

LC1F630

TeSys F contactor - 3P(3 NO) - AC-3 - ≤ 440 V
630 A - without coil



Main

Range of product	TeSys F
Range	TeSys
Product or component type	Contactor
Product name	TeSys F
Device short name	LC1F
Device application	Control
Contactor application	Resistive load Motor control

Complementary

Utilisation category	AC-1 AC-3
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz ≤ 460 V DC
[Ie] rated operational current	1000 A (≤ 40 °C) at ≤ 440 V AC AC-1 630 A (≤ 55 °C) at ≤ 440 V AC AC-3
Motor power kW	200 kW at 220...240 V AC 50/60 Hz 400 kW at 440 V AC 50/60 Hz 450 kW at 1000 V AC 50/60 Hz 375 kW at 415 V AC 50/60 Hz 450 kW at 660...690 V AC 50/60 Hz 400 kW at 500 V AC 50/60 Hz 335 kW at 380...400 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1000 A at ≤ 40 °C 1250 A
Irms rated making capacity	6300 A AC conforming to IEC 60947-4-1
Rated breaking capacity	5040 A conforming to IEC 60947-4-1

[I _{lcw}] rated short-time withstand current	3400 A ≤ 40 °C 1 min 1600 A ≤ 40 °C 10 min 5050 A ≤ 40 °C 10 s 2200 A ≤ 40 °C 3 min 4400 A ≤ 40 °C 30 s
Associated fuse rating	630 A aM at ≤ 440 V 1000 A gG at ≤ 440 V
Average impedance	0.12 mOhm at 50 Hz - I _{th} 1000 A
[U _i] rated insulation voltage	1500 V conforming to VDE 0110 group C 1000 V conforming to IEC 60947-4-1
Power dissipation per pole	48 W AC-3 120 W AC-1
Connections - terminals	Power circuit : bar 2 x (60 x 5 mm)
Tightening torque	Power circuit : 58 N.m
Mounting support	Plate
Mechanical robustness	Shocks contactor open 6 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 4 Gn, 5...300 Hz Vibrations contactor open 2 Gn, 5...300 Hz
Height	255 mm
Width	309 mm
Depth	304 mm
Product weight	15.5 kg
Compatibility code	LC1F

Environment

Standards	IEC 60947-4-1 IEC 60947-1 EN 60947-1 EN 60947-4-1 JEM 1038
Product certifications	DNV CSA CCC GL BV RINA RMRoS LROS UL
IP degree of protection	IP20 front face with shrouds (ordered separately) conforming to VDE 0106 IP20 front face with shrouds (ordered separately) conforming to IEC 60529
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
Operating altitude	3000 m without derating in temperature

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0843 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available End of life manual
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months
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