



contactor, TeSys F, 3P(3NO)-AC-3, <=440V 265A with coil LX1/LX9 -24...1000V AC 40/400Hz, LX4 -24...460V DC, LXE -100...250V AC 50/60Hz or 100...380V DC

LC1F265

To be discontinued on: 31 December 2023

Main

Range	TeSys
Product name	TeSys F
Product or component type	Contactor
Device short name	LC1F
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-4 AC-1
Poles description	3P
Power pole contact composition	3 NO
[le] rated operational current	350 A (at <40 °C) at <= 440 V AC AC-1 265 A (at <55 °C) at <= 440 V AC AC-3
Motor power kW	132 kW at 380400 V AC 50/60 Hz (AC-3) 140 kW at 415 V AC 50/60 Hz (AC-3) 140 kW at 440 V AC 50/60 Hz (AC-3) 147 kW at 1000 V AC 50/60 Hz (AC-3) 160 kW at 500 V AC 50/60 Hz (AC-3) 75 kW at 220240 V AC 50/60 Hz (AC-3) 160 kW at 660690 V AC 50/60 Hz (AC-3) 51 kW at 400 V AC 50/60 Hz (AC-4)

Complementary

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[Uc] control circuit voltage	241000 V AC 40400 Hz with LX1/LX9 coil 24460 V DC with LX4 coil 100250 V AC 50/60 Hz with LXE coil 100380 V with LXE coil
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	350 A (at 40 °C)
Irms rated making capacity	2650 A AC conforming to IEC 60947-4-1
Rated breaking capacity	2120 A conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	2200 A 40 °C - 10 s 1230 A 40 °C - 30 s 950 A 40 °C - 1 min 620 A 40 °C - 3 min

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

Associated fuse rating	315 A aM at <= 440 V 400 A gG at <= 440 V
Average impedance	0.3 mOhm - Ith 350 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	37 W AC-1 21 W AC-3
Control circuit voltage limits	Operational: 0.851.1 Uc AC 40400 Hz with LX1/LX9 coil Drop-out: 0.350.55 Uc AC 40400 Hz with LX1/LX9 coil Operational: 0.851.1 Uc DC with LX4 coil Drop-out: 0.150.2 Uc DC with LX4 coil Operational: 85275 V AC 50/60 Hz with LXE coil Drop-out: 060 V AC 50/60 Hz with LXE coil Operational: 85418 V DC with LXE coil Drop-out: 045 V DC with LXE coil
Heat dissipation	8 W 2.22.5 W
Operating time	4065 ms closing for with LX1/LX9 coil 100170 ms opening for with LX1/LX9 coil 4050 ms closing for with LX4 coil 4065 ms opening for with LX4 coil 4080 ms closing for with LXE coil 654 ms opening for with LXE coil
Mounting support	Plate
Standards	IEC 60947-1 IEC 60947-4-1 JIS C8201-4-1 EN 60947-1 EN 60947-4-1
Product certifications	ABS CB DNV RMRoS UL CSA RINA LROS (Lloyds register of shipping) BV UKCA
Connections - terminals	Power circuit: bar 2 cable(s) - busbar cross section: 32 x 4 mm Power circuit: lugs-ring terminals 1 cable(s) 240 mm² Power circuit: connector 1 cable(s) 240 mm² Power circuit: bolted connection Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²solid without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² Control circuit: screw clamp terminals 2 cable(s) 14 mm² Control circuit: screw clamp terminals 2 cable(s) 0.22.5 mm²flexible without cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm²flexible with cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm²flexible with cable end
Tightening torque	Power circuit: 35 N.m Control circuit: 1.2 N.m Control circuit: 0.6 N.m
Mechanical durability	10 Mcycles
Inrush power in VA	600700 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 655803 VA (at 20 °C)with LX4 coil 300350 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil 300310 VA (at 20 °C)with LXE coil
Hold-in power consumption in VA	810 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX1/LX9 coil 3.684.53 VA (at 20 °C)with LX4 coil 4.57.0 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil 2.54.0 VA (at 20 °C)with LXE coil
Maximum operating rate	2400 cyc/h 55 °C
Compatibility code	LC1F
[Ue] rated operational voltage	<= 1000 V AC-1 <= 690 V AC-3 <= 690 V AC-4 <= 460 V DC

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	-555 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C
Operating altitude	3000 m without derating
Mechanical robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 5 Gn, 5300 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	203 mm
Width	201.5 mm
Depth	213 mm
Net weight	8.54 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	25.000 cm
Package 1 Width	25.000 cm
Package 1 Length	28.000 cm
Package 1 Weight	7.159 kg
Unit Type of Package 2	P06
Number of Units in Package 2	12
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	95.140 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty

18 months

Recommended replacement(s)

LC1F265 may be replaced by any of the following products:

1x



High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 265A, advanced version, 24...48V wide band AC/DC coil

LC1G265BEEA

1x



High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 265A, standard version, 48...130V wide band AC/DC coil

LC1G265EHEN

1x



High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 265A, advanced version, 48...130V wide band AC/DC coil

LC1G265EHEA

1x



High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 265A, advanced version, 200...500V wide band AC/DC coil

LC1G265LSEA

1x



High power contactor, TeSys Giga, 3 pole (3NO), AC-3 <=440V 265A, standard version, 100...250V wide band AC/DC coil

LC1G265KUEN