



Product data sheet

Characteristics

CR1F6304M7

TeSys F magnetic latching contactor - 4P(4
NO) - 630 A - 220...230 V AC/DC coil





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	4P
Power pole contact composition	4 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
Control circuit type	AC at 50...400 Hz DC standard
[Uc] control circuit voltage	220...230 V AC 50...400 Hz 220...230 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
[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
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	389 mm
Depth	255 mm
Net weight	21.5 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 cm
Package 1 Length	43 cm
Package 1 Weight	20.11 kg

Offer Sustainability

Sustainable offer status	Green Premium product
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
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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