

TeSys D contactor - 3P - <= 440 V - 65 A AC-3 - 100...250 V AC/DC coil

Local distributor code: 407811889 LC1D65AKUE

Main

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-1 AC-3 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 °C) at <= 440 V AC-1 for power circuit 65 A (at <60 °C) at <= 440 V AC-3 for power circuit 65 A (at <60 °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 4500 V AC 50 Hz (AC-3e) 37 kW at 500 V AC 50 Hz (AC-3e) 37 kW at 660690 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 200/208 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	100250 V AC 50/60 Hz 100250 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) 12.5 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 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 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: 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			
Maximum operating rate	3600 cyc/h 60 °C			

Complementary

Coil technology	Built-in bidirectional peak limiting <= 0.1 Uc (-4070 °C):drop-out AC/DC 0.851.1 Uc (-4060 °C):operational AC/DC 11.1 Uc (6070 °C):operational AC/DC			
Control circuit voltage limits				
Inrush power in VA	18 VA 50/60 Hz (at 20 °C)			
Inrush power in W	14 W at 20 °C			
Hold-in power consumption in VA	1.8 VA (at 20 °C) 50/60 Hz			
Hold-in power consumption in W	1.2 W at 20 °C			
Heat dissipation	1.2 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			
Climatic withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D			
Pollution degree	3			
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			
Ambient air temperature for operation	-4060 °C 6070 °C with derating			
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	1.056 kg
Package 1 Height	6 cm
Package 1 width	13.8 cm
Package 1 Length	15.2 cm

Offer Sustainability	
Package 2 Length	40 cm
Package 2 width	30 cm
Package 2 Height	15 cm
Package 2 Weight	9.797 kg
Number of Units in Package 2	9
Unit Type of Package 2	S02

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			
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			
Halogen content performance	Halogen free plastic parts & cables product			

Contractual warranty

Warranty	18 months		
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