Product datasheet

Specification





TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 80 A - 24 V AC 50/60 Hz coil

Local distributor code: 402821502

LC1D806B7

EAN Code: 3389110957457

Main

Range	TeSys
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-3e AC-4 AC-1
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit: <= 300 V DC 25400 Hz Power circuit: <= 690 V AC
[le] Rated Operational Current	125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] Control Circuit Voltage	24 V AC 50/60 Hz

Complementary

Motor Power Kw	22 kW at 220230 V AC 50/60 Hz (AC-3) 37 kW at 380400 V AC 50/60 Hz (AC-3) 45 kW at 415440 V AC 50/60 Hz (AC-3) 55 kW at 500 V AC 50/60 Hz (AC-3) 45 kW at 660690 V AC 50/60 Hz (AC-3) 15 kW at 400 V AC 50/60 Hz (AC-4) 22 kW at 220230 V AC 50/60 Hz (AC-3e) 37 kW at 380400 V AC 50/60 Hz (AC-3e) 45 kW at 415440 V AC 50/60 Hz (AC-3e) 55 kW at 500 V AC 50/60 Hz (AC-3e)	
Motor Power Hp	45 kW at 660690 V AC 50/60 Hz (AC-3e) 7.5 hp at 120 V AC 50/60 Hz for 1 phase motors	
	15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 30 hp at 200/208 V AC 50/60 Hz for 3 phases motors 30 hp at 230/240 V AC 50/60 Hz for 3 phases motors 60 hp at 460/480 V AC 50/60 Hz for 3 phases motors 60 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Compatibility Code	LC1D	
Pole Contact Composition	3 NO	
Protective Cover	With	
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 125 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 1100 A at 440 V for power circuit conforming to IEC 60947	

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Rated Breaking Capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	640 A 40 °C - 10 s for power circuit
Current	990 A 40 °C - 1 s for power circuit
	135 A 40 °C - 10 min for power circuit
	320 A 40 °C - 1 min 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	10 A gG for signalling circuit conforming to IEC 60947-5-1
	200 A gG at <= 690 V coordination type 1 for power circuit
	160 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit
Power Dissipation Per Pole	5.1 W AC-3
. ever Dissipation ver vere	12.5 W AC-1
	5.1 W AC-3e
	0.1 W //O 00
[Ui] Rated Insulation Voltage	Power circuit: 600 V CSA certified
	Power circuit: 600 V UL certified
	Power circuit: 1000 V conforming to IEC 60947-4-1
	Signalling circuit: 690 V conforming to IEC 60947-1
	Signalling circuit: 600 V CSA certified
	Signalling circuit: 600 V UL certified
	Organismy Circuit. 000 V OL Certified
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand	8 kV conforming to IEC 60947
Voltage	0 KV Cornorming to IEO 00041
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	4 Mcycles
Electrical Durability	0.8 Mcycles 125 A AC-1 at Ue <= 440 V
	1.5 Mcycles 80 A AC-3 at Ue <= 440 V
	1.5 Mcycles 80 A AC-3e at Ue <= 440 V
Control Circuit Type	AC at 50/60 Hz
Coil Technology	Without built in augregoes module
	Without built-in suppressor module
Control Circuit Voltage Limits	0.851.1 Uc (-4055 °C):operational AC 60 Hz
	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz
	0.81.1 Uc (-4055 °C):operational AC 50 Hz
	11.1 Uc (5570 °C):operational AC 50/60 Hz
Inrush Power In Va	245 VA 60 Hz cos phi 0.75 (at 20 °C)
va	245 VA 60 Hz cos phi 0.75 (at 20 °C) 245 VA 50 Hz cos phi 0.75 (at 20 °C)
	270 VA 30 112 000 pill 0.73 (at 20 °C)
Hold-In Power Consumption In Va	26 VA 60 Hz cos phi 0.3 (at 20 °C)
	26 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	610 W at 50/60 Hz
O	
Operating Time	2035 ms closing
	620 ms opening
Maximum Operating Rate	3600 cyc/h 60 °C
Connections - Terminals	Control circuit: lugs-ring terminals - external diameter: 8 mm
	Power circuit: bars 1 - busbar cross section: 3 x 16 mm
	Power circuit: lugs-ring terminals - external diameter: 17 mm
Tightening Torque	Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5
	Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5
	Power circuit: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6
	Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6
	Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6
	Power circuit: 5 N.m - on bars - with screwdriver flat to 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6
	Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5
	Control of out it. 1.2 (4.1) On tagoriting terminals - with Sciewariver poziting into 2 195.3
Auxiliary Contact Composition	1 NO + 1 NC
- ·	

type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
25400 Hz
17 V for signalling circuit
5 mA for signalling circuit
> 10 MOhm for signalling circuit
1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Plate Rail

Environment

Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product Certifications	GOST BV RINA CSA UL CCC DNV LROS (Lloyds register of shipping) GL
Ip Degree Of Protection	IP20 front face conforming to IEC 60529
Protective Treatment	TH conforming to IEC 60068-2-30
Climatic Withstand	conforming to IACS E10 exposure to damp heat
Permissible Ambient Air Temperature Around The Device	-4060 °C 6070 °C with derating
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) Shocks contactor open (8 Gn for 11 ms) Vibrations contactor closed (3 Gn, 5300 Hz) Shocks contactor closed (10 Gn for 11 ms)
Height	127 mm
Width	85 mm
Depth	130 mm
Net Weight	1.59 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	11.0 cm
Package 1 Width	16.0 cm
Package 1 Length	16.3 cm
Package 1 Weight	1.6 kg

Contractual warranty

Warranty

18 months

22 May 2024



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations