Product data sheet
Characteristics

LC1F2100
Contactor body without coil, TeSys F, 3P(3NO), AC-1 <=1000V 2100A



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	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	2100 A (at <40 °C) at <= 440 V AC AC-1

Complementary

[Uc] control circuit voltage	110...500 V AC 40...400 Hz with LX1/LX9 coil 110...440 V DC with LX4 coil
[Uimp] rated impulse withstand voltage	8 KV
Overvoltage category	III
[Ith] conventional free air thermal current	2100 A (at 40 °C)
Irms rated making capacity	3150 A AC conforming to IEC 60947-4-1
Rated breaking capacity	3150 A for power circuit conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	10000 A 40 °C - 10 s for power circuit 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	2000 A gG at <= 440 V for power circuit conforming to IEC 60947-4-1
Average impedance	0.1 MOhm - Ith 2100 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
Control circuit voltage limits	Operational: 0.85...1.1 Uc AC 40...400 Hz with LX1/LX9 coil Drop-out: 0.3...0.55 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	18 W
Operating time	40...75 ms closing for with LX1/LX9 coil 100...170 ms opening for with LX1/LX9 coil 50...60 ms closing for with LX4 coil 45...60 ms opening for with LX4 coil
Mounting support	Plate

Standards	JIS C8201-4-1 EN 60947-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product certifications	CCC[RETURN]UL[RETURN]CB Scheme[RETURN]CSA[RETURN]EAC[RETURN]UKCA
Connections - terminals	Power circuit: bar 4 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	0.5 Mcycles
Inrush power in VA	1600…2400 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 2000…2200 VA (at 20 °C)with LX4 coil
Hold-in power consumption in VA	29…37 VA, 40...400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 8…10 VA (at 20 °C)with LX4 coil
Maximum operating rate	600 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	332 Mm
Width	438 Mm
Depth	238.6 Mm
Net weight	31 Kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	38.0 Cm
Package 1 Width	50.0 Cm
Package 1 Length	60.0 Cm
Package 1 Weight	31.0 Kg

Offer Sustainability

Recyclability potential, in %	84
Total lifecycle Carbon footprint	28 332 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	216.9235346662706
Carbon footprint of the manufacturing phase [A1 to A3]	217 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	12.858420013498199
Carbon footprint of the distribution phase [A4]	13 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.29344676182206997
Carbon footprint of the installation phase [A5]	0.3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	28045.23616913334
Carbon footprint of the use phase [B2, B3, B4, B6]	28 045 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No

Carbon footprint of the end-of-life phase [C1 to C4]	56.52105200359581
Carbon footprint of the end-of-life phase [C1 to C4]	57 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	28332
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