Product datasheet

Specifications





TeSys F contactor - 3P(3 NO)-AC-3 <= 440V 185A with coil LX9 -24...600V AC 40/400Hz, LX4 -24...460V DC, LXE - 100...250V AC 50/60Hz or 100...380V DC

Local distributor code:

2220105 LC1F185

① Discontinued

! Discontinued on: 11 Jan 2023

EAN Code: 3389110122381

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
[Ue] Rated Operational Voltage	<= 690 V AC 50/60 Hz <= 460 V DC
[le] Rated Operational Current	275 A (at <40 °C) at <= 440 V AC-1 185 A (at <55 °C) at <= 440 V AC-3
Motor Power Kw	100 kW at 415 V AC 50/60 Hz (AC-3) 100 kW at 440 V AC 50/60 Hz (AC-3) 110 kW at 500 V AC 50/60 Hz (AC-3) 90 kW at 380400 V AC 50/60 Hz (AC-3) 55 kW at 220240 V AC 50/60 Hz (AC-3) 110 kW at 660690 V AC 50/60 Hz (AC-3) 33 kW at 400 V AC 50/60 Hz (AC-4)

Complementary

[Uc] Control Circuit Voltage	24575 V AC 40400 Hz with LX9 coil 24460 V DC with LX4 coil 100250 V AC 50/60 Hz with LXE coil 100380 V DC with LXE coil
[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	275 A (at 40 °C)
Irms Rated Making Capacity	1850 A conforming to IEC 60947-4-1
Rated Breaking Capacity	1480 A conforming to IEC 60947-4-1

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[Icw] Rated Short-Time Withstand Current	1500 A 40 °C - 10 s 920 A 40 °C - 30 s
	740 A 40 °C - 1 min
	500 A 40 °C - 3 min
	400 A 40 °C - 10 min
Associated Fuse Rating	200 A aM at <= 440 V 315 A gG at <= 440 V
Average Impedance	0.33 mOhm - Ith 275 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	25 W AC-1 12 W AC-3
Control Circuit Voltage Limits	Operational: 0.851.1 Uc AC 40400 Hz with LX9 coil
	Drop-out: 0.20.55 Uc AC 40400 Hz with 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	89.8 W 2.22.5 W
Operating Time	35 ms closing for with LX9 coil
	130 ms opening for with LX9 coil
	3040 ms closing for with LX4 coil
	3050 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
	EN 60947-1 JIS C8201-4-1
	EN 60947-4-1
	IEC 60947-1
Product Certifications	ABS
	LROS (Lloyds register of shipping)
	RINA CSA
	CB
	UL
	BV
	RMRoS
	DNV UKCA
Connections - Terminals	Power circuit: bar 2 cable(s) - busbar cross section: 25 x 3 mm
	Power circuit: lugs-ring terminals 1 cable(s) 150 mm²
	Power circuit: connector 1 cable(s) 150 mm ²
	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 2 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 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 mm²solid without cable end
	Power circuit: 18 N.m
•	Control circuit: 1.2 N.m
	Control circuit: 0.6 N.m
Mechanical Durability	10 Mcycles

Inrush Power In Va	9501180 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX9 coil 737902 VA (at 20 °C)with LX4 coil 280310 VA, 50/60 Hz cos phi 0.5 (at 20 °C)with LXE coil 270320 VA (at 20 °C)with LXE coil
Hold-In Power Consumption In Va	8.910.9 VA, 40400 Hz cos phi 0.9 (at 20 °C)with LX9 coil 4.135.07 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
Compatibility Code	LC1F

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	тн
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: 7 Gn for 1/2 sine wave (11 ms) Shocks contactor closed: 15 Gn for 1/2 sine wave (11 ms)
Height	174 mm
Width	168.5 mm
Depth	181 mm
Net Weight	5.45 kg
Colour	-

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	24.000 cm
Package 1 Width	27.000 cm
Package 1 Length	25.000 cm
Package 1 Weight	4.379 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	61.048 kg

Contractual warranty

Warranty 18 months



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

Ø	Mercury Free	
	Rohs Exemption Information	Yes
②	Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information