

CR1F500F7

Magnetic latching contactor, TeSys

F,3P(3NO),AC-3 <=440V 500A,110V DC coil



Main

Range	TeSys
Product name	TeSys F
Product or component type	Magnetic contactor
Device short name	CR1F
Utilisation category	AC-3 AC-1 AC-4
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit: 1000 V AC Power circuit: 1000 V DC
[Ie] rated operational current	460 A (at <40 °C) AC/DC AC-4 for power circuit 500 A (at <40 °C) AC/DC AC-3 for power circuit 700 A (at <40 °C) AC/DC AC-1 for power circuit
[Uc] control circuit voltage	110 V AC 400 Hz 110 V AC 50/60 Hz 110 V DC
[Ith] conventional free air thermal current	700 A (at 40 °C) for power circuit
Irms rated making capacity	5000 A for power circuit
Rated breaking capacity	2500 A at 1000 V for power circuit 3560 A at 600...690 V for power circuit 4500 A at 500 V for power circuit 5000 A at 220...440 V for power circuit
Associated fuse rating	800 A BS88 for power circuit 800 A gG for power circuit 500 A aM for power circuit
Average impedance	0.18 Ohm - Ith 700 A 50 Hz for control circuit
[Ui] rated insulation voltage	Control circuit: 1000 V conforming to BS 775 Control circuit: 1000 V conforming to IEC 60158-1 Control circuit: 1000 V conforming to IEC 60947-4 Control circuit: 1500 V conforming to VDE 0110 group C
Power dissipation per pole	45 W AC-3 88 W AC-1 83 W AC-4
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[RETURN]UL[RETURN]CSA[RETURN]EAC[RETURN]CE
Connections - terminals	Bolted connection
Operating time	40...80 ms latching 50...100 ms unlatching
Mechanical durability	1000000 cycles
Maximum operating rate	120 cyc/mn 40 °C
Coil type	Standard

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Complementary

Control circuit voltage limits	Latching: 0.85...1.1 Uc Unlatching: 0.85...1.1 Uc
Average consumption	1650 VA AC 50/60 Hz latching 1800 VA AC 400 Hz latching 1800 VA DC latching 13 VA AC 400 Hz unlatching 9.5 VA AC 50/60 Hz unlatching 13 VA DC unlatching

Environment

Protective treatment	TH
Ambient air temperature for operation	-15...70 °C
Operating altitude	3000 m without derating
Operating position	+/- 5°
Height	400 mm
Width	288 mm
Depth	232 mm
Net weight	11.3 kg
Quantity per set	Set of 10

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
RoHS exemption information	 Yes
China RoHS Regulation	 China RoHS Declaration
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