Product data sheet





IEC contactor, TeSys Deca, nonreversing, 25A, 15HP at 480VAC, 3 phase, 3 pole, 3 NO, 120VAC 50/60Hz coil, open style

LC1D256G7

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 181.20 USD

Main

TeSys Deca	
Contactor	
LC1D	
Resistive load	
Motor control	
AC-3	
AC-1	
AC-4	
AC-3e	
3P	
Power circuit <= 690 V AC 25400 Hz	
Power circuit <= 300 V DC	
25 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit	
40 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit	
25 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	
120 V AC 50/60 Hz	
	LC1D Resistive load Motor control AC-3 AC-1 AC-4 AC-3e 3P Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit

Motor Power Kw	5.5 kW at 220230 V AC 50/60 Hz (AC-3) 11 kW at 380400 V AC 50/60 Hz (AC-3) 11 kW at 415440 V AC 50/60 Hz (AC-3) 15 kW at 500 V AC 50/60 Hz (AC-3) 15 kW at 660690 V AC 50/60 Hz (AC-3) 5.5 kW at 400 V AC 50/60 Hz (AC-4) 5.5 kW at 220230 V AC 50/60 Hz (AC-3e) 11 kW at 380400 V AC 50/60 Hz (AC-3e) 11 kW at 415440 V AC 50/60 Hz (AC-3e) 15 kW at 500 V AC 50/60 Hz (AC-3e) 15 kW at 660690 V AC 50/60 Hz (AC-3e)
Maximum Horse Power Rating	3 hp at 230/240 V AC 50/60 Hz for 1 phase motors 2 hp at 115 V AC 50/60 Hz for 1 phase motors 7.5 hp at 230/240 V AC 50/60 Hz for 3 phase motors 15 hp at 460/480 V AC 50/60 Hz for 3 phase motors 20 hp at 575/600 V AC 50/60 Hz for 3 phase motors 7.5 hp at 200/208 V AC 50/60 Hz for 3 phase motors
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Protective Cover	With
[Ith] Conventional Free Air Thermal Current	10 A (at 140 °F (60 °C)) for signalling circuit 40 A (at 140 °F (60 °C)) for power circuit

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947
	430 A at 440 V for power circuit comorning to IEC 00947
Rated Breaking Capacity	450 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	240 A 104 °F (40 °C) - 10 s for power circuit
Current	380 A 104 °F (40 °C) - 1 s for power circuit
	50 A 104 °F (40 °C) - 10 min for power circuit 120 A 104 °F (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
	63 A gG at <= 690 V coordination type 1 for power circuit
	40 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2 mOhm - Ith 40 A 50 Hz for power circuit
Power Dissipation Per Pole	3.2 W AC-1
	1.25 W AC-3
	1.25 W AC-3e
[Ui] Rated Insulation Voltage	Power circuit 690 V IEC 60947-4-1
	Power circuit 600 V CSA
	Power circuit 600 V UL
	Signalling circuit 690 V IEC 60947-1
	Signalling circuit 600 V CSA Signalling circuit 600 V UL
Overvoltage Category	
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	6 kV IEC 60947
Safety Reliability Level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical Durability	15 Mcycles
Electrical Durability	1.65 Mcycles 25 A AC-3 <= 440 V
	1.4 Mcycles 40 A AC-1 <= 440 V
	1.65 Mcycles 25 A AC-3e <= 440 V
Control Circuit Type AC 50/60 Hz	
Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz
-	0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz
	0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz
	11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz
Inrush Power In Va	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))
	70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-In Power Consumption In Va	7.5.VA 60. Hz coo.phi.0.2 (at 60.°F /20.°C)\\
noid-in Fower Consumption in Va	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat Dissipation	23 W at 50/60 Hz
Operating Time	12, 22 me closing
	1222 ms closing 419 ms opening
Operating rime	4 19 ms opening
	3600 cyc/h 140 °F (60 °C)
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)
Maximum Operating Rate	
Maximum Operating Rate Connections - Terminals	3600 cyc/h 140 °F (60 °C) Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.39 in (10 mm)
Maximum Operating Rate Connections - Terminals	3600 cyc/h 140 °F (60 °C) Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.39 in (10 mm) Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5
Maximum Operating Rate Connections - Terminals	3600 cyc/h 140 °F (60 °C) Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.39 in (10 mm)
Maximum Operating Rate Connections - Terminals	3600 cyc/h 140 °F (60 °C) Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.39 in (10 mm) Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5
Maximum Operating Rate Connections - Terminals	3600 cyc/h 140 °F (60 °C) Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.39 in (10 mm) Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 22.13 lbf.in (2.5 N.m) lugs-ring terminals flat Ø 8 mm M4
Maximum Operating Rate Connections - Terminals Tightening Torque	3600 cyc/h 140 °F (60 °C) Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.39 in (10 mm) Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 22.13 lbf.in (2.5 N.m) lugs-ring terminals flat Ø 8 mm M4 Power circuit 22.1 lbf.in (2.5 N.m) lugs-ring terminals Philips No 2 M4

Auxiliary Contacts Type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC 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 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1
Product Certifications	BV RINA LROS (Lloyds register of shipping) UL CSA DNV CCC GL GOST UKCA
Ip Degree Of Protection IP20 front face IEC 60529	
Protective Treatment THIEC 60068-2-30	
Climatic Withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
Permissible Ambient Air Temperature Around The Device	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
Operating Altitude	09842.52 ft (03000 m)
Fire Resistance	1562 °F (850 °C) 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 8 Gn for 11 ms)
Height	3.3 in (85 mm)
Width	1.8 in (45 mm)
Depth	3.6 in (92 mm)
Net Weight	0.82 lb(US) (0.37 kg)

Ordering and shipping details

Category	US10I1222354	
Discount Schedule	0112	
Gtin	3389110804515	
Returnability	No	

Country Of Origin FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.3 in (10.9 cm)
Package 1 Width	3.5 in (9.0 cm)
Package 1 Length	2.1 in (5.4 cm)
Package 1 Weight	13.05 oz (370.0 g)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

②	Reach Free Of Svhc	
⊘	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	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov