Product data sheet
Characteristics

LC1F1400P7
Contactor, TeSys F, 3P(3NO), AC-1 <=1000V 1400A, 230V AC coil



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	230 V AC 40...400 Hz
[Ie] rated operational current	1400 A (at <40 °C) AC AC-1

Complementary

[Uimp] rated impulse withstand voltage	8 KV
[Ith] conventional free air thermal current	1400 A (at 40 °C)
Rated breaking capacity	2100 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	8000 A 40 °C - 10 s 6000 A 40 °C - 30 s 4500 A 40 °C - 1 min 4000 A 40 °C - 3 min 2600 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	150 W AC-1
Overvoltage category	III
Pole contact composition	3 NO
Control circuit voltage limits	Operational: 0.85...1.1 Uc 40...400 Hz (at 55 °C) Drop-out: 0.3...0.5 Uc 40...400 Hz (at 55 °C)
Inrush power in VA	2200 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	36 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Maximum operating rate	600 Cyc/H 55 °C
Operating time	100...170 ms opening 40...75 ms closing

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 2 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	36 W
Standards	IEC 60947-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 EN 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product certifications	UL[RETURN]CSA[RETURN]CCC[RETURN]CB Scheme[RETURN]EAC[RETURN]UKCA
Compatibility code	LC1F
Control circuit type	AC at 40...400 Hz

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	29 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	50.0 Cm
Package 1 Length	62.0 Cm
Package 1 Weight	30.0 Kg

Offer Sustainability

Recyclability potential, in %	84
Total lifecycle Carbon footprint	14 262 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	202.928467913608
Carbon footprint of the manufacturing phase [A1 to A3]	203 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	12.028844528756379
Carbon footprint of the distribution phase [A4]	12 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.274514712672259
Carbon footprint of the installation phase [A5]	0.3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	13993.941973964284
Carbon footprint of the use phase [B2, B3, B4, B6]	13 994 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	52.87453251949285
Carbon footprint of the end-of-life phase [C1 to C4]	53 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	14262

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No, we have minimized the use of plastic in the packaging in compliance with regulations and c
SCIP Number	F040462c-f312-4a6d-9d16-164be5751a29
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised