

### Main

Commercial Status	Commercialised
Range of product	TeSys
Device short name	LF3P
Motor starter type	Non reversing
Product or component type	Enclosed DOL starter
Poles description	3P
Contactors application	Motor control
Motor starter composition	Contactors With circuit breaker
Trip unit technology	Thermal-magnetic
Utilisation category	AC-3
[Uc] control circuit voltage	24 V DC
Network type	AC
Thermal protection adjustment range	1.6...2.5 A
Control type	Rotary knob blue Rotary knob black Local/AS-Interface control
Enclosure material	Polycarbonate impregnated glass fiber

### Complementary

Motor power kW	0.75 kW at 400...415 V AC 50/60 Hz 0.37 kW at 220...230 V AC 50/60 Hz
Network frequency	50/60 Hz
[Ue] rated operational voltage	415 V
Breaking capacity	Icu > 100 kA at 400...415 V conforming to IEC 60947-2 Icu > 100 kA at 230...240 V conforming to IEC 60947-2 Ics > 100 kA at 400...415 V conforming to IEC 60947-2 Ics > 100 kA at 230...240 V conforming to IEC 60947-2
Magnetic tripping limit	1.6...2.5 A +/- 20 %
Current consumption	30 mA at 24 V DC for auxiliary supply energisation 20 mA for AS-Interface line sealed 20 mA for AS-Interface line relays 20 mA for AS-Interface line inrush 20 mA for AS-Interface line de-energisation 110 mA at 24 V DC for auxiliary supply inrush 0 mA at 24 V DC for auxiliary supply de-energisation <= 50 mA for AS-Interface line sensor
Maximum sensor supply current	50 mA
Input voltage	> 11 V DC state 1 < 5 V DC state 0
Input current	> 6 mA state 1 > 2 mA state 0
Number of sensors	2
Wiring technique	2-wire 3-wire
Control circuit voltage limits	250 V for AC circuit output control relay 30 V for DC circuit
[Ith] conventional free air thermal current	5 A for output control relay

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Service life in cycles	<p>5000000 cycles at 0.25 A 24 V AC AC-14 - load type inductive - for output control relay</p> <p>1000000 cycles at 0.5 A 24 V AC AC-14 - load type inductive - for output control relay</p> <p>&gt; 1000000 cycles at 0.25 A 24 V DC DC-3 - load type resistive - for output control relay</p> <p>500000 cycles at 1 A 24 V DC DC-3 - load type resistive - for output control relay</p> <p>500000 cycles at 1 A 24 V AC AC-14 - load type inductive - for output control relay</p> <p>200000 cycles at 2 A 24 V DC DC-12 - load type resistive - for output control relay</p> <p>1000000 cycles at 1 A 24 V AC AC-12 - load type resistive - for output control relay</p> <p>100000 cycles at 5 A 24 V DC DC-12 - load type resistive - for output control relay</p> <p>100000 cycles at 5 A 24 V AC AC-12 - load type resistive - for output control relay</p>
Response time	<p>&lt; 15 ms unlatching for output control relay</p> <p>&lt; 10 ms latching for output control relay</p>
Protection type	<p>Overload protection a quick-blow fuse must be fitted</p> <p>DC inductive overloads by switching the coils of preactuators</p> <p>Against short-circuits a quick-blow fuse must be fitted</p> <p>AC inductive overloads by switching the coils of preactuators</p>
[Ui] rated insulation voltage	1500 V AC 50/60 Hz 60 s between output and earth or between output and internal logic
Resistance across terminals	> 1000 mOhm between output terminals and AS-Interface
AS-interface profile	<p>7.D.F.F standard addressing</p> <p>7.A.7.0 extended addressing A/B</p>
Output description	<p>Command D3 (O) not used - bit value: bit value 0</p> <p>Command D2 (O) control relay - bit value: bit value 0</p> <p>Command D1 (O) reverse running - bit value: bit value 0</p> <p>Command D0 (O) forward running - bit value: bit value 0</p>
Input description	<p>Status D3 (0) sensor 2</p> <p>Status D2 (0) sensor 1</p> <p>Status D1 (0) running</p> <p>Status D0 (0) ready</p>
Connections - terminals	<p>Power supply: screw clamp terminals 2 cable <math>\leq 6 \text{ mm}^2</math> - cable stiffness: solid</p> <p>Power supply: screw clamp terminals 2 cable <math>\leq 6 \text{ mm}^2</math> - cable stiffness: flexible - without cable end</p> <p>Power supply: screw clamp terminals 2 cable <math>\leq 4 \text{ mm}^2</math> - cable stiffness: flexible - with cable end</p> <p>Power supply: screw clamp terminals 1 cable <math>\geq 1.5 \text{ mm}^2</math> - cable stiffness: solid</p> <p>Power supply: screw clamp terminals 1 cable <math>\geq 1.5 \text{ mm}^2</math> - cable stiffness: flexible - without cable end</p> <p>Power supply: screw clamp terminals 1 cable <math>\geq 1.5 \text{ mm}^2</math> - cable stiffness: flexible - with cable end</p> <p>Power supply: cable gland Pg16 - diameter: 10...15 mm</p> <p>Output control relay: screw clamp terminals 1 cable <math>\geq 0.5 \text{ mm}^2</math> - cable stiffness: solid</p> <p>Output control relay: screw clamp terminals 1 cable <math>\geq 0.5 \text{ mm}^2</math> - cable stiffness: flexible - without cable end</p> <p>Output control relay: screw clamp terminals 1 cable <math>\geq 0.5 \text{ mm}^2</math> - cable stiffness: flexible - with cable end</p> <p>Output control relay: screw clamp terminals 1 cable <math>\leq 1.5 \text{ mm}^2</math> - cable stiffness: solid</p> <p>Output control relay: screw clamp terminals 1 cable <math>\leq 1.5 \text{ mm}^2</math> - cable stiffness: flexible - without cable end</p> <p>Output control relay: screw clamp terminals 1 cable <math>\leq 1.5 \text{ mm}^2</math> - cable stiffness: flexible - with cable end</p> <p>Output control relay: cable gland Pg16 - diameter: 10...15 mm</p> <p>Output control relay: cable gland Pg13 - diameter: 8...13 mm</p> <p>Motor: screw clamp terminals 2 cable <math>\leq 4 \text{ mm}^2</math> - cable stiffness: solid</p> <p>Motor: screw clamp terminals 2 cable <math>\leq 4 \text{ mm}^2</math> - cable stiffness: flexible - without cable end</p> <p>Motor: screw clamp terminals 1 cable <math>\geq 1.5 \text{ mm}^2</math> - cable stiffness: solid</p> <p>Motor: screw clamp terminals 1 cable <math>\geq 1.5 \text{ mm}^2</math> - cable stiffness: flexible - without cable end</p> <p>Motor: screw clamp terminals 1 cable <math>\geq 1.5 \text{ mm}^2</math> - cable stiffness: flexible - with cable end</p> <p>Motor: screw clamp terminals 1 cable <math>\leq 2.5 \text{ mm}^2</math> - cable stiffness: flexible - with cable end</p> <p>Motor: screw clamp terminals 1 cable <math>\leq 1.5 \text{ mm}^2</math> - cable stiffness: flexible - with cable end</p> <p>Motor: cable gland Pg16 - diameter: 10...15 mm</p>

Tightening torque	Power supply: 1.7 N.m - with screwdriver Philips No 2 Power supply: 1.7 N.m - with screwdriver flat Ø 5.5 mm Output control relay: 0.7 N.m - with screwdriver flat Ø 3.5 mm Motor: 0.8 N.m - with screwdriver Philips No 2 Motor: 0.8 N.m - with screwdriver flat Ø 5.5 mm
Mechanical durability	30000000 cycles automatic operation 100000 cycles manual operation
Electrical durability	800000 cycles automatic operation 100000 cycles manual operation
Width	175 mm
Height	195 mm
Depth	175 mm
Product weight	1.35 kg

## Environment

Standards	EN 60204-1 EN 60947-1 IEC 60439-1
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
Shock resistance	15 gn contactor closed conforming to IEC 60068-2-27 10 gn contactor open conforming to IEC 60068-2-27
Vibration resistance	4 gn 5...150 Hz contactor closed conforming to IEC 60068-2-6 2 gn 5...150 Hz contactor open conforming to IEC 60068-2-6
Resistance to electrostatic discharge	8 kV open air conforming to IEC 61000-4-2 8 kV open air conforming to EN 61000-4-2 4 kV indirect mode conforming to IEC 61000-4-2 4 kV indirect mode conforming to EN 61000-4-2
Resistance to radiated fields	10 V/m immunity tests-radiated disturbances conforming to ENV 50204 10 V/m immunity tests-radiated disturbances conforming to ENV 50141 10 V/m immunity tests-radiated disturbances conforming to ENV 50140 10 V/m immunity tests-conducted disturbances conforming to IEC 61000-4-6 10 V/m immunity tests-conducted disturbances conforming to IEC 61000-4-3
Resistance to fast transients	2 kV power conforming to IEC 61000-4-4 2 kV power conforming to EN 61000-4-4 2 kV AS-Interface conforming to IEC 61000-4-4 2 kV AS-Interface conforming to EN 61000-4-4 2 kV 24 V sensor conforming to IEC 61000-4-4 2 kV 24 V sensor conforming to EN 61000-4-4
Non-dissipating shock wave	2.5 kV AS-Interface conforming to IEC 60947-1 2.5 kV 1 line/standard for sensor conforming to IEC 60947-1 2.5 kV 1 line/standard for 24 V conforming to IEC 60947-1 6 kV power conforming to IEC 60947-1

## RoHS compliance

RoHS EUR status	Compliant
RoHS EUR conformity date(YYWW)	0925

## Contractual warranty

Period	18 months
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