

Product data sheet

Specifications



contactor, TeSys F, 2P(2NO), AC-1, <=440V 1000A with coil LX1/LX9, 48...1000V AC 40/400Hz, LX4, 48...440V DC

LC1F6302

⚠ To be discontinued

⚠ To be discontinued on: 31 December 2023

Main

Range	TeSys
Product name	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Resistive load
Utilisation category	AC-1
Poles description	2P
Power pole contact composition	2 NO
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	1250 A (at <40 °C) at <= 440 V AC AC-1 1000 A (at <40 °C) at <= 440 V AC AC-1

Complementary

[Uc] control circuit voltage	48...1000 V AC 40...400 Hz with LX1/LX9 coil 48...440 V DC with LX4 coil
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1000 A (at 40 °C) 1250 A
Irms rated making capacity	6300 A AC conforming to IEC 60947-4-1
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	630 A aM at <= 440 V 1000 A gG at <= 440 V
Average impedance	0.12 mOhm - Ith 1000 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	120 W AC-1

Control circuit voltage limits	Operational: 0.85...1.1 Uc AC 40...400 Hz with LX1/LX9 coil Drop-out: 0.25...0.5 Uc AC 40...400 Hz with LX1/LX9 coil Operational: 0.85...1.1 Uc DC with LX4 coil Drop-out: 0.2...0.35 Uc DC with LX4 coil
Heat dissipation	20 W
Operating time	40...80 ms closing for with LX1/LX9 coil 100...200 ms opening for with LX1/LX9 coil 60...70 ms closing for with LX4 coil 40...50 ms opening for with LX4 coil
Mounting support	Plate
Standards	EN 60947-4-1 IEC 60947-4-1 IEC 60947-1 JIS C8201-4-1 EN 60947-1
Product certifications	ABS UL RINA DNV CSA CB LROS (Lloyds register of shipping) BV RMRoS UKCA
Connections - terminals	Power circuit: bar 2 cable(s) - busbar cross section: 60 x 5 mm Power circuit: bolted connection Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² solid without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ²
Tightening torque	Power circuit: 58 N.m Control circuit: 1.2 N.m
Mechanical durability	5 Mcycles
Inrush power in VA	1500...1730 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 1420...1920 VA (at 20 °C)with LX4 coil
Hold-in power consumption in VA	20...25 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 6.5...12.5 VA (at 20 °C)with LX4 coil
Maximum operating rate	1200 cyc/h 55 °C
Compatibility code	LC1F
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	TH
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C
Operating altitude	3000 m without derating
Mechanical robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor open: 6 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
Height	304 mm
Width	309 mm
Depth	255 mm
Net weight	15.5 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	30.48 cm
Package 1 Width	45.72 cm
Package 1 Length	38.1 cm
Package 1 Weight	13.998 kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	77 cm
Package 2 Width	80 cm
Package 2 Length	60 cm
Package 2 Weight	63.216 kg

Offer Sustainability



Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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
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

Contractual warranty

Warranty	18 months
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Recommended replacement(s)

LC1F6302 may be replaced by any of the following products:

1x		High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 630A, advanced version, 48...130V wide band AC/DC coil LC1G630EHEA
1x		High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 630A, advanced version, 200...500V wide band AC/DC coil LC1G630LSEA

1x



High power contactor, TeSys Giga 630, 4 pole (4NO), AC-1 <=440V 1050A, standard version, 48...130V wide band AC/DC coil

LC1G630EHEN

1x



High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 630A, standard version, 100...250V wide band AC/DC coil

LC1G630KUEN