Product data sheet
Characteristics

LC1D40004G6
IEC contactor, TeSys D, nonreversing, 60A resistive, 4 pole, 4 NO, 120VAC 60Hz coil, open style

Main

Range of Product	TeSys D TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
[Ue] rated operational voltage	Power circuit 690 V AC 25...400 Hz
[Ie] rated operational current	60 A 140 °F (60 °C)) 440 V AC AC-1 power circuit
[Uc] control circuit voltage	120 V AC 60 Hz

Complementary

[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	10 A 140 °F (60 °C) control circuit 40 A 140 °F (60 °C) power circuit
Rated breaking capacity	800 kA 440 V power circuit IEC 60947
Associated fuse rating	10 A gG control circuit IEC 60947-5-1 80 A 690 V type 1 power circuit 80 A 690 V type 2 power circuit
Average impedance	1.5 Ohm - Ith 60 A 50 Hz power circuit
[Ui] rated insulation voltage	Control circuit 600 V CSA Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-4-1 Power circuit 690 V IEC 60947-4-1
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3
Pole contact composition	4 NO
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Irms rated making capacity	140 A AC control circuit IEC 60947-5-1 800 A 440 V AC power circuit IEC 60947
Non-overlap time	1.5 Ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Protective cover	With
Control circuit voltage limits	Drop-out 0.3...0.6 Uc 50/60 Hz 140 °F (60 °C)) Operational 0.85...1.1 Uc 60 Hz 140 °F (60 °C))
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Inrush power in VA	140 VA 0.75 68 °F (20 °C))
Coil type	Standard
Control circuit type	AC
Heat dissipation	2…3 W 50/60 Hz control circuit
Minimum switching current	5 mA control circuit
Minimum switching voltage	17 V control circuit

Insulation resistance	> 10 MOhm control circuit
Mechanical durability	15000000 cycles
Operating altitude	9842.52 ft (3000 m) without derating
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
Operating time	12...22 ms closing 4...19 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Connections - terminals	Control circuit screw clamp terminal 1 x 0.00…0.01 in² (1…4 mm²)solid without cable end Control circuit screw clamp terminal 2 x 0.00…0.01 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminal 2 x 0.00…0.01 in² (1…4 mm²)solid without cable end Power circuit screw clamp terminal 1 x 0.00…0.02 in² (2.5…16 mm²)solid without cable end Power circuit screw clamp terminal 2 x 0.00…0.02 in² (2.5…16 mm²)solid without cable end
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Philips No 2 Power circuit 44.25 lbf.in (5 N.m) screw clamp terminal flat Ø 6 mm hexagonal Power circuit 44.25 lbf.in (5 N.m) screw clamp terminal Philips No 2 hexagonal Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2 Power circuit 44.25 lbf.in (5 N.m) screw clamp terminal pozidriv No 2
Mounting Support	Plate Rail
Standards	CSA C22.2 No 14 EN/IEC 60947-5-1 UL 508 EN/IEC 60947-4-1
Product Certifications	CSA DNV GL BV UL CCC RINA LROS (Lloyds register of shipping) UKCA

Environment

IP degree of protection	IP2x VDE 0106
Protective treatment	THIEC 60068-2-30
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Ambient Air Temperature for Operation	23…140 °F (-5…60 °C)
Ambient Air Temperature for Storage	-76…176 °F (-60…80 °C)
Permissible ambient air temperature around the device	-40…158 °F (-40…70 °C) at Uc
Shock resistance	10 gn contactor opened 15 gn contactor closed
Vibration resistance	2 gn 5…300 Hz contactor opened 4 gn 5…300 Hz contactor closed

Ordering and shipping details

Category	22357-CTR,TESYS D,OPEN,40-65A AC
Discount Schedule	I12
GTIN	3389110069341
Nbr. of units in pkg.	1
Package weight(Lbs)	3.16 lb(US) (1.432 kg)
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	5.12 in (13.0 cm)
Package 1 width	3.74 in (9.5 cm)
Package 1 Length	5.31 in (13.5 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
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
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months