Product data sheet Characteristics

LC1D40008F6

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





Main

Mani	
Range	TeSys
Product name	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power pole contact composition	2 NO + 2 NC
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC
[le] rated operational current	60 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit
Control circuit type	AC 60 Hz
[Uc] control circuit voltage	110 V AC 60 Hz
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
[lth] conventional free air thermal current	60 A 140 °F (60 °C) power circuit
Irms rated making capacity	800 A 440 V power circuit IEC 60947
Rated breaking capacity	800 A 440 V power circuit IEC 60947
[lcw] rated short-time withstand current	320 A 104 °F (40 °C) - 10 s power circuit 720 A 104 °F (40 °C) - 1 s power circuit 72 A 104 °F (40 °C) - 10 min power circuit 165 A 104 °F (40 °C) - 1 min power circuit
Associated fuse rating	80 A gG <= 690 V type 1 power circuit 80 A gG <= 690 V type 2 power circuit
Average impedance	1.5 mOhm - Ith 60 A 50 Hz power circuit
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 690 V IEC 60947-4-1
Electrical durability	1.4 Mcycles 60 A AC-1 <= 440 V
Power dissipation per pole	5.4 W AC-1
Front cover	Without
Mounting support	Plate Rail
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 GOST DNV RINA BV UL LROS (Lloyds register of shipping) GL CSA

Connections towning!	Control circuit corous clares to serie als 0.0.00
Connections - terminals	Control circuit screw clamp terminals 2 0.00
	0.00 in ² (12.5 mm ²)flexible with cable end Control circuit screw clamp terminals 1 0.00
	0.01 in ² (14 mm ²)flexible without cable end
	Control circuit screw clamp terminals 2 0.00
	0.01 in² (14 mm²)flexible without cable end
	Control circuit screw clamp terminals 1 0.00
	0.01 in ² (14 mm ²)flexible with cable end
	Control circuit screw clamp terminals 1 0.00
	0.01 in² (14 mm²)solid without cable end
	Control circuit screw clamp terminals 2 0.00
	0.01 in ² (14 mm ²)solid without cable end
	Power circuit screw clamp terminals 1 0.000.05 in ²
	(135 mm²)flexible without cable end
	Power circuit screw clamp terminals 2 0.000.04 in ²
	(125 mm²)flexible without cable end
	Power circuit screw clamp terminals 1 0.000.05 in ²
	(135 mm²)flexible with cable end
	Power circuit screw clamp terminals 2 0.000.04 in ²
	(125 mm²)flexible with cable end
	Power circuit: screw clamp terminals 1 cable(s) 1 35 mm²solid without cable end
	Power circuit: screw clamp terminals 2 cable(s) 1
	25 mm²solid without cable end
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp
	terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp
	terminals Philips No 2
	Power circuit 70.81 lbf.in (8 N.m) screw clamp
	terminals 0.040.05 in² (2535 mm²) hexagonal
	0.16 in (4 mm)
	Power circuit 44.25 lbf.in (5 N.m) screw clamp
	terminals 0.000.04 in ² (125 mm ²) hexagonal
	0.16 in (4 mm)
Operating time	419 ms opening
	1226 ms closing
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
	10au E11/130 13049-1
Mechanical durability	6 Moveles
Mechanical durability	6 Mcycles
Mechanical durability Maximum operating rate	6 Mcycles 3600 cyc/h 140 °F (60 °C)

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 60 Hz
Inrush power in VA	140 VA 60 Hz 0.75 68 °F (20 °C))
Hold-in power consumption in VA	13 VA 60 Hz 0.3 68 °F (20 °C))
Heat dissipation	45 W 60 Hz
Contact compatibility	M1
Compatibility code	LC1D

Environment

IP degree of protection	IP20 front face IEC 60529	
Protective treatment	TH IEC 60068-2-30	
Pollution degree	3	
Ambient air temperature for operation	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating	
Ambient air temperature for storage	-76176 °F (-6080 °C)	
Operating altitude	09842.52 ft (03000 m)	
Fire resistance	1562 °F (850 °C) IEC 60695-2-1	
Flame retardance	V1 UL 94	
Mechanical robustness	Vibrations contactor open2 Gn, 5300 Hz Vibrations contactor closed4 Gn, 5300 Hz Shocks contactor closed15 Gn for 11 ms Shocks contactor open10 Gn for 11 ms	

Height	5.00 in (127 mm)
Maximum Width	3.35 in (85 mm)
Depth	4.92 in (125 mm)
Net Weight	3.17 lb(US) (1.44 kg)

Ordering and shipping details

Category	22357 - CTR,TESYS D,OPEN,40-65A AC
Discount Schedule	112
GTIN	00785901136811
Nbr. of units in pkg.	1
Package weight(Lbs)	3.3 lb(US) (1.50 kg)
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE	
Package 1 Height	3.58 in (9.1 cm)	
Package 1 width	4.96 in (12.6 cm)	
Package 1 Length	5.20 in (13.2 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 EPEU 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