Product data sheet
Characteristics

LC1V160FE7
Contactor, vacuum contactor (LC1-V), 3P, 160A, AC-3, 110 to 120VAC coil



Main

Range	TeSys
Product name	TeSys V
Product or Component Type	Vacuum contactor
Device short name	LC1V
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Control circuit type	AC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO

Complementary

Coil technology	Without built-in bidirectional peak limiting diode suppressor
[Ie] rated operational current	160 A (at <104 °F (40 °C)) AC AC-1 for power circuit 160 A (at <131 °F (55 °C)) AC AC-3 for power circuit
Motor power kW	110 KW at 525 V AC 50/60 Hz 150 KW at 690 V AC 50/60 Hz 200 KW at 1000 V AC 50/60 Hz 45 KW at 230 V AC 50/60 Hz 75 kW at 400 V AC 50/60 Hz
Maximum Horse Power Rating	100 Hp at 380 V AC 50/60 Hz conforming to CSA 125 Hp at 480 V AC 50/60 Hz conforming to CSA 150 Hp at 600 V AC 50/60 Hz conforming to CSA 200 Hp at 800 V AC 50/60 Hz conforming to CSA 250 Hp at 1000 V AC 50/60 Hz conforming to CSA 400 Hp at 1500 V AC 50/60 Hz conforming to CSA 50 Hp at 200 V AC 50/60 Hz conforming to CSA 60 hp at 240 V AC 50/60 Hz conforming to CSA
Auxiliary contact composition	2 NO + 1 NC
[Uc] control circuit voltage	110...120 V AC 50/60 Hz
Control circuit voltage limits	0.8...1.1 Uc at 50/60 Hz
[Ui] rated insulation voltage	Power circuit 1500 V Earth circuit 2000 V Control circuit 690 V
[Uimp] rated impulse withstand voltage	8 kV
Mounting Support	Plate Rail
Connections - terminals	Control circuit connector 1 x 0.004 in² (2.5 mm²) Power circuit connector 1 x 0.1 in² (70 mm²)
Tightening torque	Power circuit 123.9 lbf.in (14 N.m) connector 0.1 in² (70 mm²) hexagonal
[Ue] rated operational voltage	Power circuit <= 1000 V AC 50/60 Hz
[Ith] conventional free air thermal current	10 A for control circuit 160 A for power circuit
Irms rated making capacity	1900 A at 1500 V AC for power circuit conforming to IEC 60947
Rated breaking capacity	1600 A at 1500 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit 160 A aM at <= 1000 V for power circuit conforming to IEC 60947
Inrush power in VA	300 VA
Hold-in power consumption in VA	30 VA

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Operating time	18...22 ms on closing 95...115 ms on opening
Mechanical durability	5000000 cycles
Maximum operating rate	1200 cyc/h
Rated operational power in W	130000 W 400 V AC-4
Height	6.6 in (168 mm)
Width	4.8 in (123 mm)
Depth	5.9 in (151 mm)
Net Weight	8.4 lb(US) (3.8 kg)

Environment

Standards	EN 60947-4-1 IEC 60947-4-1
IP degree of protection	IP00 IEC 60529
Ambient Air Temperature for Operation	23…131 °F (-5…55 °C)
Ambient Air Temperature for Storage	-40…176 °F (-40…80 °C)
Operating altitude	8202.1...11811.02 ft (2500...3600 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Shock resistance	10 gn contactor closed 10 gn contactor opened
Vibration resistance	2 gn 10…500 Hz

Ordering and shipping details

Category	US10CP121208
Discount Schedule	0CP1
GTIN	3389110984002
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.30 in (23.62 cm)
Package 1 Width	8.80 in (22.35 cm)
Package 1 Length	9.30 in (23.62 cm)
Package 1 Weight	10.10 lb(US) (4.58 kg)

Offer Sustainability

EU RoHS Directive	Not compliant
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
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