Product data sheet
Characteristics

LC1D40008F6
TeSys Deca contactor , 4P(2 NO + 2 NC) , AC-1 , <= 440V, 60 A , 110V AC 60 Hz coil

Main

Range	TeSys
Range of product	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 Power circuit: <= 300 V DC
[Ie] rated operational current	60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	110 V AC 60 Hz

Complementary

Compatibility code	LC1D
Pole contact composition	2 NO + 2 NC
Contact compatibility	M1
Protective cover	Without
[Ith] conventional free air thermal current	60 A (at 60 °C) for power circuit
Irms rated making capacity	800 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	320 A 40 °C - 10 s for power circuit 720 A 40 °C - 1 s for power circuit 72 A 40 °C - 10 min for power circuit 165 A 40 °C - 1 min for power 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
Average impedance	1.5 MOhm - Ith 60 A 50 Hz for power circuit
Power dissipation per pole	5.4 W AC-1
[Ui] rated insulation voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 690 V conforming to IEC 60947-4-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	6 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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Mechanical durability	6 Mcycles
Electrical durability	1.4 Mcycles 60 A AC-1 at Ue <= 440 V
Control circuit type	AC at 60 Hz
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.85...1.1 Uc (-40…60 °C):operational AC 60 Hz 0.3...0.6 Uc (-40…70 °C):drop-out AC 60 Hz 1...1.1 Uc (60…70 °C):operational AC 60 Hz
Inrush power in VA	140 VA 60 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	4…5 W at 60 Hz
Operating time	4...19 ms opening 12...26 ms closing
Maximum operating rate	3600 Cyc/H 60 °C
Connections - terminals	Control circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible with-cable end Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible with-cable end Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: solid without-cable end Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: solid without-cable end Power circuit: screw clamp terminals 1 1…35 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 1…25 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1…35 mm² - cable stiffness: flexible with-cable end Power circuit: screw clamp terminals 2 1…25 mm² - cable stiffness: flexible with-cable end Power circuit: screw clamp terminals 1 1…35 mm² - cable stiffness: solid without-cable end Power circuit: screw clamp terminals 2 1…25 mm² - cable stiffness: solid without-cable end
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 8 N.m - on screw clamp terminals - cable 25…35 mm² hexagonal screw head 4 mm Power circuit: 5 N.m - on screw clamp terminals - cable 1…25 mm² hexagonal screw head 4 mm
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
Product certifications	CCC[RETURN]GOST[RETURN]DNV[RETURN]RINA[RETURN]BV[RETURN]UL[RETURN]LROS (Lloyds register of shipping)[RETURN]GL[RETURN]CSA
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	-40…60 °C 60…70 °C with derating
Operating altitude	0...3000 m
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks contactor open (8 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms) Vibrations contactor opened (2 Gn, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz)
Height	127 Mm

Width	85 Mm
Depth	125 Mm
Net weight	1.44 Kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.1 Cm
Package 1 Width	12.6 Cm
Package 1 Length	13.2 Cm
Package 1 Weight	1.5 Kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
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