Product data sheet
Characteristics

LC1F1700FD
TeSys F contactor - 3P (3 NO) - AC-1 - <= 1000 V 1700 A - coil 110 V DC

Commercial status
End of Commercialisation : OCT 29, 2020

⚠ End of Commercialisation

Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	3P
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Uc] control circuit voltage	110 V DC
[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 <= 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
Pole contact composition	3 NO
Control circuit voltage limits	Operational: 0.85...1.1 Uc (at 55 °C) Drop-out: 0.2...0.35 Uc (at 55 °C)
Inrush power in W	2100 W (at 20 °C)
Hold-in power consumption in W	10 W at 20 °C
Maximum operating rate	600 Cyc/H 55 °C
Operating time	50...60 ms closing 45...60 ms opening

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance 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.
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Connections - terminals	Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²solid without cable end Power circuit: bar 3 cable(s) - busbar cross section: 100 x 5 mm Power circuit: bolted connection
Tightening torque	Control circuit: 1.2 N.m Power circuit: 58 N.m
Mounting support	Plate
Heat dissipation	10 W
Standards	IEC 60947-1 JIS C8201-4-1 EN 60947-4-1 IEC 60947-4-1 EN 60947-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product certifications	UL[RETURN]CSA[RETURN]CCC[RETURN]CB Scheme[RETURN]EAC
Compatibility code	LC1F
Control circuit type	DC standard

Environment

Protective treatment	TH
Ambient air temperature for operation	-5…40 °C
Ambient air temperature for storage	-60…80 °C
Permissible ambient air temperature around the device	-40…60 °C
Height	332 Mm
Width	438 Mm
Depth	238.6 Mm
Operating altitude	3000 m without derating
Net weight	30 Kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	39.5 Cm
Package 1 Width	50 Cm
Package 1 Length	62 Cm
Package 1 Weight	30 Kg

Offer Sustainability

EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
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

Product Life Status : End of commerc. - Block