



TeSys LF - enclosed DOL starter - 1.6...2.5 A - local/ASI

LF3P07EA79

① Discontinued

Main

Range	TeSys
Product Name	TeSys LF
Product Or Component Type	Enclosed DOL starter
Device Application	AS interface
Device Composition	Contactor AS interface module Circuit-breaker
Utilisation Category	AC-3
Network Type	AC
[Uc] Control Circuit Voltage	24 V AC 50/60 Hz
Thermal Protection Adjustment Range	1.62.5 A
Control Type	Key switch 2 positions for local/AS-Interface control - bus - local Rotary handle for protection control - OFF - Trip - ON

Complementary

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Motor Power Kw	0.37 kW at 220/230 V AC 50/60 Hz 0.75 kW at 400/415 V AC 50/60 Hz
	0.75 KW at 400/415 V AC 50/60 HZ
Network Frequency	50/60 Hz
[Ue] Rated Operational Voltage	Power circuit: 415 V AC 50/60 Hz
	Output control relay: 250 V AC 50/60 Hz
	Output control relay: 30 V DC
[Uimp] Rated Impulse Withstand Voltage	6 kV for power circuit conforming to IEC 60947-1
	2.5 kV for 24 V conforming to IEC 60947-1
	2.5 kV for sensor conforming to IEC 60947-1
	2.5 kV for AS-Interface conforming to IEC 60947-1
Insulation Resistance	> 1000 mOhm for output and communication
Insulation	1500 V between output and ground
	1500 V between output and internal logic
	between input and communication
[Ui] Rated Insulation Voltage	415 V AC 50/60 Hz conforming to IEC 60947
[Ithe] Conventional Enclosed Thermal Current	5 A for output control relay at 40 °C
Protection Type	Inductive overvoltage
	Phase failure
Breaking Capacity	100 kA at 230/240 V conforming to IEC 60947-2
	100 kA at 400/415 V conforming to IEC 60947-2
Mechanical Durability	0.1 Mcycles for circuit breaker
	30 Mcycles for contactor

Electrical Durability	Circuit breaker: 0.1 Mcycles
	Contactor: 0.8 Mcycles - AC-3 - 8.5 A Relay: 0.1 Mcycles - 24 V, operating rate <6 cyc/mn - AC-12 - 5 A
	Relay: 1 Mcycles - 24 V, operating rate <15 cyc/mn - AC-12 - 1 A
	Relay: 0.5 Mcycles - 24 V, operating rate <15 cyc/mn - AC-14 - 1 A
	Relay: 1 Mcycles - 24 V, operating rate <15 cyc/mn - AC-14 - 0.5 A
	Relay: 5 Mcycles - 24 V, operating rate <30 cyc/mn - AC-14 - 0.25 A
	Relay: 0.1 Mcycles - 24 V, operating rate <6 cyc/mn - DC-12 - 5 A
	Relay: 0.2 Mcycles - 24 V, operating rate <6 cyc/mn - DC-12 - 2 A
	Relay: 0.5 Mcycles - 24 V, operating rate <15 cyc/mn - DC-3 - 1 A
	Relay: 1 Mcycles - 24 V, operating rate <30 cyc/mn - DC-3 - 0.25 A
Current Consumption	20 mA for communication bus during operation
	60 mA for communication bus sensor
	0 mA at 24 V for supply circuit de-energisation
	30 mA at 24 V for supply circuit maintained mode 110 mA at 24 V for supply circuit inrush
Local Signalling	Product status: 3 LEDs
_ooar o.gag	Input/output status: LED
Number Of Inputs	2 M12
Nominal Input Value	1930 V 50 mA - DC
Input Description	Status D0: forward stop - bit value 0
	Status D1: reverse stop - bit value 0
	Status D2: disable relay - bit value 0
	Status D3: unused - bit value 0
	Status D0: forward start - bit value 1
	Status D1: reverse start - bit value 1
	Status D2: enable relay - bit value 1
	Status D3: unused - bit value 1
Input Type	Resistive
Sensor Compatibility	2 or 3-wire PNP
Output Description	Command D0: not ready - bit value 0
	Command D1: stopped - bit value 0
	Command D2: sensor 1 missing - bit value 0
	Command D3: sensor 2 missing - bit value 0
	Command D0: ready - bit value 1
	Command D1: started - bit value 1 Command D2: sensor 1 present - bit value 1
	Command D2: sensor 1 present - bit value 1 Command D3: sensor 2 present - bit value 1
Response Time	<= 10 ms closing for output control relay
	<= 15 ms opening for output control relay
Contacts Type And Composition	1 C/O
As-Interface Profile	7A70 - extended A/B
Cable Gland Type	Supply circuit: Pg 16 - 1015 mm
	Power circuit: Pg 16 - 1015 mm
	Output control relay: Pg 13 - 1015 mm
	Output control relay: Pg 16 - 1015 mm
Connections - Terminals	Supply circuit: screw clamp terminals, 1 x 1.52 x 6 mm²rigid
Connection Terminal	Supply circuit: screw clamp terminals, 1 x 1.52 x 6 mm²flexible without cable end
	Supply circuit: screw clamp terminals, 1 x 1.52 x 4 mm²flexible with cable end
	Power circuit: screw clamp terminals, 1 x 1.52 x 4 mm²rigid
	Power circuit: screw clamp terminals, 1 x 1.52 x 4 mm²flexible without cable end
	Power circuit: screw clamp terminals, 1 x 1.51 x 2.5 mm²flexible with cable end
	Output control relay: screw terminals, 1 x 0.51 x 1.5 mm²rigid
	Output control relay: screw terminals, 1 x 0.51 x 1.5 mm²flexible without cable end
	Output control relay: screw terminals, 1 x 0.51 x 1.5 mm²flexible with cable end
Tightening Torque	Supply circuit: 1.7 N.m - with screwdriver flat Ø 5.5 mm
	Power circuit: 0.8 N.m - with screwdriver flat Ø 5.5 mm
	Output control relay: 0.7 N.m - with screwdriver flat Ø 3.5 mm
Width	175 mm
Height	195 mm
Depth	175 mm
Net Weight	1.35 kg

Environment

Electromagnetic Compatibility	Electrostatic discharge - test level: 8 kV level 3 (in air) conforming to EN/IEC 61000-4-2	
	Electrostatic discharge - test level: 4 kV level 2 (in indirect mode) conforming to EN/ IEC 61000-4-2 Surge immunity test - test level: 4 kV level 4 (power, line to ground) conforming to IEC 61000-4-5 Surge immunity test - test level: 2 kV level 4 (power, line to line) conforming to EN/ IEC 61000-4-5	
		Surge immunity test - test level: 2 kV level 2 (control circuit, line to ground) conforming to IEC 61000-4-5
		Surge immunity test - test level: 500 V level 2 (control circuit, line to line) conforming to EN/IEC 61000-4-5
	Electrical fast transient/burst immunity test - test level: 2 kV level 3 conforming to EN/ IEC 61000-4-4	
	Conducted RF disturbances - test level: 10 V/m conforming to IEC 61000-4-6	
		Conducted RF disturbances - test level: 10 V/m conforming to ENV 50141 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m
		conforming to IEC 61000-4-3
	Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m conforming to ENV 50204	
	Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m conforming to ENV 50140	
	Disturbing field emission class B conforming to ENV 55011	
	Disturbing field emission class B conforming to CISPR 11	
Mechanical Robustness	Shocks contactor open - 10 Gn conforming to IEC 60068-2-27	
	Shocks contactor closed - 15 gn conforming to IEC 60068-2-27 Vibrations contactor open - 2 GN conforming to IEC 60068-2-6	
	Vibrations contactor closed - 4 gn conforming to IEC 60068-2-6	
p Degree Of Protection	IP54 conforming to IEC 60529	
Protective Treatment	TC	
Fire Resistance	960 °C conforming to IEC 60695-2-1	
Operating Altitude	2000 m	
Standards	IEC 60947-1	
	EN 60439-1	
	EN 60204-1	
	IEC 60439-1	
	IEC 60204-1	
	EN 60947-1	
Material	Bottom: polycarbonate + 20 % FG - black	
	Top: polycarbonate + 20 % FG - white: RAL 9001	
Ambient Air Temperature For Operation	-540 °C conforming to IEC 61439-1	
Ambient Air Temperature For Storage	-4080 °C conforming to IEC 61439-1	