



TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 80 A - 120 V AC 60 Hz coil

Local distributor code: 402822763

LC1D80G6

! Discontinued on: 9 Feb 2023

! Discontinued

EAN Code: 3389110440829

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	120 V AC 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)
	45 kW at 660690 V AC 50/60 Hz (AC-3e)
Motor Power Hp	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	10 A (at 60 °C) for signalling circuit
Thermal Current	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
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
	12.5 W AC-1
	5.1 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
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	8 kV conforming to IEC 60947
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	10 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 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	220 VA 60 Hz cos phi 0.75 (at 20 °C)
Hold-In Power Consumption In Va	22 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	610 W at 60 Hz
Operating Time	2035 ms closing
	620 ms opening
Maximum Operating Rate	3600 cyc/h 60 °C

Connections - Terminals	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible with
	cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end
	Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end
	Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without
	cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end
	Power circuit: connector 1 450 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 425 mm² - cable stiffness: flexible without cable end Power circuit: connector 1 450 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 416 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 450 mm² - cable stiffness: solid without cable end Power circuit: connector 2 425 mm² - cable stiffness: solid without cable end
Tightening Torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 12 N.m - on connector hexagonal screw head 4 mm
	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
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	BV GL RINA
	GOST LROS (Lloyds register of shipping) UL CSA DNV 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
Permissible Ambient Air Temperature Around The Device	-4060 °C 60���70 °C with derating
Operating Altitude	03000 m

850 °C conforming to IEC 60695-2-1

V1 conforming to UL 94

Fire Resistance

Flame Retardance

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	13.500 cm
Package 1 Width	10.500 cm
Package 1 Length	13.500 cm
Package 1 Weight	1.540 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	8
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	12.740 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	64
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	109.920 kg

Contractual warranty

Warranty 18 months



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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