

Product Datasheet

Characteristic

LC1F115G7

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 115 A - coil 120 V AC



Main

range	TeSys
product name	TeSys F
product or component type	Contactor
device short name	LC1F
contactor application	Resistive load Motor control
utilisation category	AC-3 AC-1 AC-4
poles description	3P
pole contact composition	3 NO
[Ue] rated operational voltage	<= 690 V 50/60 Hz AC
[Ie] rated operational current	AC-1 <= 440 V 200 A 104 °F (40 °C) 115 A 131 °F (55 °C) <= 440 V AC-3
motor power kW	55 kW 380...400 V AC 50/60 Hz AC-3) 59 kW 415 V AC 50/60 Hz AC-3) 59 kW 440 V AC 50/60 Hz AC-3) 75 kW 500 V AC 50/60 Hz AC-3) 80 kW 660...690 V AC 50/60 Hz AC-3) 30 kW 220...230 V AC 50/60 Hz AC-3) 18.5 kW 400 V AC 50/60 Hz AC-4)
[Uc] control circuit voltage	120 V AC 40...400 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
overvoltage category	III
[Ith] conventional free air thermal current	104 °F (40 °C) 200 A
rated breaking capacity	920 A IEC 60947-4-1
[Icw] rated short-time withstand current	1100 A 10 s 104 °F (40 °C) 640 A 30 s 104 °F (40 °C) 520 A 1 min 104 °F (40 °C) 400 A 3 min 104 °F (40 °C) 320 A 10 min 104 °F (40 °C)
associated fuse rating	AM 125 A <= 440 V GG 200 A <= 440 V
average impedance	200 A 50 Hz 0.37 mOhm

[Ui] rated insulation voltage	1000 V IEC 60947-4-1 1500 V VDE 0110 group C
power dissipation per pole	AC-1 15 W 5 W AC-3
mounting support	Plate
standards	JIS C8201-4-1 IEC 60947-1 EN 60947-4-1 IEC 60947-4-1 EN 60947-1
product certifications	CB BV RINA LROS (Lloyds register of shipping) UL RMRoS DNV CCC ABS
connections - terminals	Power circuit Bar 2 20 x 3 mm Power circuit Lugs-ring terminals 0.15 in ² (95 mm ²) 1 Power circuit Connector 0.15 in ² (95 mm ²) 1 Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)flexible without cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)flexible with cable end Control circuit Screw clamp terminals 0.00...0.00 in ² (1...2.5 mm ²) 2 Flexible With cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)solid without cable end Power circuit bolted connection
tightening torque	Power circuit 88.51 lbf.in (10 N.m) Control circuit 10.62 lbf.in (1.2 N.m)
control circuit voltage limits	0.85...1.1 Uc Operational 131 °F (55 °C) 40...400 Hz 0.35...0.55 Uc Drop-out 131 °F (55 °C) 40...400 Hz
inrush power in VA	68 °F (20 °C) 770 VA 40...400 Hz 0.9
hold-in power consumption in VA	68 °F (20 °C) 8.1 VA 40...400 Hz 0.9
heat dissipation	5.9...7.2 W
operating time	Closing 35 ms At Uc Opening 130 ms At Uc
mechanical durability	10 Mcycles
maximum operating rate	2400 cyc/h 131 °F (55 °C)
compatibility code	LC1F

Environment

IP degree of protection	IP2x With shrouds Front face IEC 60529 IP2x With shrouds Front face VDE 0106
protective treatment	TH
ambient air temperature for operation	-40...140 °F (-40...60 °C)
ambient air temperature for storage	-76...176 °F (-60...80 °C)
permissible ambient air temperature around the device	140...158 °F (60...70 °C) At Uc
operating altitude	Without derating 9842.52 ft (3000 m)
height	6.38 in (162 mm)
width	6.43 in (163.3 mm)
depth	6.73 in (171 mm)
Net Weight	7.56 lb(US) (3.43 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
--------------------------	-----------------------

REACH Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	ENVPEP111201EN
Circularity Profile	ENVEOLI111214EN_V1
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.