Product data sheet
Characteristics

LC1F630N7
TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 630 A - coil 415 V AC



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-4 AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	1000 A (at <40 °C) at <= 440 V AC AC-1 630 A (at <55 °C) at <= 440 V AC AC-3
Motor power kW	335 KW at 380...400 V AC 50/60 Hz (AC-3) 375 KW at 415 V AC 50/60 Hz (AC-3) 400 KW at 440 V AC 50/60 Hz (AC-3) 400 KW at 500 V AC 50/60 Hz (AC-3) 450 KW at 660...690 V AC 50/60 Hz (AC-3) 450 KW at 1000 V AC 50/60 Hz (AC-3) 200 KW at 220...230 V AC 50/60 Hz (AC-3) 100 kW at 400 V AC 50/60 Hz (AC-4)
[Uc] control circuit voltage	415 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1000 A (at 40 °C) 1250 A
Rated breaking capacity	5040 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	5050 A 40 °C - 10 s 4400 A 40 °C - 30 s 3400 A 40 °C - 1 min 2200 A 40 °C - 3 min 1600 A 40 °C - 10 min
Associated fuse rating	1000 A gG at <= 440 V 630 A aM at <= 440 V
Average impedance	0.12 mOhm - Ith 1000 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	120 W AC-1 48 W AC-3
Mounting support	Plate
Standards	EN 60947-1 JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Product certifications	RINA CCC RMRoS DNV UL ABS CB BV LROS (Lloyds register of shipping)
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 60 x 5 mm Power circuit bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 58 N.m
Control circuit voltage limits	Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C)) Drop-out: 0.25...0.5 Uc 40...400 Hz (at 55 °C)
Inrush power in VA	1650 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	22 VA 40...400 Hz cos phi 0.9 (at 20 °C)
Heat dissipation	20 W
Operating time	40...80 ms closing 100...200 ms opening
Mechanical durability	5 Mcycles
Maximum operating rate	1200 cyc/h 55 °C
Compatibility code	LC1F

Environment

IP degree of protection	IP20 front face with shrouds IEC 60529 IP20 front face with shrouds VDE 0106
Protective treatment	TH
Ambient air temperature for operation	23…131 °F (-5…55 °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)
Height	11.97 in (304 mm)
Width	12.17 in (309 mm)
Maximum Depth	10.04 in (255 mm)
Net Weight	41.01 lb(US) (18.6 kg)

Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	00785901141501
Nbr. of units in pkg.	1
Package weight(Lbs)	41.19 lb(US) (18.68 kg)
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	11.02 in (28 cm)
Package 1 width	11.02 in (28 cm)
Package 1 Length	13.78 in (35 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
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