



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-4 AC-1 AC-3
Poles description	3P
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz ≤ 460 V DC
[Uc] control circuit voltage	400 V AC 40...400 Hz
[Ie] rated operational current	500 A (at <40 °C) at ≤ 440 V AC AC-1 400 A (at <55 °C) at ≤ 440 V AC AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	500 A (at 40 °C)
Rated breaking capacity	3200 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	3600 A 40 °C - 10 s 2400 A 40 °C - 30 s 1700 A 40 °C - 1 min 1200 A 40 °C - 3 min 1000 A 40 °C - 10 min
Associated fuse rating	400 A aM at ≤ 440 V 500 A gG at ≤ 440 V
Average impedance	0.26 MOhm - Ith 500 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	65 W AC-1 42 W AC-3
Overvoltage category	III
Pole contact composition	3 NO

Motor power kW	75 KW at 400 V AC 50/60 Hz (AC-4) 200 KW at 380...400 V AC 50/60 Hz (AC-3) 220 KW at 415 V AC 50/60 Hz (AC-3) 250 KW at 440 V AC 50/60 Hz (AC-3) 257 KW at 500 V AC 50/60 Hz (AC-3) 280 KW at 660...690 V AC 50/60 Hz (AC-3) 185 KW at 1000 V AC 50/60 Hz (AC-3) 110 KW at 220...230 V AC 50/60 Hz (AC-3)
Control circuit voltage limits	Operational: 0.85...1.1 Uc 40...400 Hz (at 55 °C) Drop-out: 0.3...0.5 Uc 40...400 Hz (at 55 °C)
Mechanical durability	10 Mcycles
Inrush power in VA	1075 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	15 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Maximum operating rate	2400 Cyc/H 55 °C
Operating time	40...65 ms closing 100...170 ms opening
Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 30 x 5 mm Power circuit: lugs-ring terminals 2 cable(s) 150 mm ² Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 35 N.m
Mounting support	Plate
Heat dissipation	14 W
Power range	110...220 KW at 480...500 V 3 phases 110...220 KW at 380...440 V 3 phases 110...220 KW at 200...240 V 3 phases 250...500 KW at 480...500 V 3 phases
Motor starter type	Direct on-line contactor
Contactor coil voltage	400 V AC standard
Standards	JIS C8201-4-1 IEC 60947-4-1 EN 60947-4-1 IEC 60947-1 EN 60947-1
Product certifications	RMRoS ABS UL CB RINA LROS (Lloyds register of shipping) DNV BV CSA UKCA
Compatibility code	LC1F
Control circuit type	AC at 40...400 Hz

Environment

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	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C
Height	206 Mm
Width	213 Mm
Depth	219 Mm

Operating altitude	3000 m without derating
Net weight	9.1 Kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	25.0 Cm
Package 1 Width	24.0 Cm
Package 1 Length	29.5 Cm
Package 1 Weight	9.4 Kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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Product Life Status : **End of commerc. announced**

LC1F400V7 may be replaced by any of the following products:



LC1G400LSEA

High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 400A, advanced version, 200...500V wide band AC/

Qty 1

Substitution date: |