Product datasheet





(!) Discontinued

TeSys F contactor - 3P (3 NO) -AC-3 - <= 440 V 400 A - coil 415 V AC

LC1F400N7

! Discontinued on: 18 Jan 2023

! End-of-service on: 31 Dec 2023

Main

Range	TeSys	
Range of product	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	
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC	
[Uc] control circuit voltage	415 V AC 40400 Hz	
[le] rated operational current	500 A (at <40 °C) at <= 440 V AC AC-1 400 A (at <55 °C) at <= 440 V AC AC-3	

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	500 A (at 40 °C)
Rated breaking capacity	3200 A conforming to IEC 60947-4-1
[lcw] rated short-time withstand current	3600 A 40 °C - 10 s 2400 A 40 °C - 30 s 1700 A 40 °C - 1 min 1200 A 40 °C - 3 min 1000 A 40 °C - 10 min
Associated fuse rating	400 A aM at <= 440 V 500 A gG at <= 440 V
Average impedance	0.26 mOhm - Ith 500 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C
Power dissipation per pole	65 W AC-1 42 W AC-3
Overvoltage category	III
power pole contact composition	3 NO

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Motor power kW	75 kW at 400 V AC 50/60 Hz (AC-4) 200 kW at 380400 V AC 50/60 Hz (AC-3) 220 kW at 415 V AC 50/60 Hz (AC-3) 250 kW at 440 V AC 50/60 Hz (AC-3) 257 kW at 500 V AC 50/60 Hz (AC-3) 280 kW at 660690 V AC 50/60 Hz (AC-3) 185 kW at 1000 V AC 50/60 Hz (AC-3) 110 kW at 220230 V AC 50/60 Hz (AC-3)
Control circuit voltage limits	Operational: 0.851.1 Uc 40400 Hz (at 55 °C) Drop-out: 0.30.5 Uc 40400 Hz (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	1075 VA, 40400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	15 VA, 40400 Hz cos phi 0.9 (at 20 °C)
Maximum operating rate	2400 cyc/h 55 °C
Operating time	4065 ms closing 100170 ms opening
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 30 x 5 mm Power circuit: lugs-ring terminals 2 cable(s) 150 mm² Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 35 N.m
mounting support	Plate
Heat dissipation	14 W
Standards	IEC 60947-4-1 EN 60947-4-1 IEC 60947-1 JIS C8201-4-1 EN 60947-1
Product certifications	UL RINA BV RMRoS DNV CCC ABS LROS (Lloyds register of shipping) CB UKCA
Compatibility code	LC1F
Control circuit type	AC at 40400 Hz
Environment	
IP degree of protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106
Protective treatment	тн
Ambient air temperature for operation	-555 °C
ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C
Height	206 mm
Width	213 mm

Depth	219 mm
Operating altitude	3000 m without derating
net weight	9.1 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	25.0 cm
Package 1 Width	24.0 cm
Package 1 Length	30.0 cm
Package 1 Weight	9.31 kg

Contractual warranty

Warranty 18 months

Sustainability Green Premium

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information