Product data sheet





TeSys F contactor - 3P (3 NO) -AC-3 - <= 440 V 630 A - coil 440 V AC

LC1F630R7

! Discontinued on: 31/12/2023

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-1 AC-3 AC-4	
Poles Description	3P	
[Ue] Rated Operational Voltage	<= 1000 V AC 50/60 Hz <= 460 V DC	
[Uc] Control Circuit Voltage	440 V AC 40400 Hz	
[le] Rated Operational Current	1000 A (at <40 °C) at <= 440 V AC AC-1 630 A (at <55 °C) at <= 440 V AC AC-3	

Complementary

[Uimp] Rated Impulse Withstand Voltage	8 kV
[Ith] Conventional Free Air Thermal Current	1000 A (at 40 °C) 1250 A
Rated Breaking Capacity	5040 A conforming to IEC 60947-4-1
[Icw] Rated Short-Time Withstand Current	5050 A 40 °C - 10 s 4400 A 40 °C - 30 s 3400 A 40 °C - 1 min 2200 A 40 °C - 3 min 1600 A 40 °C - 10 min
Associated Fuse Rating	1000 A gG at <= 440 V 630 A aM at <= 440 V
Average Impedance	0.12 mOhm - Ith 1000 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	120 W AC-1 48 W AC-3
Overvoltage Category	III
Power Pole Contact Composition	3 NO

Motor Power Kw	335 kW at 380400 V AC 50/60 Hz (AC-3)
	375 kW at 415 V AC 50/60 Hz (AC-3)
	400 kW at 440 V AC 50/60 Hz (AC-3)
	400 kW at 500 V AC 50/60 Hz (AC-3)
	450 kW at 660690 V AC 50/60 Hz (AC-3)
	450 kW at 1000 V AC 50/60 Hz (AC-3)
	200 kW at 220230 V AC 50/60 Hz (AC-3)
	100 kW at 400 V AC 50/60 Hz (AC-4)
Control Circuit Voltage Limits	Operational: 0.851.1 Uc 40400 Hz (at 55 °C)
	Drop-out: 0.250.5 Uc 40400 Hz (at 55 °C)
Mechanical Durability	5 Mcycles
Inrush Power In Va	1650 VA, 40400 Hz cos phi 0.9 (at 20 °C)
Hold-In Power Consumption In Va	22 VA, 40400 Hz cos phi 0.9 (at 20 °C)
Maximum Operating Rate	1200 cyc/h 55 °C
Operating Time	4080 ms closing
	100200 ms opening
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: 60 x 5 mm
	Power circuit: bolted connection
Tightening Torque	Control circuit: 1.2 N.m
	Power circuit: 58 N.m
Mounting Support	Plate
Heat Dissipation	20 W
Standards	EN 60947-4-1
	IEC 60947-4-1
	IEC 60947-1
	JIS C8201-4-1
	EN 60947-1
Product Certifications	ABS
	BV
	LROS (Lloyds register of shipping)
	RMRoS
	CCC
	DNV
	UL
	RINA
	CB
	UKCA
Compatibility Code	LC1F
Control Circuit Type	AC at 40400 Hz
Environment	
Environment Degree Of Protection	IP20 front face with shrouds conforming to IEC 60529

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	304 mm	
Width	309 mm	
Depth	255 mm	

Operating Altitude	3000 m without derating
Net Weight	18.6 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	29.0 cm
Package 1 Width	35.0 cm
Package 1 Length	36.0 cm
Package 1 Weight	18.4 kg

Contractual warranty

Warranty 18 months

Sustainability Green Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
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