



Main

Range	TeSys Deca
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-1
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 1000 V AC 25...400 Hz Power circuit: <= 460 V DC
[Ie] rated operational current	1000 A (at <40 °C) at <= 440 V AC AC-1 for power circuit 620 A (at <40 °C) at <= 440 V AC AC-3 for power circuit
[Uc] control circuit voltage	220 V AC 50 Hz

Complementary

Motor power kW	200 kW at 220/240 V AC 50/60 Hz (AC-3) 335 kW at 380/400 V AC 50/60 Hz (AC-3) 375 kW at 415 V AC 50/60 Hz (AC-3) 400 kW at 440 V AC 50/60 Hz (AC-3) 400 kW at 500 V AC 50/60 Hz (AC-3) 450 kW at 660/690 V AC 50/60 Hz (AC-3) 450 kW at 1000 V AC 50/60 Hz (AC-3)
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	Without
[Ith] conventional free air thermal current	1000 A (at 40 °C) for power circuit
[Icw] rated short-time withstand current	5050 A 40 °C - 10 s for power circuit 4400 A 40 °C - 30 s for power circuit 3400 A 40 °C - 1 min for power circuit 2200 A 40 °C - 3 min for power circuit 1600 A 40 °C - 10 min for power circuit
Associated fuse rating	800 A gG at <= 440 V for power circuit 630 A aM at <= 440 V for power circuit 1000 A gG at <= 440 V for power circuit
Average impedance	0.12 mOhm - Ith 1000 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit: 1000 V conforming to IEC 60947-4-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Mechanical durability	5 Mcycles
Electrical durability	0.33 Mcycles 1000 A AC-1 at Ue <= 440 V 0.8 Mcycles 640 A AC-3 at Ue <= 440 V 0.6 Mcycles 470 A AC-3 at Ue 660/690 V
Control circuit type	AC at 50 Hz
Control circuit voltage limits	0.85...1.1 Uc (-5...55 °C):operational 40...400 Hz 0.25...0.5 Uc (-5...55 °C):drop-out 40...400 Hz
Inrush power in VA	1650 VA 50 Hz cos phi 0.9 (at 20 °C) 1650 VA 60 Hz cos phi 0.9 (at 20 °C)

Hold-in power consumption in VA	22 VA 50 Hz cos phi 0.9 (at 20 °C) 22 VA 60 Hz cos phi 0.9 (at 20 °C)
Heat dissipation	22 W
Operating time	40...80 ms closing 100...200 ms opening
Maximum operating rate	1200 cyc/h 55 °C
Connections - terminals	Control circuit: screw clamp terminals - cable stiffness: flexible without cable end Control circuit: screw clamp terminals - cable stiffness: flexible with cable end Control circuit: screw clamp terminals - cable stiffness: rigid without cable end Power circuit: bus terminal - cable stiffness: solid without cable end - busbar cross section: 60 x 5 mm
Tightening torque	Control circuit: 1.2 N.m - on screw clamp terminals Power circuit: 58 N.m - on bus terminal Power circuit: 58 N.m - on cable connector
Mounting support	Rail






Environment

Standards	GB 14048.4 IEC 60947-4-1
Product certifications	CCC[RETURN]CE
Permissible ambient air temperature around the device	-40...60 °C operation 60...70 °C with derating -60...80 °C storage
Operating altitude	3000 m without derating
Mechanical robustness	Vibrations contactor open (2 Gn, 5...300 Hz) conforming to IEC 60068-2-6 Vibrations contactor closed (4 Gn, 5...300 Hz) conforming to IEC 60068-2-6 Shocks 11 ms contactor closed (15 gn) conforming to IEC 60068-2-27 Shocks 11 ms contactor open (6 Gn) conforming to IEC 60068-2-27
Height	280 mm
Width	309 mm
Depth	255 mm
Net weight	20.1 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	30.0 cm
Package 1 Width	36.0 cm
Package 1 Length	46.0 cm
Package 1 Weight	18758.0 g
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	75.0 cm
Package 2 Width	60.0 cm
Package 2 Length	80.0 cm
Package 2 Weight	85.032 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	 End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins