

Product data sheet

Specifications



TeSys F contactor - 4P (4 NO) - AC-1 - <= 440 V 200 A - coil 220 V AC

LC1F1154M7

! To be discontinued on: 31 December 2023

! To be discontinued

Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	200 A (at <40 °C) at <= 440 V AC-1
[Uc] control circuit voltage	220 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	200 A (at 40 °C)
Rated breaking capacity	920 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1100 A 40 °C - 10 s 640 A 40 °C - 30 s 520 A 40 °C - 1 min 400 A 40 °C - 3 min 320 A 40 °C - 10 min
Associated fuse rating	125 A aM at <= 440 V 200 A gG at <= 440 V
Average impedance	0.37 mOhm - Ith 200 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	15 W AC-1
Compatibility code	LC1F
Power pole contact composition	4 NO
Control circuit voltage limits	Operational: 0.85...1.1 U _c 40...400 Hz (at 55 °C)

Drop-out: 0.35...0.55 Uc 40...400 Hz (at 55 °C)

Mechanical durability	10 Mcycles
Inrush power in VA	770 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	8.1 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Operating time	35 ms closing (at Uc) 130 ms opening (at Uc)
Maximum operating rate	2400 cyc/h 55 °C
Connections - terminals	Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 95 mm ² Power circuit: connector 1 cable(s) 95 mm ² 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 without 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 flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² solid without cable end Power circuit: bolted connection
Tightening torque	Power circuit: 10 N.m Control circuit: 1.2 N.m
Mounting support	Plate
Control circuit type	AC at 40...400 Hz
Heat dissipation	5.9...7.2 W
Standards	EN 60947-1 JIS C8201-4-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-1
Product certifications	RMRoS CB DNV LROS (Lloyds register of shipping) BV RINA UL ABS CCC UKCA

Environment

IP degree of protection	IP2x front face with shrouds conforming to IEC 60529 IP2x front face with shrouds conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-40...60 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	60...70 °C at Uc
Operating altitude	3000 m without derating
Height	162 mm
Width	200.5 mm
Depth	171 mm
Net weight	3.83 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	4.63 kg

Package 1 Height	20 cm
Package 1 width	22 cm
Package 1 Length	27 cm
Unit Type of Package 2	P06
Number of Units in Package 2	18
Package 2 Weight	91.84 kg
Package 2 Height	75 cm
Package 2 width	60 cm
Package 2 Length	80 cm

Offer Sustainability

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

LC1F1154M7 may be replaced by any of the following products:

1x



High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 250A, advanced version, 200...500V wide band AC/DC coil
LC1G1154LSEA

1x



High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 250A, standard version, 100...250V wide band AC/DC coil
LC1G1154KUEN