

Product data sheet

Characteristics

LC1V160P7

Contactor, vacuum contactor LC1-V, 3P, 160A, AC-3, 220 to 240VAC coil



Main

Range	TeSys
Product name	TeSys V
Product or component type	Vacuum contactor
Device short name	LC1V
Contactor application	Resistive load Motor control
Utilisation category	AC-4 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 <40 °C) AC AC-1 for power circuit 160 A (at <55 °C) AC AC-3 for power circuit 130 A AC AC-4 for power circuit
Motor power kW	110 kW at 525 V AC 50/60 Hz (AC-3) 150 kW at 690 V AC 50/60 Hz (AC-3) 200 kW at 1000 V AC 50/60 Hz (AC-3) 45 kW at 230 V AC 50/60 Hz (AC-3) 75 kW at 400 V AC 50/60 Hz (AC-3)
Motor power hp	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	220...240 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
[Uiimp] rated impulse withstand voltage	8 kV
Mounting support	Plate Rail
Connections - terminals	Control circuit: connector 1 x 2.5 mm ² Power circuit: bolted connection
Tightening torque	Power circuit: 14 N.m - on connector - cable 70 mm ² hexagonal screw head
[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

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Hold-in power consumption in VA	30 VA
Operating time	18...22 ms on closing 95...115 ms on opening
Mechanical durability	5000000 cycles
Maximum operating rate	1200 cyc/h
Height	168 mm
Width	123 mm
Depth	151 mm
Net weight	3.8 kg

Environment

Standards	EN 60947-4-1 IEC 60947-4-1
IP degree of protection	IP00 conforming to IEC 60529
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-40...80 °C
Operating altitude	2500...3600 m
Fire resistance	850 °C conforming to IEC 60695-2-1
Shock resistance	10 gn contactor closed 10 gn contactor opened
Vibration resistance	2 gn 10...500 Hz

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.92 cm
Package 1 Width	31.24 cm
Package 1 Length	31.5 cm
Package 1 Weight	4.9 kg
Unit Type of Package 2	S04
Number of Units in Package 2	3
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	15.016 kg
Unit Type of Package 3	P06
Number of Units in Package 3	12
Package 3 Height	80 cm
Package 3 Width	80 cm
Package 3 Length	60 cm
Package 3 Weight	63.844 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
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