



TeSys D contactor - 3P - <= 440 V - 65 A AC-3 - 24...60 V AC/DC coil

Local distributor code: 407811863 LC1D65ABNE

Main

Range	TeSys TeSys Deca
Product name	TeSys D Green TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-1 AC-3e
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz
[le] rated operational current	80 A (at <60 $^{\circ}$ C) at <= 440 V AC-1 for power circuit 65 A (at <60 $^{\circ}$ C) at <= 440 V AC-3 for power circuit 65 A (at <60 $^{\circ}$ C) at <= 440 V AC-3e for power circuit
Motor power kW	18.5 kW at 220230 V AC 50 Hz (AC-3) 30 kW at 380400 V AC 50 Hz (AC-3) 37 kW at 415 V AC 50 Hz (AC-3) 37 kW at 440 V AC 50 Hz (AC-3) 37 kW at 500 V AC 50 Hz (AC-3) 37 kW at 660690 V AC 50 Hz (AC-3) 18.5 kW at 220230 V AC 50 Hz (AC-3e) 30 kW at 380400 V AC 50 Hz (AC-3e) 37 kW at 415 V AC 50 Hz (AC-3e) 37 kW at 440 V AC 50 Hz (AC-3e) 37 kW at 440 V AC 50 Hz (AC-3e) 37 kW at 500 V AC 50 Hz (AC-3e) 37 kW at 500 V AC 50 Hz (AC-3e)
Motor power HP (UL / CSA)	5 hp at 115 V AC 60 Hz for 1 phase motors 10 hp at 230/240 V AC 60 Hz for 1 phase motors 20 hp at 230/240 V AC 60 Hz for 3 phases motors 20 hp at 230/240 V AC 60 Hz for 3 phases motors 40 hp at 460/480 V AC 60 Hz for 3 phases motors 50 hp at 575/600 V AC 60 Hz for 3 phases motors
[Uc] control circuit voltage	2460 V AC 50/60 Hz 2460 V DC
Coil type	AC/DC electronic
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Overvoltage category	III

[Ith] conventional free air thermal current	80 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling circuit
Irms rated making capacity	1000 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	110 A 40 °C - 10 min for power circuit 260 A 40 °C - 1 min for power circuit 520 A 40 °C - 10 s for power circuit 900 A 40 °C - 1 s for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit
Associated fuse rating	125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1
Electrical durability	1.8 Mcycles 57 A AC-3 at Ue <= 440 V 0.5 Mcycles 80 A AC-1 at Ue <= 440 V 1.8 Mcycles 57 A AC-3e at Ue <= 440 V
Power dissipation per pole	9.6 W AC-1 6.3 W AC-3 6.3 W AC-3e
Front cover	With
Mounting support	Rail Plate
Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC 60335-1
Product certifications	CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping) UKCA
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 125 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm²flexible without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm²flexible with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm²flexible without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm²flexible without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm²flexible with cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm²flexible with cable end
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm² hexagonal screw head 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm² hexagonal screw head 4 mm Power circuit: 2.5 N.m - with screwdriver pozidriv No 2 Control circuit: 1.7 N.m - with screwdriver pozidriv No 2
Operating time	5565 ms closing 20120 ms opening (date code >= 17221) 2080 ms opening (date code >= 18011)
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	6 Mcycles
	3600 cyc/h 60 °C

Complementary

Coil technology	Built-in bidirectional peak limiting	
Control circuit voltage limits	<= 0.1 Uc (-4070 °C):drop-out AC/DC 0.851.1 Uc (-4060 °C):operational AC 0.81.1 Uc (-4060 °C):operational DC 11.1 Uc (6070 °C):operational AC/DC	
Inrush power in VA	15 VA 50/60 Hz (at 20 °C)	
Inrush power in W	16 W at 20 °C	
Hold-in power consumption in VA	1 VA (at 20 °C) 50/60 Hz	
Hold-in power consumption in W	0.7 W at 20 °C	
Heat dissipation	0.7 W at 50/60 Hz	
Auxiliary contacts type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1	
Signalling circuit frequency	25400 Hz	
Minimum switching current	5 mA for signalling circuit	
Minimum switching voltage	17 V for signalling circuit	
Non-overlap time	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact	
Insulation resistance	> 10 MOhm for signalling circuit	

Environment

IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-4060 °C 6070 °C with derating
Ambient air temperature for storage	-6080 °C
Operating altitude	03000 m
Fire resistance	850 °C conforming to IEC 60695-2-1
Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor open: 10 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms
Height	122 mm
Width	55 mm
Depth	120 mm
Net weight	1.002 kg
Colour	Grey (SE GREY 6) Green (SE GREEN 2)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.06 kg
Package 1 Height	6.2 cm
Package 1 width	13.7 cm

Package 1 Length	15.2 cm
Unit Type of Package 2	S02
Number of Units in Package 2	9
Package 2 Weight	9.853 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information

Contractual warranty

Halogen content performance

Environmental Disclosure

Circularity Profile

WEEE

Warranty	18 months

Halogen free plastic parts & cables product

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Product Environmental Profile

End of Life Information