

# CR1F185F7

TeSys F magnetic latching contactor - 3P(3 NO) -  
185 A - 110 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	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	1000 V AC 25...200 Hz
[Ie] rated operational current	275 A ( $\leq 40\text{ }^{\circ}\text{C}$ ) at $\leq 440\text{ V AC AC-1}$ 185 A ( $\leq 40\text{ }^{\circ}\text{C}$ ) at $\leq 440\text{ V AC AC-3}$ 170 A ( $\leq 40\text{ }^{\circ}\text{C}$ ) at $\leq 440\text{ V AC AC-4}$
Motor power kW	90 kW 400 V AC 50/60 Hz AC-4
Control circuit type	DC standard AC 50...400 Hz
[Uc] control circuit voltage	110 V AC 50...400 Hz 110 V DC
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 $\leq 40\text{ }^{\circ}\text{C}$ 10 s 920 A $\leq 40\text{ }^{\circ}\text{C}$ 30 s 740 A $\leq 40\text{ }^{\circ}\text{C}$ 1 min 500 A $\leq 40\text{ }^{\circ}\text{C}$ 3 min 400 A $\leq 40\text{ }^{\circ}\text{C}$ 10 min 1500 A $\leq 40\text{ }^{\circ}\text{C}$ 1 s 1500 A $\leq 40\text{ }^{\circ}\text{C}$ 5 s
Associated fuse rating	200 A aM at $\leq 440\text{ V}$ 315 A gG at $\leq 440\text{ V}$ 315 A BS88 at $\leq 440\text{ V}$
Average impedance	0.36 mOhm at 50 Hz - Ith 275 A
[Ui] rated insulation voltage	1500 V conforming to VDE 0110 group C 1000 V conforming to IEC 60158-1 1000 V conforming to IEC 60947-4 1000 V conforming to BS 775
Power dissipation per pole	12 W AC-3 26 W AC-1
Connections - terminals	Lugs-ring terminals 1 cable(s) 150 mm <sup>2</sup> Connector 1 cable(s) 150 mm <sup>2</sup> Bars 2 x (25 x 3 mm) Power circuit : bolted connection
Tightening torque	18 N.m
Operating time	35...40 ms latching 50...100 ms unlatching
Mechanical durability	1 Mcycles
Operating rate	120 cyc/h at $\leq 40\text{ }^{\circ}\text{C}$

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## Complementary

Control circuit voltage limits	0.85...1.1 Uc latching 0.85...1.1 Uc unlatching
Average coil consumption	1750 VA AC 50...400 Hz latching 1750 VA DC latching 11 VA AC 50...400 Hz unlatching 11 VA DC 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 derating in temperature
height	174 mm
width	168.5 mm
depth	181 mm
product weight	4.6 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1028 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available