



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-1 AC-4
Poles description	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	1000 V AC 25...200 Hz
[Ie] rated operational current	185 A (at <40 °C) at ≤ 440 V AC AC-3 275 A (at <40 °C) at ≤ 440 V AC AC-1 170 A (at <40 °C) at ≤ 440 V AC AC-4
Motor power kW	100 kW at 1000 V AC 50/60 Hz 110 kW at 690 V AC 50/60 Hz 110 kW at 500...660 V AC 50/60 Hz 100 kW at 440 V AC 50/60 Hz 100 kW at 415 V AC 50/60 Hz 90 kW at 380...400 V AC 50/60 Hz 55 kW at 220...230 V AC 50/60 Hz
Motor power HP (UL / CSA)	150 hp at 575...600 V AC 50/60 Hz for 3 phases motors 125 hp at 460...480 V AC 50/60 Hz for 3 phases motors 60 hp at 220...240 V AC 50/60 Hz for 3 phases motors 50 hp at 200...208 V AC 50/60 Hz for 3 phases motors
[Uc] control circuit voltage	48 V DC low consumption
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	275 A (at 40 °C)
Irms rated making capacity	2100 A
Rated breaking capacity	1800 A at 220...440 V 1600 A at 500 V 600 A at 1000 V 1200 A at 660/690 V

[I _{cw}] rated short-time withstand current	1500 A 40 °C - 1 s 1500 A 40 °C - 5 s 1500 A 40 °C - 10 s 920 A 40 °C - 30 s 740 A 40 °C - 1 min 500 A 40 °C - 3 min 400 A 40 °C - 10 min
Associated fuse rating	200 A aM at ≤ 440 V 315 A BS88 at ≤ 440 V 315 A gG at ≤ 440 V
Average impedance	0.36 mOhm - I _{th} 275 A 50 Hz
[U _i] rated insulation voltage	1000 V conforming to IEC 60158-1 1000 V conforming to IEC 60947-4 1000 V conforming to BS 775 1500 V conforming to VDE 0110 group C
Power dissipation per pole	12 W AC-3 26 W AC-1
Connections - terminals	Bars 2 cable(s) - busbar cross section: 25 x 3 mm Lugs-ring terminals 1 cable(s) 150 mm ² Connector 1 cable(s) 150 mm ²
Tightening torque	18 N.m
Operating time	35...40 ms latching 50...100 ms unlatching
Mechanical durability	1 Mcycles
Maximum operating rate	120 cyc/h 40 °C

Complementary

Control circuit voltage limits	Latching: 0.85...1.1 U _c Unlatching: 0.85...1.1 U _c
Average consumption	500 W DC latching 20 W DC unlatching

Environment

Protective treatment	TH
Ambient air temperature for operation	-15...70 °C
Ambient air temperature for storage	-60...80 °C
Operating altitude	3000 m without
Height	174 mm
Width	208.5 mm
Depth	181 mm
Product weight	5.4 kg

Offer Sustainability

REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your 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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