

Product data sheet

Specifications



Contactor, TeSys F, 3P(3NO), AC-3 <=440V 115A, 415V AC coil

LC1F115N7

⚠ Discontinued on: Jun 15, 2023

Product availability: Stock - Normally stocked in distribution facility

⚠ Discontinued

Main

Range	TeSys
Range of Product	TeSys F
Product or Component Type	Contactor
Device short name	LC1F
Contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-4 AC-3
Poles description	3P
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	415 V AC 40...400 Hz
[Ie] rated operational current	200 A (at <104 °F (40 °C)) at <= 440 V AC-1 115 A (at <131 °F (55 °C)) at <= 440 V AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	200 A (at 104 °F (40 °C))
Rated breaking capacity	920 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1100 A 104 °F (40 °C) - 10 s 640 A 104 °F (40 °C) - 30 s 520 A 104 °F (40 °C) - 1 min 400 A 104 °F (40 °C) - 3 min 320 A 104 °F (40 °C) - 10 min
Associated fuse rating	125 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 IEC 60947-4-1 1500 V VDE 0110 group C
Power dissipation per pole	15 W AC-1 5 W AC-3
Overvoltage category	III
power pole contact composition	3 NO

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Motor power kW	55 kW at 380...400 V AC 50/60 Hz (AC-3) 59 kW at 415 V AC 50/60 Hz (AC-3) 59 kW at 440 V AC 50/60 Hz (AC-3) 75 kW at 500 V AC 50/60 Hz (AC-3) 80 kW at 660...690 V AC 50/60 Hz (AC-3) 30 kW at 220...230 V AC 50/60 Hz (AC-3) 18.5 kW at 400 V AC 50/60 Hz (AC-4)
Control circuit voltage limits	Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C)) Drop-out 0.2...0.55 Uc 40...400 Hz 131 °F (55 °C))
Mechanical durability	10 Mcycles
Inrush power in VA	770 VA, 40...400 Hz 0.9 68 °F (20 °C))
Hold-in power consumption in VA	8.1 VA, 40...400 Hz 0.9 68 °F (20 °C))
Maximum operating rate	2400 cyc/h 131 °F (55 °C)
Operating time	35 ms closing at Uc) 130 ms opening at Uc)
Connections - terminals	Power circuit bar 2 20 x 3 mm Power circuit lugs-ring terminals 1 0.1 in² (95 mm²) Power circuit connector 1 0.1 in² (95 mm²) Control circuit screw clamp terminals 1 0.002...0.006 in² (1...4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.002...0.006 in² (1...4 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.002...0.006 in² (1...4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in² (1...2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.002...0.006 in² (1...4 mm²)solid without cable end Control circuit screw clamp terminals 2 0.002...0.006 in² (1...4 mm²)solid without cable end Power circuit bolted connection
Tightening torque	Power circuit 88.5 lbf.in (10 N.m) Control circuit 10.6 lbf.in (1.2 N.m)
Mounting Support	Plate
Heat dissipation	5.9...7.2 W
Standards	EN 60947-4-1 IEC 60947-4-1 JIS C8201-4-1 IEC 60947-1 EN 60947-1
Product Certifications	RMRoS LROS (Lloyds register of shipping) RINA UL CB DNV BV CCC ABS UKCA
Compatibility code	LC1F
Control circuit type	AC 40...400 Hz

Environment

IP degree of protection	IP2X front face with shrouds IEC 60529 IP2X front face with shrouds 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
Height	6.4 in (162 mm)
Width	6.4 in (163.3 mm)
Depth	6.7 in (171 mm)
Operating altitude	9842.52 ft (3000 m) without derating
Net Weight	7.56 lb(US) (3.43 kg)

Ordering and shipping details

Category	US10I1222336
Discount Schedule	0I12
GTIN	3389110350883
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	7.283 in (18.500 cm)
Package 1 Width	7.677 in (19.500 cm)
Package 1 Length	8.858 in (22.500 cm)
Package weight(Lbs)	8.779 lb(US) (3.982 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	4
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	15.748 in (40.000 cm)
Package 2 Length	23.622 in (60.000 cm)
Package 2 Weight	36.520 lb(US) (16.565 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	16
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	163.715 lb(US) (74.260 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	471 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	71 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.7 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	393 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	6 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	B2d4179a-eb65-40a3-a1ef-d9a33060486f
REACH Regulation	REACH Declaration
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

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	91
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.