Product data sheet Characteristics

LC1D32KUE

TeSys D contactor 3P 32A AC-3 up to 440V coil 100-250V AC/DC





Main

Sys D Green Intactor I:ID Issistive load I
Sys D Green Intractor ID Intractor I
esistive load es
sistive load sistive load c-3 c-1 sistive load sistive l
sistive load btor control 2-3 2-1 3-1 4-1 4-1 NO wer circuit: <= 690 V AC 25400 Hz
-3 -1 NO wer circuit: <= 690 V AC 25400 Hz
NO
NO
wer circuit: <= 690 V AC 25400 Hz
A (at <60 °C) at <= 440 V AC-3 for power circuit A (at <60 °C) at <= 440 V AC-1 for power circuit
5 kW at 220230 V AC 50 Hz (AC-3) kW at 380400 V AC 50 Hz (AC-3) kW at 415 V AC 50 Hz (AC-3) kW at 440 V AC 50 Hz (AC-3) .5 kW at 500 V AC 50 Hz (AC-3) .5 kW at 660690 V AC 50 Hz (AC-3)
np at 115 V AC 60 Hz for 1 phase motors np at 230/240 V AC 60 Hz for 1 phase motors hp at 200/208 V AC 60 Hz for 3 phases motors hp at 230/240 V AC 60 Hz for 3 phases motors hp at 230/240 V AC 60 Hz for 3 phases motors hp at 460/480 V AC 60 Hz for 3 phases motors hp at 575/600 V AC 60 Hz for 3 phases motors
0250 V AC 50/60 Hz 0250 V DC
C/DC electronic
NO + 1 NC
V conforming to IEC 60947

[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		
[lcw] 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		
Power dissipation per pole	2 W AC-3 5 W AC-1		
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		
Product certifications	CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping)		
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: screw clamp terminals 1 cable(s) 2.510 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 110 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 1.510 mm²solid Power circuit: screw clamp terminals 2 cable(s) 2.510 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		
Operating time	4555 ms closing 2090 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	<= 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

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	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
Compatibility code	LC1D

Environment

IP degree of protection	IP20 front face conforming to IEC 60529
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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
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz
	Vibrations contactor closed: 4 Gn, 5300 Hz
	Shocks contactor closed: 15 Gn for 11 ms
	Shocks contactor open: 8 Gn for 11 ms
Height	85 mm
Width	45 mm
Depth	92 mm
Net weight	0.438 kg
Colour	Grey (SE GREY 6)
	Green (SE GREEN 2)
	5.55 (51.5

Packing Units

3		
Package 1 Weight	0.456 kg	
Package 1 Height	0.550 dm	
Package 1 width	0.950 dm	
Package 1 Length	1.180 dm	

Offer Sustainability

Sustainable offer status	Green Premium product	
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	

Warranty

18 months