Product data sheet

Specifications

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 115 A - coil 240 V AC

LC1F115U5

Discontinued on: Jul 12, 2021

Discontinued

Main

Range	TeSys
Range Of Product	TeSys F
Product Or Component Type	Contactor
Device Short Name	LC1F
Contactor Application	Motor control Resistive load
Utilisation Category	AC-4 AC-1 AC-3
Poles Description	3P
[Ue] Rated Operational Voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[Uc] Control Circuit Voltage	240 V AC 50 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 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 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 50/60 Hz 131 °F (55 °C)) Drop-out 0.35...0.55 Uc 50/60 Hz 131 °F (55 °C))
Mechanical Durability	10 Mcycles
Inrush Power In Va	550 VA, 50 Hz 0.3 68 °F (20 °C))
Hold-In Power Consumption In Va	45 VA, 50 Hz 0.3 68 °F (20 °C))
Maximum Operating Rate	2400 cyc/h 131 °F (55 °C)
Operating Time	23...35 ms closing 5...15 ms opening
Connections - Terminals	Power circuit bar 2 20 x 3 mm Power circuit lugs-ring terminals 1 0.15 in² (95 mm²) Power circuit connector 1 0.15 in² (95 mm²) Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.00…0.01 in² (1…4 mm²)solid without cable end Control circuit screw clamp terminals 2 0.00…0.01 in² (1…4 mm²)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)
Mounting Support	Plate
Heat Dissipation	12…16 W
Standards	JIS C8201-4-1 EN 60947-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-1
Product Certifications	BV UL LROS (Lloyds register of shipping) DNV CB RMRoS RINA ABS CCC
Compatibility Code	LC1F
Control Circuit Type	AC 50 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	6.38 in (162 mm)
Width	6.43 in (163.3 mm)
Depth	6.73 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	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
Gtin	3389110226607
Returnability	No
Country Of Origin	CZ

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty	18 months

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency

RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes

Certifications & Standards

Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
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
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