Product data sheet
Characteristics

LC1F1000F7
Contactor, TeSys F, 3P(3NO), AC-3 <=440V 1000A, 110V AC coil



Main

Range	TeSys
Range of product	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-1
Poles description	3P
[Ue] rated operational voltage	<= 440 V AC 50/60 Hz
[Uc] control circuit voltage	110 V AC 40...400 Hz
[Ie] rated operational current	1250 A (at <40 °C) at <= 440 V AC AC-1 1000 A (at <55 °C) at <= 440 V AC AC-3

Complementary

[Uimp] rated impulse withstand voltage	8 KV
[Ith] conventional free air thermal current	1250 A (at 40 °C)
Rated breaking capacity	8 KA 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	1400 A gG at <= 440 V
Average impedance	0.1 MOhm - Ith 1250 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	200 W AC-1
Overvoltage category	III
Pole contact composition	3 NO
Maximum operating rate	600 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 3 cable(s) Power circuit: bar 4 cable(s)

Tightening torque	Control circuit: 1.2 N.m Power circuit: 58 N.m
Mounting support	Plate
Power range	315 KW at 220…230 V 3 phases 560 KW at 380…400 V 3 phases 630 KW at 415 V 3 phases 670 KW at 440 V 3 phases
Motor starter type	Direct on-line contactor
Contactor coil voltage	110 V AC standard
Standards	IEC 60947-4-1 IEC 60947-1 EN 60947-1 EN 60947-4-1
Product certifications	CB[RETURN]CCC[RETURN]CSA[RETURN]UKCA
Compatibility code	LC1F
Control circuit type	AC at 40...400 Hz

Environment

IP degree of protection	IP20 front face with shrouds conforming to IEC 60529 IP20 front face with shrouds conforming to VDE 0106
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	31 Kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	38.000 Cm
Package 1 Width	49.000 Cm
Package 1 Length	60.000 Cm
Package 1 Weight	33.541 Kg

Offer Sustainability

Recyclability potential, in %	84
Total lifecycle Carbon footprint	9 922 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]	9635.173162401637
Carbon footprint of the use phase [B2, B3, B4, B6]	9 635 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	9922
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 cons

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
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