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Main

Range	TeSys
Product name	TeSys F
Product or Component Type	Magnetic latching contactor
Device short name	CR1F
Device Application	Control
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-4 AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	1000 V AC 25...200 Hz
[Ie] rated operational current	630 A 104 °F (40 °C)) <= 440 V AC AC-3 1000 A 104 °F (40 °C)) <= 440 V AC AC-1 560 A 104 °F (40 °C)) <= 440 V AC AC-4
Motor power kW	335 kW 400 V AC 50/60 Hz AC-4)
Control circuit type	AC 50...400 Hz DC standard
[Uc] control circuit voltage	110 V AC 50...400 Hz 110 V DC
Irms rated making capacity	6740 A
Rated breaking capacity	6300 A 220...440 V 5400 A 500 V 3200 A 1000 V 4600 A 660/690 V
[Icw] rated short-time withstand current	5.05 KA 104 °F (40 °C) - 1 s 5.05 KA 104 °F (40 °C) - 5 s 5.05 KA 104 °F (40 °C) - 10 s 4400 A 104 °F (40 °C) - 30 s 3400 A 104 °F (40 °C) - 1 min 2200 A 104 °F (40 °C) - 3 min 1600 A 104 °F (40 °C) - 10 min
Associated fuse rating	630 A aM <= 440 V 1000 A BS88 <= 440 V 1000 A gG <= 440 V
Average impedance	0.12 mOhm - lth 1000 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60158-1 1000 V IEC 60947-4 1000 V BS 775 1500 V VDE 0110 group C
Power dissipation per pole	48 W AC-3 120 W AC-1
Standards	EN/IEC 60947-1 EN/IEC 60947-4-1 JIS C8201-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product Certifications	CB Scheme UL CSA EAC CE UKCA
Connections - terminals	Bars 2 60 x 5 mm Power circuit bolted connection
Tightening torque	513.34 lbf.in (58 N.m)
Operating time	40...80 ms latching 50...100 ms unlatching

Mechanical durability	1 Mcycles
Maximum operating rate	120 cyc/h 104 °F (40 °C)

Complementary

Control circuit voltage limits	Latching 0.85...1.1 Uc Unlatching 0.85...1.1 Uc
Average consumption	11 VA AC 50...400 Hz unlatching 2300 VA AC 50...400 Hz latching 11 VA DC unlatching 2300 VA DC latching

Environment

Protective treatment	TC
Ambient Air Temperature for Operation	5...158 °F (-15...70 °C)
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Operating altitude	9842.52 ft (3000 m) without derating
Height	11.97 in (304 mm)
Width	12.17 in (309 mm)
Depth	10.04 in (255 mm)
Net Weight	41.01 lb(US) (18.6 kg)

Ordering and shipping details

Category	22331-CTR,F-LINE,DC,OPEN,NONREV
Discount Schedule	I12
GTIN	3389110548853
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.83 in (27.5 cm)
Package 1 Width	13.39 in (34.0 cm)
Package 1 Length	13.78 in (35.0 cm)
Package 1 Weight	36.09 lb(US) (16.37 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
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