Product data sheet
Characteristics

LC1F1504U7
TeSys F contactor - 4P (4 NO) - AC-1 - <= 440 V 250 A - coil 240 V AC

Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz
[Ie] rated operational current	250 A 104 °F (40 °C)) <= 440 V AC-1
[Uc] control circuit voltage	240 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	250 A 104 °F (40 °C)
Rated breaking capacity	1200 A IEC 60947-4-1
[Icw] rated short-time withstand current	1200 A 104 °F (40 °C) - 10 s 700 A 104 °F (40 °C) - 30 s 600 A 104 °F (40 °C) - 1 min 450 A 104 °F (40 °C) - 3 min 350 A 104 °F (40 °C) - 10 min
Associated fuse rating	160 A aM <= 440 V 250 A gG <= 440 V
Average impedance	0.35 mOhm - Ith 250 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	22 W AC-1
Mounting support	Plate
Standards	EN 60947-1 IEC 60947-1 IEC 60947-4-1 EN 60947-4-1 JIS C8201-4-1
Product certifications	DNV RINA CB ABS CCC BV UL LROS (Lloyds register of shipping) RMRoS

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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.
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Connections - terminals	Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²)flexible 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 25 x 3 mm Power circuit lugs-ring terminals 1 0.19 in² (120 mm²) Power circuit connector 1 0.19 in² (120 mm²) Power circuit bolted connection
Tightening torque	Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 159.31 lbf.in (18 N.m)
Control circuit voltage limits	Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C)) Drop-out 0.35...0.55 Uc 40...400 Hz 131 °F (55 °C))
Inrush power in VA	770 VA 40...400 Hz 0.9 68 °F (20 °C))
Hold-in power consumption in VA	8.1 VA 40...400 Hz 0.9 68 °F (20 °C))
Heat dissipation	5.9…7.2 W
Operating time	35 ms closing at Uc) 130 ms opening at Uc)
Mechanical durability	10 Mcycles
Maximum operating rate	2400 cyc/h 131 °F (55 °C)
Compatibility code	LC1F

Environment

IP degree of protection	IP2x front face with shrouds IEC 60529 IP2x front face with shrouds VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-40…140 °F (-40…60 °C)
Ambient air temperature for storage	-76…176 °F (-60…80 °C)
Permissible ambient air temperature around the device	140…158 °F (60…70 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without derating
Height	6.69 in (170 mm)
Maximum Width	7.89 in (200.5 mm)
Depth	6.73 in (171 mm)
Net Weight	8.44 lb(US) (3.83 kg)

Ordering and shipping details

Category	22336 - CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	03389110885743
Nbr. of units in pkg.	1
Package weight(Lbs)	10.79 lb(US) (4.89 kg)
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	8.27 in (21 cm)
Package 1 width	7.87 in (20 cm)
Package 1 Length	10.24 in (26 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