



# TeSys F contactor - 4P (4 NO) - AC-1 - <= 440 V 315 A - coil 120 V AC

LC1F2254G7

Discontinued on: 20 May 2021

(!) 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	<= 460 V DC <= 690 V AC 50/60 Hz
[Uc] control circuit voltage	120 V AC 40400 Hz
[le] rated operational current	315 A (at <40 °C) at <= 440 V AC-1

## Complementary

Complementary	
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	315 A (at 40 °C)
Rated breaking capacity	1800 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1800 A 40 °C - 10 s 1000 A 40 °C - 30 s 850 A 40 °C - 1 min 560 A 40 °C - 3 min 440 A 40 °C - 10 min
Associated fuse rating	315 A gG at <= 440 V 250 A aM at <= 440 V
Average impedance	0.32 mOhm - Ith 315 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	32 W AC-1
Overvoltage category	III
power pole contact composition	4 NO
Control circuit voltage limits	Operational: 0.851.1 Uc 40400 Hz (at 55 °C) Drop-out: 0.20.55 Uc 40400 Hz (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	1070 VA, 40400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	9.9 VA, 40400 Hz cos phi 0.9 (at 20 °C)

Maximum operating rate	2400 cyc/h 55 °C
Operating time	35 ms closing (at Uc) 130 ms opening (at Uc)
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: 32 x 4 mm Power circuit: lugs-ring terminals 1 cable(s) 185 mm² Power circuit: connector 1 cable(s) 185 mm² Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 35 N.m
mounting support	Plate
Heat dissipation	89.8 W
Standards	EN 60947-1 IEC 60947-1 JIS C8201-4-1 IEC 60947-4-1 EN 60947-4-1
Product certifications	UL CB ABS CCC DNV LROS (Lloyds register of shipping) RMRoS BV RINA 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	TH
ambient air temperature for operation	-555 °C
ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C
Height	197 mm
Width	208.5 mm
Depth	181 mm
Operating altitude	3000 m without derating
net weight	5.55 kg

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	21.5 cm
Package 1 Width	23.5 cm

Package 1 Length	26.5 cm	
Package 1 Weight	6.371 kg	

## **Contractual warranty**

Warranty 18 months



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## Well-being performance

<b>Ø</b>	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	

## **Certifications & Standards**

Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration  Product out of China RoHS scope. Substance declaration for your information
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

11 Oct 2024