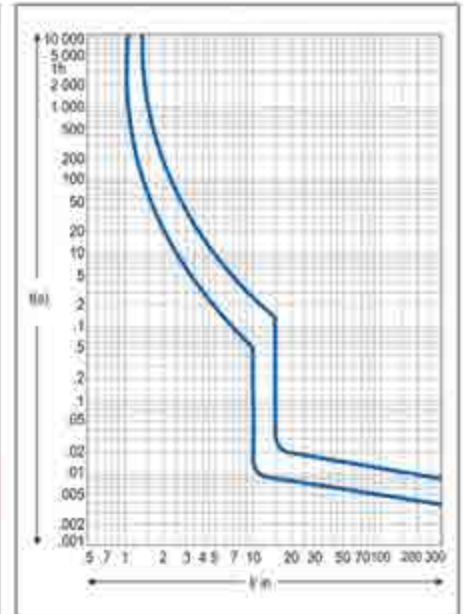
Type 'B'



Type 'C'



Type 'D'



MCB Selection based on Application - Tripping Characteristics

Type	Application	Thermal Test Current		Tripping Time $I_n > 63A$	Electro Magnetic Test Current		Tripping Time (t)
		Low	High				
'B'	Lighting & Distribution with no surge Current	1.13xI _n		>1hour	3xI _n		≥0.1s
			1.45xI _n	<1hour	5xI _n	<0.1s	
'C'	Inductive Load with surge Current	1.13xI _n		>1hour	5xI _n		≥0.1s
			1.45xI _n	<1hour	10xI _n	<0.1s	
'D'	High Inductive Load & High Inrush Current	1.13xI _n		>1hour	10xI _n		≥0.1s
			1.45xI _n	<1hour	20xI _n	<0.1s	

Temperature deration

MCBs are calibrated at an ambient temperature of 30°C. In an industrial environment where ambient temperature is higher than the regulatory reference temperature of 30°C, the circuit breakers may be subjected to untimely tripping (nuisance tripping). At a temperature above 30°C the thermal release trips faster, behaving like a relay with a lower nominal current. It is therefore imperative to take into account nominal current derating if the circuit breaker is installed at a higher ambient.

The table gives the max. operating current referring to the different temperatures.

Temperature

I _n (A)	25°C	30°C	35°C	40°C	45°C	50°C
2	2.04	2	1.96	1.9	1.86	1.82
6	6.24	6	5.82	5.52	5.28	4.98
10	10.40	10	9.7	9.2	8.8	8.3
16	16.5	16	15.5	15	14.4	14.1
20	20.6	20	19.4	18.8	18	17.6
25	25.8	25	24.3	23.5	22.5	22
32	33	32	31.04	30.1	28.8	28.2
40	41.2	40	38.8	37.6	36	35.2
63	64.89	63	61.79	60	58	56.07

Constructional

Housing

WiNtrip MCBs are made up of engineered thermo plastic for self lubrication and critical performance. The housing and other moulded components are fire retardant having high melting point, low water absorption and high dielectric strength therefore enabling it to withstand high temperature.

Operating Mechanism

WiNtrip Circuit Breakers are based on Thermal Magnetic technology. The protection is ensured by combining a temperature receptive mechanism (bimetal) and a current sensitive electro-magnetic device. The thermal operation provides protection from normal overload and the electro-magnetic device against large overloads and short circuits.

Superior Contact Mechanism

The mechanism comprises of fixed and moving contacts made up of silver graphite for surety, extended life span and anti-weld properties. These contacts have low contact resistance resulting in reduced voltage drop and low watt loss commensurating to energy savings.

High Tech Arc Blower

Protects from hazards of overloads and short-circuits. The arc under the influence of magnetic field is moved into the arc chute where it is quickly extinguished and quenched.

Maximum Backup Protection

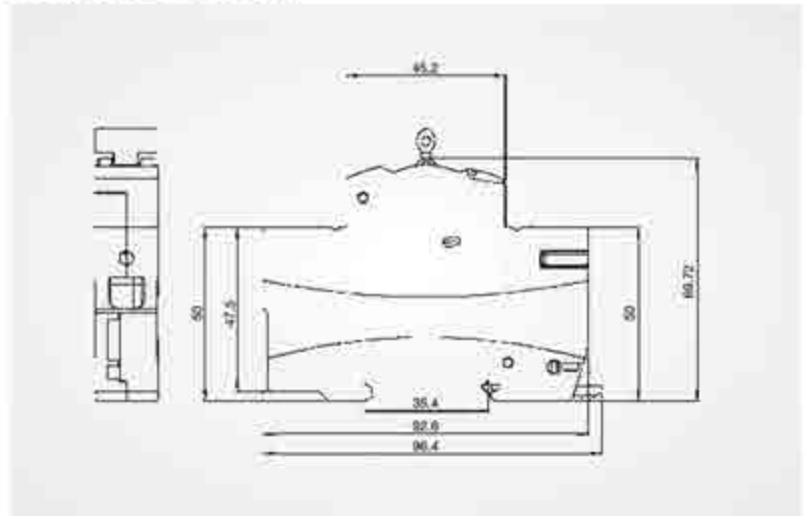
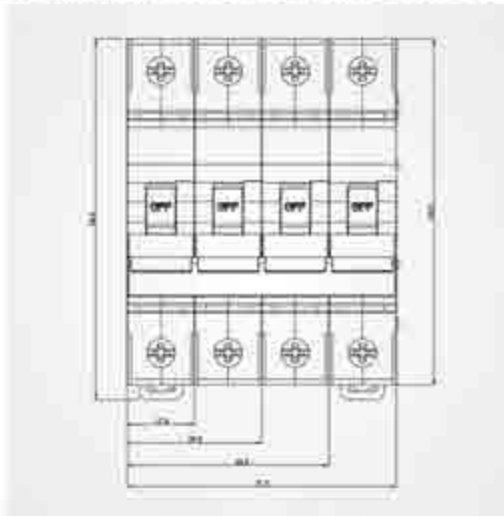
To protect the WiNtrip circuit breakers against higher short circuit current, fuses should be installed at the incoming side. The current rating of these fuse links should not be more than the values stated in the table.

MCB Rating	Back-up Fuse Rating
1A	25A
4A	50A
6A	80A
10A	100A
63A	100A

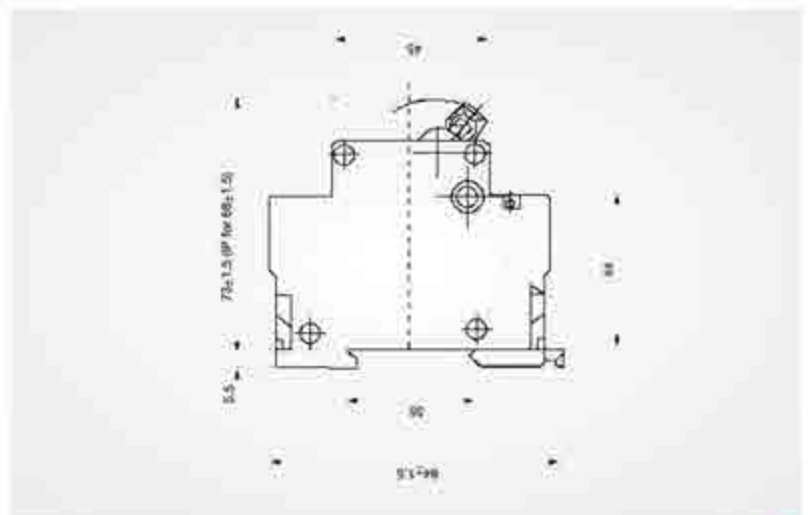
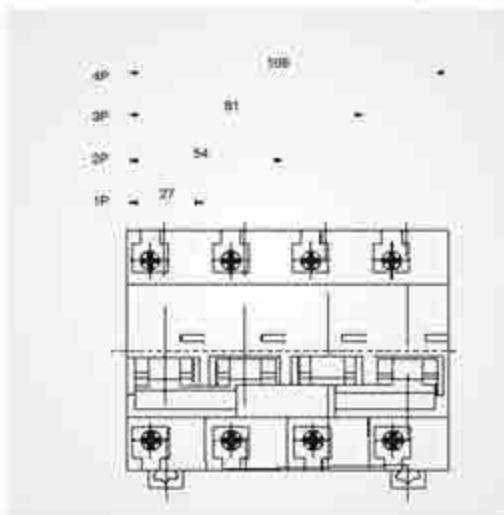
Integrated label channel holders

Easy identification of circuits irrespective of position on the Distribution Board. Enhanced safety during maintenance.

Installation Dimensions MCB (0.5 to 63A) / Isolator (25 to 125A)



Installation Dimensions MCB (80 to 125A)



Safe | Convenient | Energy Saving | Wide range

IP 20 Degree Protection	Terminals are finger touch proof. Prevents electrical shock by accidental touch.
Trip Free Mechanism	MCB trips even if held in ON position.
Padlocking Facility	Dolly can be padlocked in - OFF position for personal safety during maintenance - ON positing for extremely critical loads
Current Limiting Design - Class 3	Minimum let through energy under fault condition due to ultra fast contact separation and rapid quenching of the arc. This reduces stress on connected loads and cables.
High Terminal Capacity with Deep Serrations	Ensures proper termination and firm connection to accommodate 35 sq mm cable.
Bi-connect Termination Possible	Choice to use Busbar and/or cable in the same terminal, provides reliable termination
Din Rail Mounting	Two stage snapping device for simple effortless and firm seating on 35 mm Din Rail, easy & efficient mounting.
Combination Head Captive Screws	Safe and provides the flexibility of both +/- Head screw driver.
Low Power Consumption	Cost effective and energy saving. The Watt loss of WiNtrip MCBs is extremely low providing valuable energy savings over its entire life cycle.
Wide range	0.5 to 125A 1P, 1P+N, 2P, 3P, 3P+N & 4P configurations B, C & D Tripping Characteristic
Legend Plate	Ensures circuit identification and enhanced safety
Air circulation	When two poles are placed adjacent to each other, these channels form a tunnel resulting in effective air circulation around individual poles.
2 Position dolly	Clear indication of the operational status of device.

MCB-AC

Specifications	WiNtrip MCB			WiNtrip Isolator
	'B'	'C'	'D'	
Type				
Standard Conformity	IS/IEC60898-1-2002 CM/L-8885716			IS/IEC60947-3
Rated Current (In)	6-63A	0.5-125A	0.5-63A	25-125A
Rated Voltage AC (Ue)	240/415V			240/415V
Utilization Category				AC22A
Rated Frequency Hz	50Hz			50Hz
No. of Poles (Execution)	1P, 1P+N, 2P, 3P, 3P+N & 4P			1P, 2P, 3P & 4P
Rated Short Circuit Breaking Capacity	10kA	10kA	10kA	
Rated Insulation Voltage (Ui)	660V			660V
Magnetic Release Setting	(3-5)In	(5-10)In	(10-20)In	
Rated impulse Voltage (Uimp)	6kV			6kV
Electrical/Mechanical Life <32A	30,000			30,000
>32A	10,000			10,000
Ambient Temperature	-5°C to +55°C			-5°C to +55°C
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
Degree of Protection	IP 20			IP 20
Resistance to Shock	40mm free fall			40mm free fall

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.

Standard Conformity	IS/IEC60898-2-2002
Current Rating	0.5-63A
No. of Poles	1P & 2P
Voltage Rating	220V (max.)
Short Circuit Breaking Capacity	4kA



MCB

Description	Type 'B'	Type 'C'	Type 'D'
Single Pole	6/10/16/20/25/32/40/63	0.5/1/2/3/4/5 6/10/16/20/25/32/40/63 80/100/125	0.5/1/2/3/4/5 6/10/16/20/25/32/40/63
Single Pole+Neutral	6/10/16/20/25/32/40/63	0.5/1/2/3/4/5 6/10/16/20/25/32/40/63	0.5/1/2/3/4/5 6/10/16/20/25/32/40/63
Double Pole	6/10/16/20/25/32/40/63	0.5/1/2/3/4/5 6/10/16/20/25/32/40/63 80/100/125	0.5/1/2/3/4/5 6/10/16/20/25/32/40/63
Three Pole Three Pole+Neutral	6/10/16/20/25/32/40/63	0.5/1/2/3/4/5 6/10/16/20/25/32/40/63 80/100/125	0.5/1/2/3/4/5 6/10/16/20/25/32/40/63
Four Pole	6/10/16/20/25/32/40/63	0.5/1/2/3/4/5 6/10/16/20/25/32/40/63 80/100/125	0.5/1/2/3/4/5 6/10/16/20/25/32/40/63

Accessories

Auxiliary Contact: Attachment fitted with MCB (left side) used for interlocking, signaling and indication. The auxiliary switch is switched on or off along with the MCB through internal linkage.

Specifications

Standard Conformity	IS 13947-5
Current Rating	6A
Voltage Rating	240V AC
Contact Configuration	1NO + 1NC
Protection	IP 20
Electrical Endurance (nos)	10000
Fitment	Factory Fitted

Shunt Trip: Controls the remote tripping of the MCB to which it is attached (Right Side).

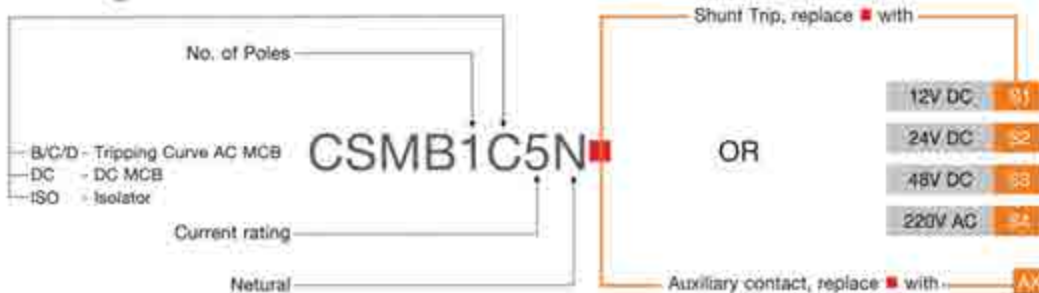
Specifications

Standard Conformity	IS/IEC60947-2
Rated Voltage AC	220V
DC	12V, 24V, 48V
Operating Voltage	70-110% of Rated Voltage
Protection	IP 20
Electrical Endurance (nos)	10000

Isolator

Description	Reference
Single Pole	25/40/63
Double, Three & Four Pole	25/40/63/80/100/125

Ordering Cat No.





پویا افزار پیشرو

SMART SELECTION

www.pooyapishro.com

شرکت پویا افزار پیشرو در راستای برنامه ها و سیاست گذاری مدیران ارشد خود به منظور تامین بهترین تجهیزات ممکن از بهترین کمپانی های مطرح دنیا برای استفاده در صنایع گوناگون کشور، با وجود کلیه تحریم های بین المللی، توانسته است با کسب نمایندگی رسمی از کمپانی های مطرح جهانی و با تکیه بر تجربه ۲۰ ساله مدیران و تخصص و خلاقیت کارکنان متعهد و متخصص خود، نسبت به اجرای پروژه های گوناگون در کشور پردازد. همچنین با ارائه مشاوره های سازنده و راهکارهای جامع به عنوان بازوی توانای مشتریان در کنار آنها بوده تا مفاهیم مشتری مداری و مسئولیت های اجتماعی در کنار توسعه پایدار و حفظ ارزش های والای انسانی و پیروی از اخلاق حرفه ای در سایه فرهنگ همکاری سازنده و خلاق را نهادینه سازد.

گواهی نامه ایخذ نمایندگی رسمی از کمپانی C&S electric جهت تامین کلیه تجهیزات ساخت این کمپانی.

We transfer your electricity

Date: 01.09.2015

TO WHOM IT MAY CONCERN

We, C&S Electric Ltd., company duly organized and existing under the laws of its company law Board of India vide CN no. U71900DL3971PL0003672, having corporate 232, Daria Industrial Estate, Ph-III, New Delhi - 110 020, India.

Hereby certify that:

PAPCO, (POOYA AFZAR PISHRO CO.) a company duly organized and existing under the Islamic Republic of Iran, with its head office at No.20, 8th St, Qasem Maghkan Pars Tehran 2256853424, Iran, registered with the Commercial Register of Iran under 33 represented by Mr. Houshang Djamali the CEO.

is an **Exclusive Authorized Partner**, within the Territory of Islamic Republic of Iran, promotion and sales of the C&S Low Voltage Control & Switchgear items which are contactors + accessories, capacitor duty contactors, MCB's + RCBE.

PAPCO performs its business in its own name and for its own account, its responsibilities pertaining to its business and acting will regard to as an independent, and in particular it shall obtain and comply with all administrative and its requirements.

For C&S Electric Ltd

 Houshang Djamali
 JWP - and Business Division



C&S Electric Limited

Registered Office: 232, Daria Industrial Estate, Phase - III, New Delhi - 110 020, India. Tel: +91 11 2648 2000-01
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 CIN NO: U71900DL3971PL0003672

IEC **TECEE** **CB TEST CERTIFICATE** Ref. Certificate No. N.26016

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME


Issued by:	DEKRA Certification B.V.		
Product:	Circuit-breakers for overcurrent protection for household and similar installations		
Applicant:	C&S Electric Ltd	REGO OFFICE: 322, Daria Industrial Estate, Phase - III, New Delhi - 110020	India
Manufacturer:	C&S Electric Ltd	Plot No 18, Sector 8C III, Sidpur Ranipur Handwar, Uttarakhand - 249403	India
Factory:	C&S Electric Ltd	Plot No 18, Sector 8C III, Sidpur Ranipur Handwar, Uttarakhand - 249403	India
Rating and principal representations:	Ue: 240 / 415 Vac (1P), 240 Vac (1P+N), 415 Vac (2P, 3P, 3P+N, 4P) N pole is not protected 0.5, 1, 2, 3, 4, 5 A for C, D-type 6, 10, 16, 20, 25, 32, 40, 50, 63 A for B, C, D-type Icn: 10 000 A, Ics: 7 500 A, safety distance "s" = 100 mm		
Trade mark (if any):	C&S Writing		
Type of Manufacturer's Testing Laboratories used:	YM1		
Model/Type reference:	CSMB		
Additional information:	Energy limiting class 3 according EN 60898-1:2003 for B and C type with in s 40 A		
Sample of product tested to be in conformity with IEC:	60898-1ted.1.2an1am2		
Test Report Ref. no.:	2150038 50, 2150038 51		

This CB Test Certificate is issued by the National Certification Body:

DEKRA Certification B.V.
 Utrechtseweg 310
 P.O. Box 5185
 6802 ED Arnhem
 The Netherlands

Signed by: H.L. Schoorleek

Date of issue: 2015-05-26



گواهی نامه ایخذ نمایندگی رسمی از کمپانی C&S electric جهت تامین کلیه تجهیزات ساخت این کمپانی.

Rev. 09.15



نماینده رسمی محصولات C&S electric در ایران



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