

# Product datasheet

Specifications



## TeSys F contactor - 3P (3 NO) - AC-3 - <= 440 V 630 A - coil 380 V AC

Local distributor code: 402885292 LC1F630Q7

**!** To be discontinued on: 31 December 2022

**!** To be discontinued

EAN Code : 3389110227178

### Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Motor control Resistive load
Utilisation category	AC-3 AC-1 AC-4
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	380 V AC 40...400 Hz
[Ie] rated operational current	1000 A (at <40 °C) at <= 440 V AC AC-1 630 A (at <55 °C) at <= 440 V AC AC-3

### Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	1000 A (at 40 °C) 1250 A
Rated breaking capacity	5040 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	5050 A 40 °C - 10 s 4400 A 40 °C - 30 s 3400 A 40 °C - 1 min 2200 A 40 °C - 3 min 1600 A 40 °C - 10 min
Associated fuse rating	1000 A gG at <= 440 V 630 A aM at <= 440 V
Average impedance	0.12 mOhm - Ith 1000 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	120 W AC-1 48 W AC-3
Overvoltage category	III
Power pole contact composition	3 NO

<b>Motor power kW</b>	335 kW at 380...400 V AC 50/60 Hz (AC-3) 375 kW at 415 V AC 50/60 Hz (AC-3) 400 kW at 440 V AC 50/60 Hz (AC-3) 400 kW at 500 V AC 50/60 Hz (AC-3) 450 kW at 660...690 V AC 50/60 Hz (AC-3) 450 kW at 1000 V AC 50/60 Hz (AC-3) 200 kW at 220...230 V AC 50/60 Hz (AC-3) 100 kW at 400 V AC 50/60 Hz (AC-4)
<b>Control circuit voltage limits</b>	Operational: 0.85...1.1 Uc 40...400 Hz (at 55 °C) Drop-out: 0.25...0.5 Uc 40...400 Hz (at 55 °C)
<b>Mechanical durability</b>	5 Mcycles
<b>Inrush power in VA</b>	1650 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
<b>Hold-in power consumption in VA</b>	22 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
<b>Maximum operating rate</b>	1200 cyc/h 55 °C
<b>Operating time</b>	40...80 ms closing 100...200 ms opening
<b>Connections - terminals</b>	Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm <sup>2</sup> solid without cable end Power circuit: bar 2 cable(s) - busbar cross section: 60 x 5 mm Power circuit: bolted connection
<b>Tightening torque</b>	Control circuit: 1.2 N.m Power circuit: 58 N.m
<b>Mounting support</b>	Plate
<b>Heat dissipation</b>	20 W
<b>Standards</b>	EN 60947-1 JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1
<b>Product certifications</b>	UL CCC RINA CB DNV BV ABS RMRoS LROS (Lloyds register of shipping) UKCA
<b>Compatibility code</b>	LC1F
<b>Control circuit type</b>	AC at 40...400 Hz

## Environment

<b>IP degree of protection</b>	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106
<b>Protective treatment</b>	TH
<b>Ambient air temperature for operation</b>	-5...55 °C
<b>Ambient air temperature for storage</b>	-60...80 °C
<b>Permissible ambient air temperature around the device</b>	-40...70 °C
<b>Height</b>	304 mm
<b>Width</b>	309 mm
<b>Depth</b>	255 mm
<b>Operating altitude</b>	3000 m without derating
<b>Net weight</b>	18.6 kg

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	33.0 cm
Package 1 Width	33.5 cm
Package 1 Length	44.0 cm
Package 1 Weight	18.672 kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	77.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	83.188 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
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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