

## LC1F630GD

TeSys F contactor - 3P (3 NO) - AC-3 -  $\leq 440$  V  
630 A - coil 125 V DC



### 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-1 AC-3
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	$\leq 1000$ V AC 50/60 Hz $\leq 460$ V DC
[Ie] rated operational current	1000 A ( $\leq 40$ °C) at $\leq 440$ V AC AC-1 630 A ( $\leq 55$ °C) at $\leq 440$ V AC AC-3
Motor power kW	200 kW at 220...230 V AC 50/60 Hz 335 kW at 380...400 V AC 50/60 Hz 375 kW at 415 V AC 50/60 Hz 400 kW at 440 V AC 50/60 Hz 400 kW at 500 V AC 50/60 Hz 450 kW at 1000 V AC 50/60 Hz 450 kW at 660...690 V AC 50/60 Hz
Control circuit type	DC standard
Control circuit voltage	125 V DC
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	1000 A at $\leq 40$ °C 1250 A
Irms rated making capacity	6300 A AC conforming to IEC 60947-4-1
Rated breaking capacity	5040 kA conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	5050 A $\leq 40$ °C 10 s 4400 A $\leq 40$ °C 30 s 3400 A $\leq 40$ °C 1 min 2200 A $\leq 40$ °C 3 min 1600 A $\leq 40$ °C 10 min
Associated fuse rating	630 A aM at $\leq 440$ V 1000 A gG at $\leq 440$ V
Average impedance	0.12 mOhm at 50 Hz - Ith 1000 A
[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
Mounting support	Plate
Standards	EN 60947-1 EN 60947-4-1 IEC 60947-1 IEC 60947-4-1 JEM 1038
Product certifications	BV CCC CSA DNV GL RINA RMRoS UL LROS

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : bar 2 x ( 60 x 5 mm)
Tightening torque	Control circuit : 1.2 N.m Power circuit : 58 N.m
Operating time	40...50 ms opening 60...70 ms closing
Mechanical durability	5 Mcycles
Operating rate	1200 cyc/h at <= 55 °C

## Complementary

Control circuit voltage limits	0.85...1.1 Uc at 55 °C operational 0.2...0.35 Uc at 55 °C drop-out
Inrush power in W	1600 W at 20 °C
Hold-in power consumption in W	9 W at 20 °C
Heat dissipation	9 W

## Environment

IP degree of protection	IP20 front face with shrouds (ordered separately) conforming to IEC 60529 IP20 front face with shrouds (ordered separately) 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
Operating altitude	3000 m without derating in temperature
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 9 Gn for 11 ms
Height	255 mm
Width	309 mm
Depth	304 mm
Product weight	18.6 kg

## Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 0843 - Schneider Electric declaration of conformity
Product environmental profile	Available
Product end of life instructions	Available