



(!) Discontinued

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 275 A - coil 380 V AC

LC1F185Q5

! Discontinued on: 31-Dec-2020

! End-of-service on: 27-Apr-2021

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-3 AC-4 AC-1	
poles description	3P	
[Ue] rated operational voltage	<= 460 V DC <= 690 V AC 50/60 Hz	
[Uc] control circuit voltage	ol circuit voltage 380 V AC 50 Hz	
[le] rated operational current	275 A (at <40 °C) at <= 440 V AC-1 185 A (at <55 °C) at <= 440 V AC-3	

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	275 A (at 40 °C)
Rated breaking capacity	1480 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1500 A 40 °C - 10 s 920 A 40 °C - 30 s 740 A 40 °C - 1 min 500 A 40 °C - 3 min
Associated fuse rating	400 A 40 °C - 10 min 200 A aM at <= 440 V
	315 A gG at <= 440 V
Average impedance	0.33 mOhm - Ith 275 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	12 W AC-3 25 W AC-1
Overvoltage category	III
power pole contact composition	3 NO

Motor power kW	90 kW at 380400 V AC 50/60 Hz (AC-3) 100 kW at 415 V AC 50/60 Hz (AC-3) 100 kW at 440 V AC 50/60 Hz (AC-3) 110 kW at 500 V AC 50/60 Hz (AC-3) 110 kW at 660690 V AC 50/60 Hz (AC-3) 55 kW at 220230 V AC 50/60 Hz (AC-3) 33 kW at 400 V AC 50/60 Hz (AC-4)
Control circuit voltage limits	Operational: 0.851.1 Uc 50/60 Hz (at 55 °C) Drop-out: 0.350.55 Uc 50/60 Hz (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	805 VA, 50 Hz cos phi 0.3 (at 20 °C)
Hold-in power consumption in VA	55 VA, 50 Hz cos phi 0.3 (at 20 °C)
Maximum operating rate	2400 cyc/h 55 °C
Operating time	2035 ms closing 715 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: 25 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 150 mm² Power circuit: connector 1 cable(s) 150 mm² Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 18 N.m
Mounting support	Plate
Heat dissipation	1824 W
Standards	EN 60947-1 JIS C8201-4-1 IEC 60947-1 EN 60947-4-1 IEC 60947-4-1
Product certifications	UL LROS (Lloyds register of shipping) RMRoS CB CCC BV ABS RINA DNV
Compatibility code	LC1F
Control circuit type	AC at 50 Hz
Environment	
IP degree of protection	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106
Protective treatment	тн
Ambient air temperature for operation	-555 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C
Height	174 mm

168.5 mm

181 mm

Width

Depth

Operating altitude	3000 m without derating
Net weight	4.65 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	Í.
Package 1 Height	21.5 cm
Package 1 Width	21 cm
Package 1 Length	24 cm
Package 1 Weight	5.105 kg

Contractual warranty

Warranty 18 months



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RoHS/REACh

Well-being performance

⊘	Mercury Free	
②	Rohs Exemption Information	Yes
②	Pvc Free	

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
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins