Product datasheet

Specifications



TeSys F reversing contactor - 3P(3 NO) AC-3 <= 440 V 150 A - without coil

Local distributor code:

402917348 LC2F150

Discontinued on: 31 Dec 2023

Discontinued

EAN Code: 3389110227383

Main

Range	TeSys
Product name	TeSys F
Product or component type	Reversing contactor
Device short name	LC2F
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1
Device presentation	Preassembled with reversing power busbar
Poles description	3P
power pole contact composition	3 NO
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz <= 460 V DC
[Ie] rated operational current	250 A (at <40 °C) at <= 440 V AC AC-1 150 A (at <55 °C) at <= 440 V AC AC-3
Motor power kW	65 kW at 1000 V AC 50/60 Hz 75 kW at 380...400 V AC 50/60 Hz 80 kW at 415 V AC 50/60 Hz 80 kW at 440 V AC 50/60 Hz 90 kW at 500 V AC 50/60 Hz 40 kW at 220...240 V AC 50/60 Hz 100 kW at 660...690 V AC 50/60 Hz
Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	250 A (at 40 °C)
Irms rated making capacity	1500 A AC conforming to IEC 60947-4-1
Rated breaking capacity	1200 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	1200 A 40 °C - 10 s 700 A 40 °C - 30 s 600 A 40 °C - 1 min 450 A 40 °C - 3 min 350 A 40 °C - 10 min
Associated fuse rating	160 A aM at <= 440 V 250 A gG at <= 440 V
Average impedance	0.35 mOhm - Ith 250 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60947-4-1 1500 V conforming to VDE 0110 group C

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Power dissipation per pole	8 W AC-3
Interlocking type	Mechanical
Mounting support	Plate
Standards	EN 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-4-1 IEC 60947-1
Product certifications	CB RMRoS DNV ABS UL CCC CSA LROS (Lloyds register of shipping) RINA UKCA
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: connector 1 cable(s) 120 mm² Power circuit: lugs-ring terminals 1 cable(s) 120 mm² Power circuit: bar 2 cable(s) - busbar cross section: 25 x 3 mm
Tightening torque	Control circuit: 1.2 N.m Power circuit: 18 N.m

Environment

IP degree of protection	IP2X front face with shrouds conforming to IEC 60529 IP2X front face with shrouds conforming to VDE 0106
Protective treatment	TH
Ambient air temperature for operation	-5…55 °C
Ambient air temperature for storage	-60…80 °C
Permissible ambient air temperature around the device	-40…70 °C
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Mechanical robustness	Vibrations contactor open: 2 Gn, 5...300 Hz Vibrations contactor closed: 6 Gn, 5...300 Hz Shocks contactor open: 9 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms
Height	170 mm
Width	345 mm
Depth	171 mm
Net weight	7.56 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	30.000 cm
Package 1 Width	40.000 cm
Package 1 Length	60.000 cm

Package 1 Weight	9.114 kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	44.956 kg

Logistical informations

Country of origin	CZ

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**1 113 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**150 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**1 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.7 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**948 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**14 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

SCIP Number	**B2d4179a-eb65-40a3-a1ef-d9a33060486f**
EU RoHS Directive	**Compliant By Exemption**

Use Again

Repack and remanufacture

Recyclability potential, in %	**91**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**