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## 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-1 AC-3 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	265 A 104 °F (40 °C)) <= 440 V AC AC-3 350 A 104 °F (40 °C)) <= 440 V AC AC-1 245 A 104 °F (40 °C)) <= 440 V AC AC-4
Motor power kW	132 kW 400 V AC 50/60 Hz AC-4)
Control circuit type	AC 50...400 Hz DC standard
[Uc] control circuit voltage	110 V AC 50...400 Hz 110 V DC
Irms rated making capacity	2940 A
Rated breaking capacity	2450 A 220...440 V 2200 A 500 V 800 A 1000 V 1700 A 660/690 V
[Icw] rated short-time withstand current	2200 A 104 °F (40 °C) - 1 s 2200 A 104 °F (40 °C) - 5 s 2200 A 104 °F (40 °C) - 10 s 1230 A 104 °F (40 °C) - 30 s 950 A 104 °F (40 °C) - 1 min 620 A 104 °F (40 °C) - 3 min 480 A 104 °F (40 °C) - 10 min
Associated fuse rating	315 A aM <= 440 V 400 A BS88 <= 440 V 400 A gG <= 440 V
Average impedance	0.32 mOhm - Ith 350 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60158-1 1000 V IEC 60947-4 1000 V BS 775 1500 V VDE 0110 group C
Power dissipation per pole	22 W AC-3 39 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 UL CSA EAC CE UKCA
Connections - terminals	Lugs-ring terminals 1 0.37 in <sup>2</sup> (240 mm <sup>2</sup> ) Connector 1 0.37 in <sup>2</sup> (240 mm <sup>2</sup> ) Bars 2 32 x 4 mm Power circuit bolted connection
Tightening torque	309.78 lbf.in (35 N.m)
Operating time	40...75 ms latching 50...100 ms unlatching

Mechanical durability	1 Mcycles
Maximum operating rate	120 cyc/h 104 °F (40 °C)

## Complementary

Control circuit voltage limits	Latching 0.85...1.1 Uc Unlatching 0.85...1.1 Uc
Average consumption	1800 VA AC 50...400 Hz latching 12 VA AC 50...400 Hz unlatching 1800 VA DC latching 12 VA DC unlatching

## Environment

Protective treatment	TC
Ambient Air Temperature for Operation	5...158 °F (-15...70 °C)
Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
Operating altitude	9842.52 ft (3000 m) without derating
Height	7.99 in (203 mm)
Width	7.93 in (201.5 mm)
Depth	8.39 in (213 mm)
Net Weight	16.31 lb(US) (7.4 kg)

## Ordering and shipping details

Category	22331-CTR,F-LINE,DC,OPEN,NONREV
Discount Schedule	I12
GTIN	3389110548334
Returnability	No
Country of origin	CZ

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.84 in (25.0 cm)
Package 1 Width	9.84 in (25.0 cm)
Package 1 Length	9.88 in (25.1 cm)
Package 1 Weight	17.73 lb(US) (8.044 kg)

## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</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.
PVC free	Yes

## Contractual warranty

Warranty	18 months
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