

# Product data sheet

## Characteristics

# LC1V320P7

Contactor, vacuum contactor LC1-V, 3P, 320A, 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-3 AC-4 AC-1
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	320 A (at <40 °C) AC AC-1 for power circuit 320 A (at <55 °C) AC AC-3 for power circuit 270 A AC AC-4 for power circuit
Motor power kW	160 kW at 400 V AC 50/60 Hz (AC-3) 220 kW at 525 V AC 50/60 Hz (AC-3) 280 kW at 690 V AC 50/60 Hz (AC-3) 400 kW at 1000 V AC 50/60 Hz (AC-3) 90 kW at 230 V AC 50/60 Hz (AC-3)
Motor power hp	100 Hp at 200 V AC 50/60 Hz conforming to CSA 125 Hp at 240 V AC 50/60 Hz conforming to CSA 200 Hp at 380 V AC 50/60 Hz conforming to CSA 250 Hp at 480 V AC 50/60 Hz conforming to CSA 300 Hp at 600 V AC 50/60 Hz conforming to CSA 400 Hp at 800 V AC 50/60 Hz conforming to CSA 500 Hp at 1000 V AC 50/60 Hz conforming to CSA 800 hp at 1500 V AC 50/60 Hz conforming to CSA
Auxiliary contact composition	1 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
[Uimp] rated impulse withstand voltage	8 kV
Mounting support	Plate Rail
Connections - terminals	Control circuit: connector 1 x 2.5 mm <sup>2</sup> Power circuit: connector 1 x 185 mm <sup>2</sup>
Tightening torque	Power circuit: 39 N.m - on connector - cable 185 mm <sup>2</sup> 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 320 A for power circuit
Irms rated making capacity	3800 A at 1500 V AC for power circuit conforming to IEC 60947
Rated breaking capacity	3200 A at 1500 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit 400 A aM at <= 1000 V for power circuit conforming to IEC 60947
Inrush power in VA	600 VA

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Hold-in power consumption in VA	20 VA
Operating time	24...32 ms on closing 95...115 ms on opening
Mechanical durability	2500000 cycles
Maximum operating rate	1200 cyc/h
Height	222 mm
Width	201 mm
Depth	159 mm
Net weight	10.5 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	3600...4500 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	31.5 cm
Package 1 Width	33.53 cm
Package 1 Length	40.89 cm
Package 1 Weight	12.47 kg

## Offer Sustainability

EU RoHS Directive	Not compliant
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
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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