

# Product datasheet

Specifications



## TeSys F contactor - 3P (3 NO) - AC-1 - $\leq 440$ V 1700 A - coil 110 V AC

LC1F1700F7

EAN Code : 3389118372832

### Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contacteur
Device short name	LC1F
Contacteur application	Resistive load
Utilisation category	AC-1
Poles description	3P
[Ue] rated operational voltage	$\leq 1000$ V AC 50/60 Hz $\leq 460$ V DC
[Uc] control circuit voltage	110 V AC 40...400 Hz
[Ie] rated operational current	1700 A (at $<40$ °C) AC AC-1

### Complementary

[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	1700 A (at 40 °C)
Rated breaking capacity	2550 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	10000 A 40 °C - 10 s 7500 A 40 °C - 30 s 5500 A 40 °C - 1 min 4200 A 40 °C - 3 min 3000 A 40 °C - 10 min
Associated fuse rating	1600 A gG at $\leq 440$ V
Average impedance	0.1 mOhm - Ith 1700 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C 1000 V conforming to UL 60947-4-1
Power dissipation per pole	200 W AC-1
Overvoltage category	III
Power pole contact composition	3 NO
Control circuit voltage limits	Operational: 0.85...1.1 U <sub>c</sub> 40...400 Hz (at 55 °C) Drop-out: 0.3...0.5 U <sub>c</sub> 40...400 Hz (at 55 °C)
Inrush power in VA	2200 VA, 40...400 Hz cos phi 0.9 (at 20 °C)

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

<b>Hold-in power consumption in VA</b>	36 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
<b>Maximum operating rate</b>	600 cyc/h 55 °C
<b>Operating time</b>	100...170 ms opening 40...75 ms closing
<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 3 cable(s) - busbar cross section: 100 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>	36 W
<b>Standards</b>	EN 60947-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-4-1 IEC 60947-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
<b>Product certifications</b>	UL CSA CCC CB Scheme EAC UKCA
<b>Compatibility code</b>	LC1F
<b>Control circuit type</b>	AC at 40...400 Hz

## Environment

<b>Protective treatment</b>	TH
<b>Ambient air temperature for operation</b>	-5...40 °C
<b>Ambient air temperature for storage</b>	-60...80 °C
<b>Permissible ambient air temperature around the device</b>	-40...60 °C
<b>Height</b>	332 mm
<b>Width</b>	438 mm
<b>Depth</b>	238.6 mm
<b>Operating altitude</b>	3000 m without derating
<b>Net weight</b>	30 kg

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	39.5 cm
<b>Package 1 Width</b>	50.0 cm
<b>Package 1 Length</b>	62.0 cm
<b>Package 1 Weight</b>	30.0 kg
<b>Unit Type of Package 2</b>	P06
<b>Number of Units in Package 2</b>	1

Package 2 Height	77.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	38.5 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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