Product datasheet

Specifications



TeSys F contactor - 4P(4 NO)-AC-1 <= 440V 200A with coil LX9 - 24...575V AC 40/400Hz, LX4 -24...460V DC, LXE - 100...250V AC 50/60Hz or 100...380V DC

LC1F1154

To be discontinued on: 31 December 2023

viain

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 <= 460 V DC
[le] rated operational current	200 A (at <40 °C) at <= 440 V AC-1

[Uc] control circuit voltage	24575 V AC 40400 Hz with LX9 coil
[OC] Control Circuit Voltage	24460 V DC with LX4 coil
	100250 V AC 50/60 Hz with LXE coil
	100380 V DC with LXE coil
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air	200 A (at 40 °C)
thermal current	
Irms rated making capacity	1150 A conforming to IEC 60947-4-1
Rated breaking capacity	920 A conforming to IEC 60947-4-1
[lcw] rated short-time withstand	1100 A 40 °C - 10 s
current	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	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

Operational: 0.851.1 Uc AC 40400 Hz with LX9 coil Drop-out: 0.20.55 Uc AC 40400 Hz with LX9 coil Operational: 0.851.1 Uc DC with LX4 coil Drop-out: 0.150.2 Uc DC with LX4 coil Operational: 85275 V AC 50/60 Hz with LXE coil Drop-out: 060 V AC 50/60 Hz with LXE coil Operational: 85418 V DC with LXE coil Operational: 85418 V DC with LXE coil Drop-out: 045 V DC with LXE coil 5.97.2 W 2.25.5 W 130 ms opening for with LX9 coil 3040 ms closing for with LX4 coil 4080 ms closing for with LXE coil 654 ms opening for with LXE coil
2.25.5 W 130 ms opening for with LX9 coil 3040 ms closing for with LX4 coil 3050 ms opening for with LX4 coil 4080 ms closing for with LXE coil
3040 ms closing for with LX4 coil 3050 ms opening for with LX4 coil 4080 ms closing for with LXE coil
Plate
EN 60947-4-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-1
CB UL RINA DNV LROS (Lloyds register of shipping) RMRoS CSA ABS BV UKCA
Power circuit: lugs-ring terminals 1 cable(s) 95 mm² Power circuit: connector 1 cable(s) 95 mm² Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm Power circuit: bolted connection Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm²solid without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² Control circuit: screw clamp terminals 1 cable(s) 14 mm² Control circuit: screw clamp terminals 2 cable(s) 14 mm² Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm²flexible without cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.252.5 mm²flexible with cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm²flexible without cable end
Power circuit: 10 N.m Control circuit: 1.2 N.m Control circuit: 0.6 N.m
590855 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX9 coil 543665 VA (at 20 °C)with LX4 coil 280310 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil 270320 VA (at 20 °C)with LXE coil
6.68.1 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX9 coil 3.944.83 VA (at 20 °C)with LX4 coil 4.57.0 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil 2.54.0 VA (at 20 °C)with LXE coil
2400 cyc/h 55 °C
LC1F
IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106
TH
-4060 °C
-6080 °C
6070 °C at Uc
3000 m without derating

Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 6 Gn, 5300 Hz Shocks contactor open: 9 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)	
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 Height	21.500 cm
Package 1 Width	20.000 cm
Package 1 Length	26.500 cm
Package 1 Weight	4.208 kg
Unit Type of Package 2	P06
Number of Units in Package 2	18
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	84.244 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

Contractual warranty

Warranty 18 months

Recommended replacement(s)

LC1F1154 is replaced by the following group of products:





High power contactor, TeSys Giga, 4 pole (4NO), AC-1 <=440V 250A, standard version, 48...130V wide band AC/DC coil

LC1G1154EHEN

1x



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

LC1G1154KUEN

1x



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

LC1G1154LSEA

Or LC1F1154 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, 48...130V wide band AC/DC coil

LC1G1154EHEN

1x



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

LC1G1154KUEN