



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Motor control Resistive load
Utilisation category	AC-4 AC-3 AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	\leq 460 V DC \leq 690 V AC 50/60 Hz
[Ie] rated operational current	275 A (at \leq 40 °C) at \leq 440 V AC-1 185 A (at \leq 55 °C) at \leq 440 V AC-3
Motor power kW	90 kW at 380...400 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 660...690 V AC 50/60 Hz (AC-3) 55 kW at 220...230 V AC 50/60 Hz (AC-3) 33 kW at 400 V AC 50/60 Hz (AC-4)
[Uc] control circuit voltage	120 V AC 60 Hz

Complementary

[Uimp] rated impulse withstand voltage	8 kV
Overtension category	III
[Ith] conventional free air thermal current	275 A (at 40 °C)
Rated breaking capacity	1480 A conforming to IEC 60947-4-1

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

[I _{cw}] 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 400 A 40 °C - 10 min
Associated fuse rating	200 A aM at ≤ 440 V 315 A gG at ≤ 440 V
Average impedance	0.33 mOhm - I _{th} 275 A 50 Hz
[U _i] 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
Mounting support	Plate
Standards	EN 60947-1 IEC 60947-1 JIS C8201-4-1 IEC 60947-4-1 EN 60947-4-1
Product certifications	UL BV CCC DNV CB LROS (Lloyds register of shipping) RINA ABS RMRoS
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: 25 x 3 mm Power circuit: lugs-ring terminals 1 cable(s) 150 mm ² Power circuit: connector 1 cable(s) 150 mm ² Power circuit bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 18 N.m
Control circuit voltage limits	Operational 0.85...1.1 U _c 50/60 Hz 131 °F (55 °C) Drop-out 0.35...0.55 U _c 50/60 Hz 131 °F (55 °C)
Inrush power in VA	970 VA 60 Hz cos phi 0.3 (at 20 °C)
Hold-in power consumption in VA	66 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	18...24 W
Operating time	20...35 ms closing 7...15 ms opening
Mechanical durability	10 Mcycles
Maximum operating rate	2400 cyc/h 55 °C
Compatibility code	LC1F

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	TH
Ambient air temperature for operation	23...131 °F (-5...55 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...70 °C
Operating altitude	3000 m without derating
Height	6.85 in (174 mm)
Width	6.63 in (168.5 mm)
Depth	7.13 in (181 mm)

Net weight	10.25 lb(US) (4.65 kg)
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Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	11.51 lb(US) (5.22 kg)
Package 1 Height	8.66 in (22 cm)
Package 1 width	7.87 in (20 cm)
Package 1 Length	9.45 in (24 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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
PVC free	Yes

Contractual warranty

Warranty	18 months
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LC1F185G6 is replaced by:



Contactors LC1F185G7

TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 185 A - coil 120 V AC

Qty 1

Reason for Substitution: End of life | Substitution date: 11 August 2020 | Global group 1