Product datasheet Characteristics

LC1F330

TeSys F contactor-3P(3 NO)-AC-3 <= 440V 330A with coil LX1/LX9 -24...1000V AC 40/400Hz, LX4 -24...460V DC, LXE -100...250V AC 50/60Hz or 100...380V DC





Main

TeSys	
TeSys F	
Contactor	
LC1F	
Motor control Resistive load	
AC-4 AC-3 AC-1	
3P	
3 NO	
<= 1000 V AC 50/60 Hz <= 460 V DC	
400 A (at <40 °C) at <= 440 V AC AC-1 330 A (at <55 °C) at <= 440 V AC AC-3	
160 kW at 1000 V AC 50/60 Hz (AC-3) 160 kW at 380400 V AC 50/60 Hz (AC-3) 180 kW at 415 V AC 50/60 Hz (AC-3) 200 kW at 440 V AC 50/60 Hz (AC-3) 200 kW at 500 V AC 50/60 Hz (AC-3) 100 kW at 220240 V AC 50/60 Hz (AC-3) 220 kW at 660690 V AC 50/60 Hz (AC-3) 59 kW at 400 V AC 50/60 Hz (AC-4)	
	TeSys F Contactor LC1F Motor control Resistive load AC-4 AC-3 AC-1 3P 3 NO <= 1000 V AC 50/60 Hz <= 460 V DC 400 A (at <40 °C) at <= 440 V AC AC-1 330 A (at <55 °C) at <= 440 V AC AC-3 160 kW at 1000 V AC 50/60 Hz (AC-3) 160 kW at 380400 V AC 50/60 Hz (AC-3) 180 kW at 415 V AC 50/60 Hz (AC-3) 200 kW at 440 V AC 50/60 Hz (AC-3) 200 kW at 500 V AC 50/60 Hz (AC-3) 100 kW at 220240 V AC 50/60 Hz (AC-3) 220 kW at 660690 V AC 50/60 Hz (AC-3)

Complementary

[Uc] control circuit voltage 24...1000 V AC 40...400 Hz with LX1/LX9 coil 24...460 V DC with LX4 coil 100...250 V AC 50/60 Hz with LXE coil

[] limpl rated impulse withstand valters	8 kV
[Uimp] rated impulse withstand voltage Overvoltage category	8 KV
[Ith] conventional free air thermal	400 A (at 40 °C)
current	40077 (41.40-0)
Irms rated making capacity	3300 A AC conforming to IEC 60947-4-1
Rated breaking capacity	2640 A conforming to IEC 60947-4-1
[lcw] rated short-time withstand current	2650 A 40 °C - 10 s 1800 A 40 °C - 30 s 1300 A 40 °C - 1 min 900 A 40 °C - 3 min 750 A 40 °C - 10 min
Associated fuse rating	400 A aM at <= 440 V 500 A gG at <= 440 V
Average impedance	0.28 mOhm - Ith 400 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	44 W AC-1 31 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 2.25.5 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 60947-4-1 JIS C8201-4-1 EN 60947-1 IEC 60947-1 EN 60947-4-1
Product certifications	ABS CSA UL RMRoS DNV CB BV LROS (Lloyds register of shipping) RINA
Connections - terminals	Power circuit: lugs-ring terminals 1 cable(s) 240 mm² Power circuit: bar 2 cable(s) - busbar cross section: 30 x 5 mm 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) 125 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) 14 mm² Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm²flexible without cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.252.5 mm²flexible with cable end Control circuit: screw clamp terminals 1.0 cable(s) 0.22.5 mm²flexible without 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

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
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	206 mm
Width	213 mm
Depth	219 mm
Net weight	9.5 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	8.522 kg
Package 1 Height	25.2 cm
Package 1 width	25.4 cm
Package 1 Length	30.4 cm
Unit Type of Package 2	CAR
Number of Units in Package 2	1
Package 2 Weight	8.522 kg
Package 2 Height	25 cm
Package 2 width	25 cm
Package 2 Length	35 cm
Unit Type of Package 3	P06
Number of Units in Package 3	10
Package 3 Weight	93.02 kg
Package 3 Height	80 cm
Package 3 width	80 cm
Package 3 Length	60 cm

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Compliant EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	

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
Contractual warranty	
Warranty	18 months