



Commercial status

End of Commercialisation :

⚠ End of Commercialisation

Main

Range	TeSys
Product name	TeSys F
Product or component type	Magnetic latching contactor
Device short name	CR1F
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-4 AC-3
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	1000 V AC 25...200 Hz
[Ie] rated operational current	400 A (at <40 °C) at <= 440 V AC AC-3 500 A (at <40 °C) at <= 440 V AC AC-1 370 A (at <40 °C) at <= 440 V AC AC-4
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	415 V AC 50/60 Hz
Irms rated making capacity	4500 A
Rated breaking capacity	4000 A at 220...440 V 3500 A at 500 V 1200 A at 1000 V 3000 A at 660/690 V
[Icw] rated short-time withstand current	3600 A 40 °C - 1 s 3600 A 40 °C - 5 s 3600 A 40 °C - 10 s 2400 A 40 °C - 30 s 1700 A 40 °C - 1 min 1200 A 40 °C - 3 min 1000 A 40 °C - 10 min
Associated fuse rating	400 A aM at <= 440 V 500 A BS88 at <= 440 V 500 A gG at <= 440 V
Average impedance	0.28 MOhm - Ith 500 A 50 Hz
[Ui] 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	45 W AC-3 70 W AC-1
Connections - terminals	Lugs-ring terminals 2 cable(s) 150 mm ² Bars 2 cable(s) - busbar cross section: 30 x 5 mm
Tightening torque	35 N.M

Operating time	40...75 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 Uc Unlatching: 0.85...1.1 Uc
Average coil consumption	1450 VA AC 50/60 Hz latching 12 VA AC 50/60 Hz unlatching

Environment

Protective treatment	TC
Ambient air temperature for operation	-15...70 °C
Ambient air temperature for storage	-60...80 °C
Operating altitude	3000 m without
Height	206 Mm
Width	213 Mm
Depth	219 Mm
Net weight	9.1 Kg

Contractual warranty

Warranty	18 months
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Product Life Status :	End of commercialisation
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