Product datasheet

Specification





TeSys D contactor 3P 40A AC-3 up to 440V coil 48-130V AC/DC ring-lugs

LC1D40A6EHE

EAN Code: 3606489493363

Main

Range	TeSys TeSys Deca
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-1 AC-3e
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz
[le] Rated Operational Current	60 A (at <60 °C) at <= 440 V AC-1 for power circuit 40 A (at <60 °C) at <= 440 V AC-3 for power circuit 40 A (at <60 °C) at <= 440 V AC-3e for power circuit
[Uc] Control Circuit Voltage	48130 V AC 50/60 Hz 48130 V DC

Complementary

Motor Power Kw	11 kW at 220230 V AC 50 Hz (AC-3)
	18.5 kW at 380400 V AC 50 Hz (AC-3)
	22 kW at 415 V AC 50 Hz (AC-3)
	22 kW at 440 V AC 50 Hz (AC-3)
	22 kW at 500 V AC 50 Hz (AC-3)
	30 kW at 660690 V AC 50 Hz (AC-3)
	11 kW at 220230 V AC 50 Hz (AC-3e)
	18.5 kW at 380400 V AC 50 Hz (AC-3e)
	22 kW at 415 V AC 50 Hz (AC-3e)
	22 kW at 440 V AC 50 Hz (AC-3e)
	22 kW at 500 V AC 50 Hz (AC-3e)
	30 kW at 660690 V AC 50 Hz (AC-3e)
Motor Power Hp	3 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
	30 hp at 460/480 V AC 60 Hz for 3 phases motors
	30 hp at 575/600 V AC 60 Hz for 3 phases motors
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Protective Cover	With
[Ith] Conventional Free Air	60 A (at 60 °C) for power circuit
Thermal Current	10 A (at 60 °C) for signalling circuit

Irms Rated Making Capacity	800 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	800 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	72 A 40 °C - 10 min for power circuit
Current	165 A 40 °C - 1 min for power circuit
	320 A 40 °C - 10 s for power circuit
	720 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	80 A gG at <= 690 V coordination type 1 for power circuit
	80 A gG at <= 690 V coordination type 2 for power circuit
	10 A gG for signalling circuit conforming to IEC 60947-5-1
Average Impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit
Power Dissipation Per Pole	5.4WAO.4
Power Dissipation Per Pole	5.4 W AC-1 2.4 W AC-3
	2.4 W AC-3 2.4 W AC-3e
	2.117.10-00
[Ui] Rated Insulation Voltage	Power circuit: 690 V conforming to IEC 60947-4-1
	Signalling circuit: 690 V conforming to IEC 60947-1
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand	6 kV conforming to IEC 60947
Voltage	
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	6 Mcycles
Electrical Durability	2 Mcycles 35 A AC-3 at Ue <= 440 V
Liouriour Burubiney	0.7 Mcycles 60 A AC-1 at Ue <= 440 V
	2 Mcycles 35 A AC-3e at Ue <= 440 V
Control Circuit Type	AC/DC at 50/60 Hz AC/DC electronic
Coil Technology	Built-in bidirectional peak limiting
	Built in bidirectional peak inniting
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	23 VA 50/60 Hz (at 20 °C)
Inrush Power In W	19 W (at 20 °C)
Hold-In Power Consumption In Va	1.4 VA 50/60 Hz (at 20 °C)
Hold-In Power Consumption In W	0.9 W at 20 °C
Heat Dissipation	0.9 W at 50/60 Hz
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Operating Time	5565 ms closing
	2080 ms opening
Maximum Operating Rate	3600 cyc/h 60 °C
Connections - Terminals	Power circuit luga ring terminals external diameter 46.5
Connections - Terminals	Power circuit: lugs-ring terminals - external diameter: 16.5 mm Control circuit: lugs-ring terminals - external diameter: 8 mm
Tightening Torque	Control circuit: 1.7 N m. on lugo ring terminals, with consulting flat (3.6 mm 140.5
gcimig Torque	Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5
	Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5
	Power circuit: 6 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6
	Power circuit: 6 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M4 Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5
	Solate. Should for the offing terminals - with solewanter pozicity into 2 190.0
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
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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

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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
	120 00000 1
Product Certifications	CCC
	CSA
	EAC
	UL
	KC
	DNV-GL
	LROS (Lloyds register of shipping)
	UKCA
Ip Degree Of Protection	IP20 front face conforming to IEC 60529
Climatic Withstand	(: MODE (A
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 open (10 Gn for 11 ms)
	Shocks contactor closed (15 Gn for 11 ms)
1	Chocks contactor closed (10 off for 11 ms)
Height	122 mm
Width	55 mm
Depth	120 mm
Net Weight	0.992 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.5 cm
Package 1 Width	13.7 cm
Package 1 Length	15.2 cm
Package 1 Weight	905.0 g

Contractual warranty

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Sustainability Green Premium*

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

	Mercury Free	
⊘	Rohs Exemption Information	Yes
Ø	Halogen Free Plastic Parts & Cables Product	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
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