Product datasheet





Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 115A, 120 V AC 60 Hz coil, lugs/bars terminals

LC1D1156G6

! Discontinued on: 1 Jan 2008

! Discontinued

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-1 AC-4 AC-3 AC-3e
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit: <= 1000 V AC 25400 Hz Power circuit: <= 300 V DC
[le] Rated Operational Current	200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 115 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 115 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] Control Circuit Voltage	120 V AC 60 Hz

Complementary

Motor Power Kw	30 kW at 220230 V AC 50/60 Hz (AC-3)
	55 kW at 380400 V AC 50/60 Hz (AC-3)
	59 kW at 415440 V AC 50/60 Hz (AC-3)
	75 kW at 500 V AC 50/60 Hz (AC-3)
	80 kW at 660690 V AC 50/60 Hz (AC-3)
	65 kW at 1000 V AC 50/60 Hz (AC-3)
	18.5 kW at 400 V AC 50/60 Hz (AC-4)
	30 kW at 220230 V AC 50/60 Hz (AC-3e)
	55 kW at 380400 V AC 50/60 Hz (AC-3e)
	59 kW at 415440 V AC 50/60 Hz (AC-3e)
	75 kW at 500 V AC 50/60 Hz (AC-3e)
	80 kW at 660690 V AC 50/60 Hz (AC-3e)
	65 kW at 1000 V AC 50/60 Hz (AC-3e)
Motor Power Hp	30 hp at 200/208 V AC 50/60 Hz for 3 phases motors
	40 hp at 230/240 V AC 50/60 Hz for 3 phases motors
	75 hp at 460/480 V AC 50/60 Hz for 3 phases motors
	100 hp at 575/600 V AC 50/60 Hz for 3 phases motors
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Contact Compatibility	M13
Protective Cover	With
[Ith] Conventional Free Air Thermal Current	200 A (at 60 °C) for power circuit

Irms Rated Making Capacity	1260 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
	250 77 DO 101 Signaling Ground Contorning to 120 00047 0 1
Rated Breaking Capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	250 A 40 °C - 10 min for power circuit
Current	550 A 40 °C - 1 min for power circuit
	950 A 40 °C - 10 s for power circuit 1100 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	250 A gG at <= 690 V coordination type 1 for power circuit
	200 A gG at <= 690 V coordination type 2 for power circuit
	10 A gG for signalling circuit
Average Impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
Power Dissipation Per Pole	24 W AC-1
	7.9 W AC-3
	7.9 W AC-3e
[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
O	
Overvoltage Category	
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	8 kV conforming to IEC 60947
Safety Reliability Level	B10d = 684932 cycles contactor with nominal load conforming to EN/ISO 13849-1
	B10d = 10000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical Durability	8 Mcycles
Electrical Durability	0.8 Mcycles 200 A AC-1 at Ue <= 440 V
•	0.95 Mcycles 115 A AC-3 at Ue <= 440 V
	0.95 Mcycles 115 A AC-3e at Ue <= 440 V
Control Circuit Type	AC at 60 Hz
Coil Technology	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 60 Hz
	11.1 Uc (5570 °C):operational AC 60 Hz
Inrush Power In Va	300 VA 60 Hz cos phi 0.8 (at 20 °C)
Hold-In Power Consumption In Va	22 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	38 W at 60 Hz
Operating Time	620 ms opening
	2050 ms closing
Maximum Operating Rate	2400 cyc/h 60 °C
Connections - Terminals	Control circuit: lugs-ring terminals - external diameter: 8 mm
	Power circuit: lugs-ring terminals - external diameter: 25 mm
	Power circuit: bars 1 - busbar cross section: 5 x 25 mm
Tightening Torque	Control circuit: 1.2 N m - on luge ring terminals, with coroundriver flat (4.5 mm M2.5
ngntening rorque	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: 12 N.m - on lugs-ring terminals hexagonal screw head 13 mm M8
	Power circuit: 12 N.m - on bars hexagonal screw head 13 mm M8
Auxiliary Contact Composition	-
	1 NO + 1 NC
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 Voltage	17 V for signalling circuit	
Minimum Switching Current	5 mA for signalling circuit	
Insulation Resistance	> 10 MOhm 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	
Mounting Support	Rail Plate	

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	UL CSA LROS (Lloyds register of shipping) RINA DNV GL GOST BV CCC
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 conforming to IEC 60947-1 Annex Q category D 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) Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor closed (15 Gn for 11 ms) Shocks contactor open (6 Gn for 11 ms)
Height	158 mm
Width	120 mm
Depth	136 mm
Net Weight	2.5 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	18.5 cm
Package 1 Width	16.8 cm
Package 1 Length	20.8 cm
Package 1 Weight	2.11 kg

Contractual warranty

Warranty

18 months



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Transparency RoHS/REACh

Well-being performance

	Mercury Free	
	Rohs Exemption Information	Yes
⊘	Pvc Free	

Certifications & Standards

Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
	Product out of China RoHS scope. Substance declaration for your information
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	End of Life Information