



MOTOR PROTECTION

Elsumo's advanced motor protection ensures smooth running of your motor under any condition. Designed to be weather resistant sturdy and easy to install. The only protection your motor will ever need.

Super el-πρω υιο

220V 0.37kW to 2.2 kW

DOL starter with advanced motor protection:

- Weather proof metal enclosure
- Dry running
- Adjustable over/under load
- Over/under voltage
- Short circuit
- Locked rotor
- Lightning protection



el-πρω

380V 0.37kW to 37kW

DOL starter with standard motor protection:

- Weather proof metal enclosure
- Dry running
- Over/under load
- Short circuit
- Phase failure
- Locked rotor
- Lightning protection



Super el-πρω

380V 0.37kW to 37kW

DOL starter with advanced motor protection:

- Weather proof metal enclosure
- Dry running
- Adjustable over/under load
- Over/under voltage
- Short circuit
- Phase failure
- Phase sequence
- Phase imbalance
- Locked rotor
- Lightning protection

Super el-πρω and **el-πρω** models are also available in 525V

- Higher power rating available on request



MOTOR PROTECTION

COMMANDER ®

A complete electronic system, specially designed for the starting, protection and control of three phase induction motors for submersible, drainage and booster pumps.

The Commander is suitable for installations with limited starting current and torque. This unit replaces less conventional methods like autotransformers or star delta starters.

When installed with an electric pump the COMMANDER ® has the following features:

soft start

Limits and controls the starting parameters with programmable values: starting current, torque and time.

soft stop

Controls the power down time through adjustable parameters, in order to avoid the risk of water hammer

full protection

Protects the electric pump set against: overload, single phasing, high/low voltages, dry run (no load) protection.

available

In three sizes: up to 30, 60 and 120 Amp max.
Bigger units on special request.



COMMANDER

Code	Model	Max Amp Rating	Weight in Kg
621COM030	Commander 1	up to 30 Amps	11
621COM060	Commander 2	up to 60 Amps	11
621COM120	Commander 3	up to 120 Amps	12.5

GUARDIAN

The GUARDIAN® has been designed to control submersible and immersible electric motors, never the less it can protect any type of asynchronous electric motor.

The GUARDIAN® has the following features:

- straight forward DOL starter
- over / under load protection (dry run)
- over / under volt protection
- phase failure protection

The GUARDIAN® automatically restarts after a dry run situation occurred. After four failed restarts the unit will not restart until it has been manually reset. No sensors or probes are required for this protection as monitoring is done electronically via the phase angle.

The unit comes complete with an auxiliary wiring point to connect floats, pressure switches, alarm signals, timers, computers etc.



GUARDIAN

Code	Model	Power Rating kW	Amp Rating A
620GUARDM	Guardian M	0.37 to 1.5	3 to 12 230V
620GUARDMA	Guardian MA	1.5 to 2.2	12 to 18 230V
620GUARD1	Guardian 1	0.37 to 3	1 to 9 400V
620GUARD2	Guardian 2	4 to 7.5	9 to 18 400V
620GUARD2A	Guardian 2A	7.5 to 11	19 to 30 400V