Product data sheet
Characteristics

LC1F1250
Contactor body without coil, TeSys F, 3P(3NO), AC-1 <=1000V 1260A



Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz
[Ie] rated operational current	1260 A (at <40 °C) at <= 440 V AC-1

Complementary

[Uc] control circuit voltage	110...600 V AC 40...400 Hz with LX1/LX9 coil 28...250 V DC with LX4 coil
[Uimp] rated impulse withstand voltage	8 KV
Overvoltage category	III
[Ith] conventional free air thermal current	1260 A (at 40 °C)
Irms rated making capacity	1890 A conforming to IEC 60947-4-1
Rated breaking capacity	1890 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	3000 A 40 °C - 3 min 5200 A 40 °C - 30 s 4000 A 40 °C - 1 min 2000 A 40 °C - 10 min 8000 A 40 °C - 10 s
Associated fuse rating	1400 A gG at <= 440 V for power circuit
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
Control circuit voltage limits	Operational: 0.85...1.1 Uc AC 40...400 Hz with LX1/LX9 coil Drop-out: 0.25...0.5 Uc AC 40...400 Hz with LX1/LX9 coil Operational: 0.85...1.1 Uc DC with LX4 coil Drop-out: 0.2...0.35 Uc DC with LX4 coil
Heat dissipation	20 W
Operating time	40...80 ms closing for with LX1/LX9 coil 100...200 ms opening for with LX1/LX9 coil 60...70 ms closing for with LX4 coil 40...50 ms opening for with LX4 coil
Mounting support	Plate

Standards	IEC 60947-1 EN 60947-1 JIS C8201-4-1 EN 60947-4-1 IEC 60947-4-1
Product certifications	CB[RETURN]UL[RETURN]CSA[RETURN]CQC[RETURN]CE[RETURN]UKCA[RETURN]CCC
Connections - terminals	Power circuit: bar 2 cable(s) Power circuit: bolted connection 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 with 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 mm²solid without cable end Control circuit: screw clamp terminals 1 cable(s) 1…4 mm² Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²
Tightening torque	Power circuit: 58 N.m Control circuit: 1.2 N.m
Mechanical durability	1 Mcycles
Inrush power in VA	1500…1730 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 1420…1920 VA (at 20 °C)with LX4 coil
Hold-in power consumption in VA	20…25 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 6.5…12.5 VA (at 20 °C)with LX4 coil
Maximum operating rate	1200 Cyc/H 55 °C

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
Operating altitude	3000 m without derating
Mechanical robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor open: 6 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
Height	338 Mm
Width	309 Mm
Depth	255 Mm
Net weight	19 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	37.0 Cm
Package 1 Length	44.0 Cm
Package 1 Weight	20.1 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, which is known to the S
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