LF3MP00D

TeSys LF - enclosed DOL starter - 0.16...0.25 A



Main	
Range	TeSys
Product name	TeSys LF
Product or component type	Enclosed DOL starter
Device application	AS interface
Device composition	AS interface module Contactor Circuit-breakerto be ordered separately
Utilisation category	AC-3
Network type	AC
Control circuit voltage	24 V for AC circuit at 50/60 Hz
Thermal protection adjustment range	0.160.25 A
Control type	Rotary handle for protection control - OFF - Trip - ON

Complementary

Network frequency	50/60 Hz
[Ue] rated operational voltage	30 V - DC for output control relay 250 V - AC at 50/60 Hz for output control relay 415 V - AC at 50/60 Hz for power circuit
[Uimp] rated impulse withstand voltage	2.5 kV for AS-Interface conforming to IEC 60947-1 2.5 kV for sensor conforming to IEC 60947-1 2.5 kV for 24 V conforming to IEC 60947-1 6 kV for power circuit conforming to IEC 60947-1
Insulation resistance	> 1000 mOhm between output and communication
Insulation	Between input and communication 1500 V between output and internal logic 1500 V between output and ground
[Ui] rated insulation voltage	415 V AC at 50/60 Hz conforming to IEC 60947
[Ithe] conventional enclosed thermal current	5 A for output control relay at 40 °C
Protection type	Phase failure Inductive overvoltage
Breaking capacity	100 kA at 400/415 V conforming to IEC 60947-2 100 kA at 230/240 V conforming to IEC 60947-2
Mechanical durability	Contactor : 30 Mcycles Circuit breaker : 0.1 Mcycles
Electrical durability	Relay: >= 1 Mcycles - 24 V with 30 cyc/mn - DC-3 - 0.25 A Relay: 0.5 Mcycles - 24 V with 15 cyc/mn - DC-3 - 1 A Relay: 0.2 Mcycles - 24 V with 6 cyc/mn - DC-12 - 2 A Relay: 0.1 Mcycles - 24 V with 6 cyc/mn - DC-12 - 5 A Relay: 5 Mcycles - 24 V with 30 cyc/mn - AC-14 - 0.25 A Relay: 1 Mcycles - 24 V with 15 cyc/mn - AC-14 - 0.5 A Relay: 0.5 Mcycles - 24 V with 15 cyc/mn - AC-14 - 1 A Relay: 1 Mcycles - 24 V with 15 cyc/mn - AC-12 - 1 A Relay: 0.1 Mcycles - 24 V with 6 cyc/mn - AC-12 - 5 A Contactor: 0.8 Mcycles - AC-3 - 8.5 A Circuit breaker: 0.1 Mcycles
Current consumption	110 mA at 24 V for supply circuit inrush 30 mA at 24 V for supply circuit maintained mode 0 mA at 24 V for supply circuit de-energisation 60 mA for communication bus sensor 20 mA for communication bus during operation
Local signalling	Input/Output status by LED Product status by 3 LEDs
Number of inputs	2 M12

Nominal input value	1930 V 050 mA - DC
Input description	Status D3: unused - bit value 1 Status D2: enable relay - bit value 1 Status D1: reverse start - bit value 1 Status D0: forward start - bit value 1 Status D3: unused - bit value 0 Status D2: disable relay - bit value 0 Status D1: reverse stop - bit value 0 Status D0: forward stop - bit value 0
Input type	Resistive
Sensor compatibility	2 or 3-wire PNP
Output description	Command D3: sensor 2 present - bit value 1 Command D2: sensor 1 present - bit value 1 Command D1: started - bit value 1 Command D0: ready - bit value 1 Command D3: sensor 2 missing - bit value 0 Command D2: sensor 1 missing - bit value 0 Command D1: stopped - bit value 0 Command D1: stopped - bit value 0
Response time	Output control relay : <= 15 ms during opening Output control relay : <= 10 ms during closing
Contacts type and composition	1 C/O
AS-interface profile	7DFF - standard
Cable gland type	Output control relay: Pg 16 - 1015 mm Output control relay: Pg 13 - 1015 mm Power circuit: Pg 16 - 1015 mm Supply circuit: Pg 16 - 1015 mm
Connections - terminals	Output control relay: screw terminals with 1 cables of 0.51.5 mm² - flexible with cable end Output control relay: screw terminals with 1 cables of 0.51.5 mm² - flexible without cable end Output control relay: screw terminals with 1 cables of 0.51.5 mm² - rigid Power circuit: screw clamp terminals with 12 cables of 1.52.5 mm² - flexible with cable end Power circuit: screw clamp terminals with 12 cables of 1.54 mm² - flexible without cable end Power circuit: screw clamp terminals with 12 cables of 1.54 mm² - rigid Supply circuit: screw clamp terminals with 12 cables of 1.54 mm² - flexible with cable end Supply circuit: screw clamp terminals with 12 cables of 1.56 mm² - flexible without cable end Supply circuit: screw clamp terminals with 12 cables of 1.56 mm² - rigid
Tightening torque	Output control relay : 0.7 N.m - with screwdriver flat \emptyset 3.5 mm Power circuit : 0.8 N.m - with screwdriver flat \emptyset 5.5 mm Supply circuit : 1.7 N.m - with screwdriver flat \emptyset 5.5 mm
Width	219 mm
Height	245 mm
Depth	179 mm
Product weight	1.02 kg

Environment

Electromagnetic compatibility	Disturbing field emission class B conforming to CISPR 11
,	Disturbing field emission class B conforming to ENV 55011
	Radiated radio-frequency electromagnetic field immunity test 10 V/m conforming to ENV 50140
	Radiated radio-frequency electromagnetic field immunity test 10 V/m conforming to ENV 50204
	Radiated radio-frequency electromagnetic field immunity test 10 V/m conforming to IEC 61000-4-3
	Conducted RF disturbances 10 V/m conforming to ENV 50141
	Conducted RF disturbances 10 V/m conforming to IEC 61000-4-6
	Electrical fast transient/burst immunity test 2 kV level 3 conforming to EN/IEC 61000-4-4
	Surge immunity test 500 V level 2 - control circuit, line to line - conforming to EN/ IEC 61000-4-5
	Surge immunity test 2 kV level 2 - control circuit, line to ground - conforming to IEC 61000-4-5
	Surge immunity test 2 kV level 4 - power, line to line - conforming to EN/IEC 61000-4-5
	Surge immunity test 4 kV level 4 - power, line to ground - conforming to IEC 61000-4-5
	Electrostatic discharge 4 kV level 2 - in indirect mode - conforming to EN/IEC 61000-4-2
	Electrostatic discharge 8 kV level 3 - in air - conforming to EN/IEC 61000-4-2
Mechanical robustness	Vibrations: 4 Gn during contactor closed conforming to IEC 60068-2-6 Vibrations: 2 Gn during contactor open conforming to IEC 60068-2-6 Shocks: 15 gn during contactor closed conforming to IEC 60068-2-27 Shocks: 10 Gn during contactor open conforming to IEC 60068-2-27
IP 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	EN 60204-1
	EN 60439-1
	EN 60947-1
	IEC 60204-1
	IEC 60439-1
	IEC 60947-1
Material	Steel - white : RAL 9001
Ambient air temperature for operation	-540 °C conforming to IEC 61439-1
	-4080 °C conforming to IEC 61439-1

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0925 - Schneider Electric declaration of conformity
Product end of life instructions	Need no specific recycling operations

