

Product datasheet

Specifications



TeSys F magnetic latching contactor - 3P(3 NO) - 630 A - 110 V AC/DC coil

CR1F630F7

! Discontinued on: 5 Apr 2023

! Discontinued

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 (at <40 °C) at <= 440 V AC AC-3 1000 A (at <40 °C) at <= 440 V AC AC-1 560 A (at <40 °C) at <= 440 V AC AC-4
Motor power kW	335 kW at 400 V AC 50/60 Hz (AC-4)
Control circuit type	AC at 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 at 220...440 V 5400 A at 500 V 3200 A at 1000 V 4600 A at 660/690 V
[Icw] rated short-time withstand current	5.05 kA 40 °C - 1 s 5.05 kA 40 °C - 5 s 5.05 kA 40 °C - 10 s 4400 A 40 °C - 30 s 3400 A 40 °C - 1 min 2200 A 40 °C - 3 min 1600 A 40 °C - 10 min
Associated fuse rating	630 A aM at <= 440 V 1000 A BS88 at <= 440 V 1000 A gG at <= 440 V
Average impedance	0.12 mOhm - Ith 1000 A 50 Hz

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[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	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 cable(s) - busbar cross section: 60 x 5 mm Power circuit: bolted connection
Tightening torque	58 N.m
Operating time	40...80 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 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	-15...70 °C
ambient air temperature for storage	-60...80 °C
Operating altitude	3000 m without derating
Height	304 mm
Width	309 mm
Depth	255 mm
net weight	18.6 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	27.5 cm
Package 1 Width	34.0 cm
Package 1 Length	35.0 cm
Package 1 Weight	16.37 kg

Contractual warranty

Warranty	18 months
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Sustainability



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

 Mercury Free

 RoHS Exemption Information [Yes](#)

Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information