Product data sheet
Characteristics

CR1F185M7
Magnetic latching contactor,TeSys F,3P(3NO),AC-3 <=440V 185A,220-230V 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-4 AC-1 AC-3
Poles description	3P
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...400 Hz DC standard
[Uc] control circuit voltage	220...230 V AC 50...400 Hz 220...230 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 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

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[RETURN]UKCA
Connections - terminals	Bars 2 cable(s) - busbar cross section: 25 x 3 mm Lugs-ring terminals 1 cable(s) 150 mm² Connector 1 cable(s) 150 mm² 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 coil consumption	1750 VA AC 50...400 Hz latching 11 VA AC 50...400 Hz unlatching 1750 VA DC latching 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
Height	174 Mm
Width	168.5 Mm
Depth	181 Mm
Net weight	4.6 Kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	21.0 Cm
Package 1 Width	20.0 Cm
Package 1 Length	24.0 Cm
Package 1 Weight	5.075 Kg

Offer Sustainability

Recyclability potential, in %	91
Total lifecycle Carbon footprint	777 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	92.57614631755857
Carbon footprint of the manufacturing phase [A1 to A3]	93 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.9185269097392107
Carbon footprint of the distribution phase [A4]	0.9 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.42730668495695784
Carbon footprint of the installation phase [A5]	0.4 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	675.0015023776818
Carbon footprint of the use phase [B2, B3, B4, B6]	675 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	8.480275668184364
Carbon footprint of the end-of-life phase [C1 to C4]	8 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Total lifecycle Carbon footprint	777
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No, we have minimized the use of plastic in the packaging in compliance with regulations and c
SCIP Number	B2d4179a-eb65-40a3-a1ef-d9a33060486f
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised