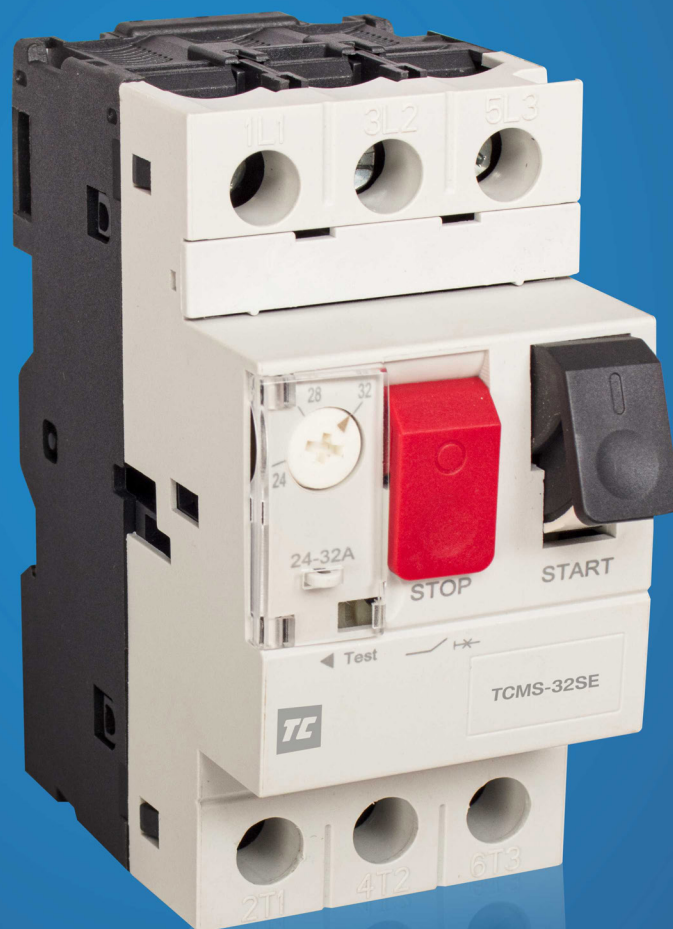
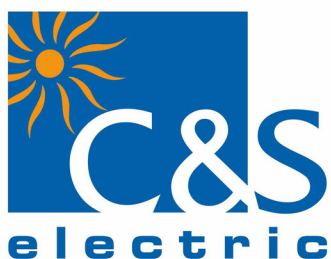


We touch your electricity everyday!

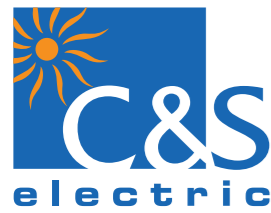
exceed



CE RoHS
Compliant



Motor Protection
Circuit Breaker



C&S Electric Ltd. is a leading manufacturer of electrical and electronic equipment in India. It is one of India's largest exporters of industrial switchgear & power busbar products. C&S Electric products are used in applications ranging from power generation, transmission and distribution, protection and final consumption.

C&S Electric has the following product verticals:

- LV Switchgear
- LV Switchboards
- LV & MV Busducts
- LV Bustrunking
- Protection and Measurement Devices

MARKET LEADER

C&S is one of the leading supplier in the LV Switchgear business segment and a market leader in the busbar business with more than 50% share in Indian market.

11 MANUFACTURING PLANTS

C&S Electric have 11 state-of-the-art manufacturing facilities in Noida, Haridwar & Guwahati, which are equipped with latest tools and systems to ensure highest level of quality and services.

600+ STOCKISTS

A dedicated network of channel partners, ensuring access to the farthest corners of India, with an obsession for customer services. In addition C&S products are available in 8000+ retail counters nationally.

EXPORTS TO OVER 85 COUNTRIES

C&S exports the entire range of products across all 7 continents, thus reaffirming its position as one of India's largest exporters of industrial electrical products.

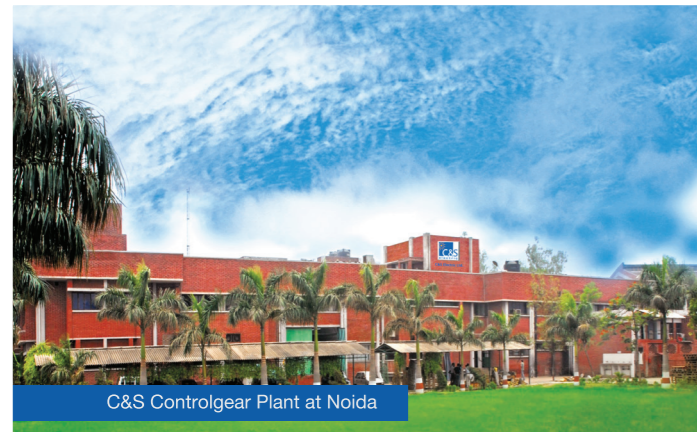
5000+ WORKFORCE

5000+ Workforce including over 371 engineers, dedicated sales team of 424 people & millions of satisfied customers.

R&D

4 Govt. approved labs/centres, over 20,000 sqft. space dedicated to R&D, 70 R&D engineers, state of the art testing & design facilities ... & most of the all a passion for innovation & excellence.

MANUFACTURING FACILITIES



C&S Controlgear Plant at Noida



C&S Switchgear Plant at Noida



World-Class Manufacturing Plants at SIDCUL, Haridwar

Quality Assurance

The image displays three certification documents. On the left is a BSCIC Certificate for Environmental Management System (ISO 14001) issued to C&S Electric Limited. In the center is a DNV Management System Certificate for ISO 9001:2015, also issued to C&S Electric Limited. On the right is a BSCIC Certificate for Occupational Health & Safety Management System (ISO 45001:2018) issued to C&S Electric Limited. The certificates include details such as the scope of certification, the issuing body's name and address, and the validity dates.



14001:2015



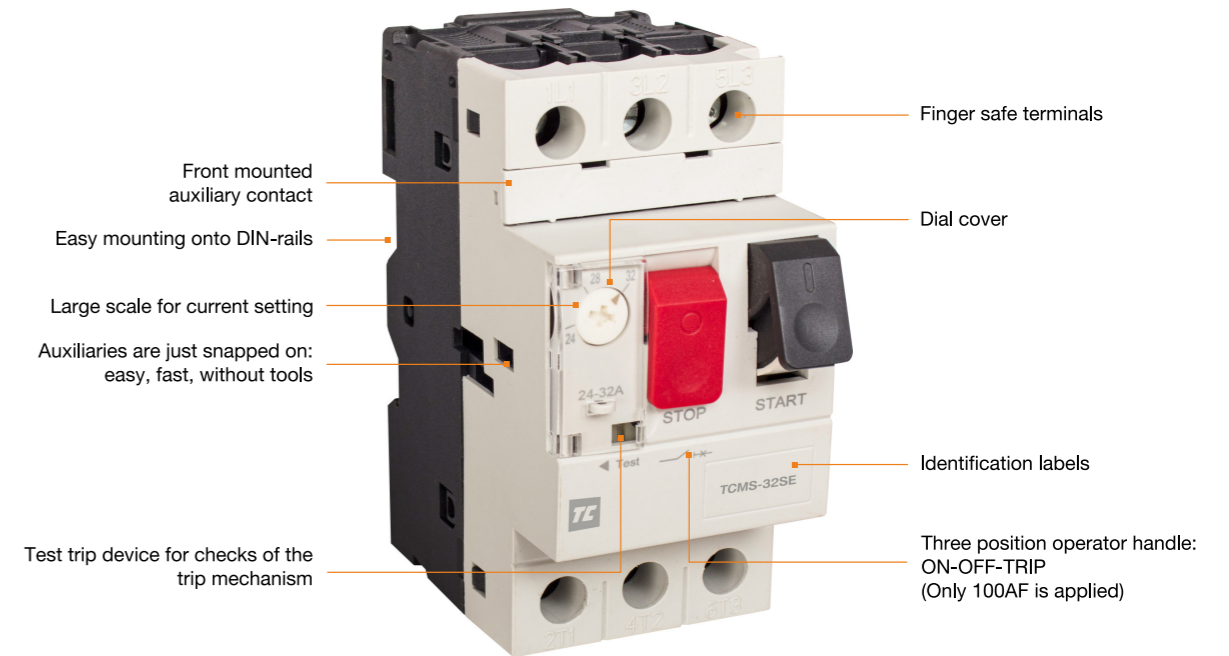
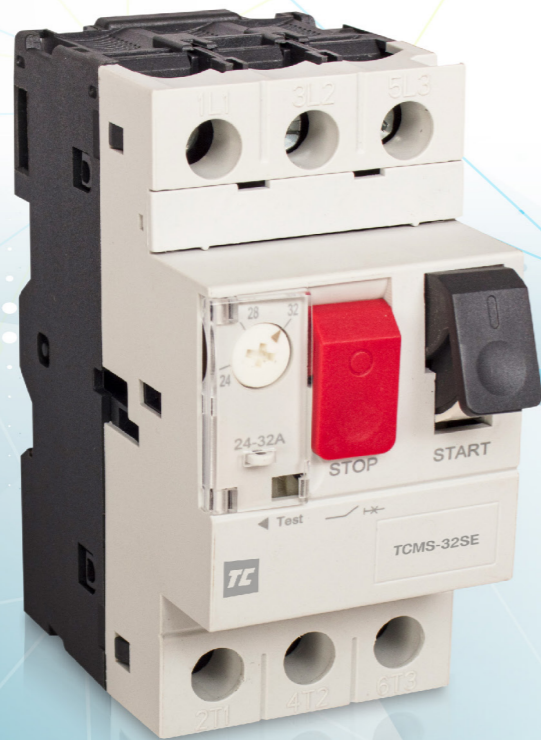
9001:2015



45001:2018

Features & Benefits

- Conforms to IEC 60947-2
- Range: 0.1A-32A, 3 Pole
- Breaking capacity: 30kA to 100kA Max.
- Protection against overload & short circuit
- Phase failure protection
- Isolation
- Current limiting short circuit protection
- Adjustable Thermal release
- Class 10 trip protection
- Trip Test
- Rated insulation Voltage 690 V
- Icu / Ics at 415V
- Wide range of External Accessories
- Finger safe terminals
- 35 Din rail mounting
- Ambient temperature compensation



TCMSE Series Motor Starter

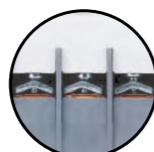
Toggle Switch Control

Standard rated power of three-phase motor 50/60Hz, category AC-3				Thermal tripping Setting range	Magnetic tripping Current	With enclosure Ithe current	Reference	Weight
230V	400V	415V	440V					
kW	kW	kW	kW	A	A	A		kg.
--	--	--	--	0.1-0.16	1.5	0.16	TCMS-32SE-0.16	0.26
--	--	--	--	0.16-0.25	2.4	0.25	TCMS-32SE-0.25	0.26
--	--	--	--	0.25-0.40	5	0.4	TCMS-32SE-0.4	0.26
--	--	--	--	0.40-0.63	8	0.63	TCMS-32SE-0.63	0.26
--	--	--	0.37	0.63-1	13	1	TCMS-32SE-1	0.26
--	0.37	--	0.55	1-1.6	22.5	1.6	TCMS-32SE-1.6	0.26
0.37	0.75	0.75	1.1	1.6-2.5	33.5	2.5	TCMS-32SE-2.5	0.26
0.75	1.5	1.5	1.5	2.5-4	51	4	TCMS-32SE-4	0.26
1.1	2.2	2.2	3	4-6.3	78	6.3	TCMS-32SE-6.3	0.26
2.2	4	4	4	6-10	138	9	TCMS-32SE-10	0.26
3	5.5	5.5	7.5	9-14	170	13	TCMS-32SE-14	0.26
4	7.5	9	9	13-18	223	17	TCMS-32SE-18	0.26
5.5	11	11	11	17-23	327	21	TCMS-32SE-23	0.26
5.5	11	11	11	20-25	327	23	TCMS-32SE-25	0.26
7.5	15	15	15	24-32	416	24	TCMS-32SE-32	0.26

Locking

Dial Cover

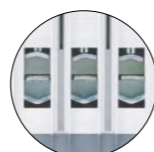
Terminals



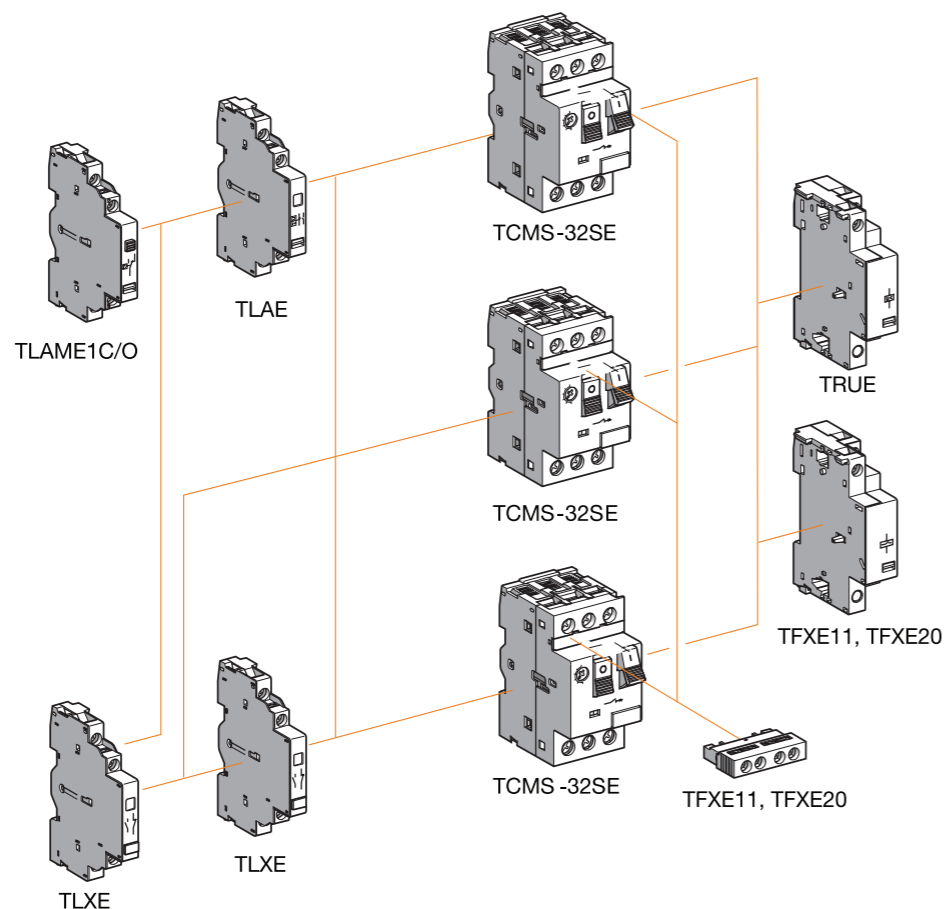
Screw



Lug



Lug



TCMSE Additional Contact Block

Type	Installation	Contact Type	Reference	Weight (Kg.)
Instantaneous auxiliary contact	Front (1 pcs for each circuit breaker)	N/O+N/C	TFXE11	0.020
		N/O+N/O	TFXE20	0.020
	Side (2 pcs at most for left of circuit breaker)	N/O+N/C	TLXE11	0.050
		N/O+N/O	TLXE20	0.050

TCMSE-32S Additional contact block

Type	Installation	Contact Type	Reference	Weight
Fault Signal Contact	Side (1pcs for left of circuit breaker)	Fault N/O	TLAE11	0.055
Short Circuit Signal Contact	Side (1pcs for left of circuit breaker)	C/O	TLAME11	0.045

TCMSE-32S Electrical Tripping

Type	Installation	Voltage	Reference	Weight
Under Voltage release	Side (1pcs for right of circuit breaker)	110-127V 50Hz	TRUE110-127V 50HZ	0.105
		220-240V 50Hz	TRUE220-240V 50HZ	0.105
		380-415V 50Hz	TRUE380-415V 50HZ	0.105
Shunt tripping	Side (1pcs for right of circuit breaker)	110-127V 50Hz	TRSE110-127V 50HZ	0.105
		220-240V 50Hz	TRSE220-240V 50HZ	0.105
		380-415V 50Hz	TRSE380-415V 50HZ	0.105

TCMSE Series Motor Starter

Technical Parameters & Breaking Capacity Selection

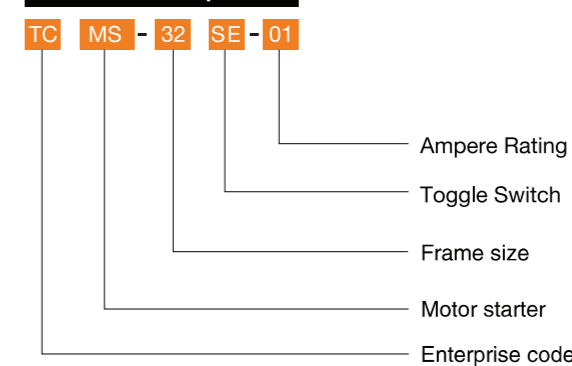
Type of MPCB		TCMS-32SE											
		1-6	7	8	10	14	16	20	21	22	32		
Rated current		A	0.1-1.6	2.5	4	6.3	10	14	18	23	25	32	
Short-circuit Breaking capacity IEC60927-2	230/240V	Icu	KA	100	100	100	100	100	100	100	50	50	50
		Ics	(%Icu)	100	100	100	100	100	100	100	100	100	100
	400/415V	Icu	KA	100	100	100	100	100	15	15	15	15	10
		Ics	(%Icu)	100	100	100	100	100	50	50	40	40	50
	500V	Icu	KA	100	100	100	50	10	6	6	4	4	4
		Ics	(%Icu)	100	100	100	100	100	75	75	75	75	75
	690V	Icu	KA	100	3	3	3	3	3	3	3	3	3
		Ics	(%Icu)	100	75	75	75	75	75	75	75	75	75

TCMSE-32S AC Motor starter

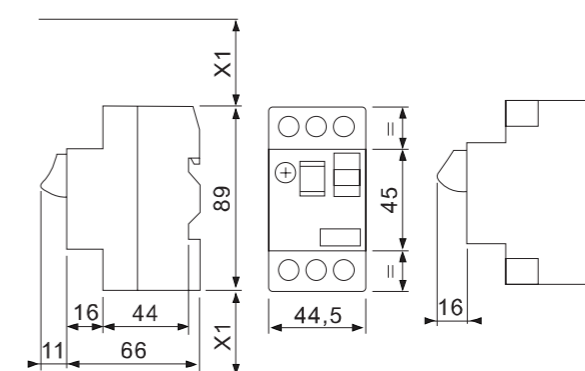
Type of starter		TCMS-32SE													
		1	2	3	4	5	6	7	8	10	14	16	20	21	22
Rated Value (A)		0.1-1.6	0.25	0.4	0.63	1	1.6	2.5	4	6.3	10	14	18	23	25
Heat protection stress wire protection at short-circuit condition (PVC insulated copper conductor) Min. protective cable dimension at 40 °C and max Ics	1 mm ²	-	-	-	-	-	-	-	-	≤=10kA	≤=6kA	(1)	(1)	(1)	(1)
	1.5 mm ²	-	-	-	-	-	-	-	-	≤=20kA	≤=10kA	-	-	-	-
	2.5..6 mm ²	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Ordering Information

Model Description



Dimensional Details



All Dimensions are in mm

Marketing offices spread all over India

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