Product data sheet
Characteristics

LC1F1250F7
Contactor, TeSys F, 3P(3NO), AC-1 <=1000V 1260A, 110V 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	<= 460 V DC <= 690 V AC 50/60 Hz
[Uc] control circuit voltage	110 V AC 40...400 Hz
[Ie] rated operational current	1260 A (at <40 °C) AC-1

Complementary

[Uimp] rated impulse withstand voltage	8 KV
[Ith] conventional free air thermal current	1260 A (at 40 °C)
Rated breaking capacity	1890 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	3000 A 40 °C - 3 min 8000 A 40 °C - 10 s 5200 A 40 °C - 30 s 4000 A 40 °C - 1 min 2000 A 40 °C - 10 min
Associated fuse rating	1000 A gG at <= 440 V
Average impedance	0.12 MOhm - Ith 1260 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
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: 0.25...0.5 Uc 40...400 Hz (at 55 °C)
Inrush power in VA	1650 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Hold-in power consumption in VA	22 VA, 40...400 Hz cos phi 0.9 (at 20 °C)
Maximum operating rate	1200 Cyc/H 55 °C
Operating time	40...80 ms closing 100...200 ms opening

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	20 W
Standards	EN 60947-1 IEC 60947-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-4-1
Product certifications	CB[RETURN]UL[RETURN]CSA[RETURN]CQC[RETURN]CE[RETURN]UKCA[RETURN]CCC
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	338 Mm
Width	309 Mm
Depth	255 Mm
Operating altitude	3000 m without derating
Net weight	19 Kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	29.500 Cm
Package 1 Width	37.000 Cm
Package 1 Length	46.000 Cm
Package 1 Weight	21.700 Kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	75.000 Cm
Package 2 Width	80.000 Cm
Package 2 Length	64.000 Cm
Package 2 Weight	96.800 Kg

Offer Sustainability

Recyclability potential, in %	84
Total lifecycle Carbon footprint	12 476 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	132.9531341502949
Carbon footprint of the manufacturing phase [A1 to A3]	133 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	7.880967105047282
Carbon footprint of the distribution phase [A4]	8 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.17985446692320417
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	12300.139707716695
Carbon footprint of the use phase [B2, B3, B4, B6]	12 300 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No

Carbon footprint of the end-of-life phase [C1 to C4]	34.641935098978074
Carbon footprint of the end-of-life phase [C1 to C4]	35 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	12476
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