

LC1D32KUE

TeSys Deca contactor, 3P(3NO), AC-3/AC-3e/
≤440V 32A, 100-250V AC/DC coil



Main

Range	TeSys TeSys Deca
Product name	TeSys D Green TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
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 25...400 Hz
[Ie] rated operational current	32 A (at <60 °C) at ≤ 440 V AC-3 for power circuit 50 A (at <60 °C) at ≤ 440 V AC-1 for power circuit 32 A (at <60 °C) at ≤ 440 V AC-3e for power circuit
Motor power kW	7.5 kW at 220...230 V AC 50 Hz (AC-3) 15 kW at 380...400 V AC 50 Hz (AC-3) 15 kW at 415 V AC 50 Hz (AC-3) 15 kW at 440 V AC 50 Hz (AC-3) 18.5 kW at 500 V AC 50 Hz (AC-3) 18.5 kW at 660...690 V AC 50 Hz (AC-3) 7.5 kW at 220...230 V AC 50 Hz (AC-3e) 15 kW at 380...400 V AC 50 Hz (AC-3e) 15 kW at 415 V AC 50 Hz (AC-3e) 15 kW at 440 V AC 50 Hz (AC-3e) 18.5 kW at 500 V AC 50 Hz (AC-3e) 18.5 kW at 660...690 V AC 50 Hz (AC-3e)
Motor power HP (UL / CSA)	2 Hp at 115 V AC 60 Hz for 1 phase motors 5 Hp at 230/240 V AC 60 Hz for 1 phase motors 10 Hp at 200/208 V AC 60 Hz for 3 phases motors 10 Hp at 230/240 V AC 60 Hz for 3 phases motors 20 Hp at 460/480 V AC 60 Hz for 3 phases motors 25 hp at 575/600 V AC 60 Hz for 3 phases motors
[Uc] control circuit voltage	100...250 V AC 50/60 Hz 100...250 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	10 A (at 60 °C) for signalling circuit 50 A (at 60 °C) for power circuit
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	550 A at 440 V for power circuit conforming to IEC 60947

[Icw] rated short-time withstand current	100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 60 A 40 °C - 10 min for power circuit 138 A 40 °C - 1 min for power circuit 260 A 40 °C - 10 s for power circuit 430 A 40 °C - 1 s for power circuit
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at ≤ 690 V coordination type 1 for power circuit 63 A gG at ≤ 690 V coordination type 2 for power circuit
Average impedance	2 mOhm - Ith 50 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	2.1 Mcycles 29 A AC-3 at Ue ≤ 440 V 0.9 Mcycles 50 A AC-1 at Ue ≤ 440 V 2.1 Mcycles 29 A AC-3e at Ue ≤ 440 V
Power dissipation per pole	2 W AC-3 5 W AC-1 2 W AC-3e
Front cover	With
Mounting support	Plate Rail
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) 1... 4 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1... 4 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1... 4 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1... 2.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1... 4 mm²solid Control circuit: screw clamp terminals 2 cable(s) 1... 4 mm²solid Power circuit: screw clamp terminals 1 cable(s) 2.5...10 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 2.5...10 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 1... 10 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1.5...6 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 1.5...10 mm²solid Power circuit: screw clamp terminals 2 cable(s) 2.5... 10 mm²solid
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: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 M4 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 M3.5

Operating time	45...55 ms closing 20...90 ms opening
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	15 Mcycles
Maximum operating rate	3600 cyc/h 60 °C

Complementary

Coil technology	Built-in bidirectional peak limiting
Control circuit voltage limits	$\leq 0.1 U_c$ (-40...70 °C):drop-out AC/DC 0.85...1.1 U_c (-40...60 °C):operational AC/DC 1...1.1 U_c (60...70 °C):operational AC/DC
Inrush power in VA	25 VA 50/60 Hz (at 20 °C)
Inrush power in W	18 W at 20 °C
Hold-in power consumption in VA	1.6 VA (at 20 °C) 50/60 Hz
Hold-in power consumption in W	1.1 W at 20 °C
Heat dissipation	1.1 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	25...400 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	-60...80 °C
Operating altitude	0...3000 m
Fire resistance	850 °C conforming to IEC 60695-2-1
Mechanical robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor closed: 15 Gn for 11 ms Shocks contactor open: 8 Gn for 11 ms
Ambient air temperature for operation	-40...60 °C 60...70 °C with derating
Height	85 mm
Width	45 mm
Depth	92 mm
Net weight	0.438 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	459.0 g
Package 1 Height	5.5 cm
Package 1 width	9.5 cm
Package 1 Length	12.0 cm
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	7.183 kg

Package 2 Height	15.0 cm
Package 2 width	30.0 cm
Package 2 Length	40.0 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
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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