Product datasheet

Specifications





Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 115A, 48V DC standard coil, lugs/bars terminals

LC1D1156ED

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	48 V DC	

Complementary

Motor Power Kw

	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	M10
Protective Cover	With
[Ith] Conventional Free Air Thermal Current	200 A (at 60 °C) for power circuit

30 kW at 220...230 V AC 50/60 Hz (AC-3)

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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
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
Tower Biosipation For Fore	7.9 W AC-3
	7.9 W AC-3e
[Hi] Poted Insulation Valtons	Device size it COO V COA sertified
[Ui] Rated Insulation Voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified
	Power circuit: 1000 V oc 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
Overvoltage Category	III
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	DC standard
Coil Technology	With integral suppression device
Control Circuit Voltage Limits	0.751.2 Uc (-4055 °C):operational DC
Common Circums Volumes Immes	0.150.4 Uc (-4070 °C):drop-out DC
	11.2 Uc (5570 °C):operational DC
Inrush Power In W	270365 W (at 20 °C)
Hold-In Power Consumption In W	2.45.1 W at 20 °C
Operating Time	2035 ms closing 4075 ms opening
Time Constant	25 ms
Maximum Operating Rate	1200 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 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
	i ower circuit. 12 N.III - OH bars Hexagorial screw Head 13 MM M6
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	Plate Rail	

Environment

Standards	CSA C22.2 No 14
Standards	
	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1
	IEC 60947-5-1
	UL 508
Product Certifications	CSA
	UL
	RINA
	CCC
	BV
	LROS (Lloyds register of shipping)
	DNV
	GOST
	GL
	UKCA
	CE
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	-4060 °C
Temperature Around The Device	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	16.8 cm
Package 1 Width	20.8 cm
Package 1 Length	18.5 cm
Package 1 Weight	2.11 kg

Contractual warranty

Warranty

18 months



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Transparency RoHS/REACh

Well-being performance

②	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