



# Product data sheet

## Characteristics

# CR1F185Q7

## TeSys F magnetic latching contactor - 3P(3 NO) - 185 A - 380 V AC coil





## Main

Range	TeSys
Product name	TeSys F
Product or component type	Magnetic latching contactor
Device short name	CR1F
Device application	Control
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-1 AC-4
Poles description	3P
Power pole contact composition	3 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	90 kW at 400 V AC 50/60 Hz (AC-4)
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	380 V AC 50/60 Hz
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
[Icw] 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 - Ith 275 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	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 <sup>2</sup> Connector 1 cable(s) 150 mm <sup>2</sup> Power circuit: bolted connection
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 Uc Unlatching: 0.85...1.1 Uc
Average consumption	1600 VA AC 50/60 Hz latching 8 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	174 mm
Width	168.5 mm
Depth	181 mm
Net weight	4.6 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
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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