

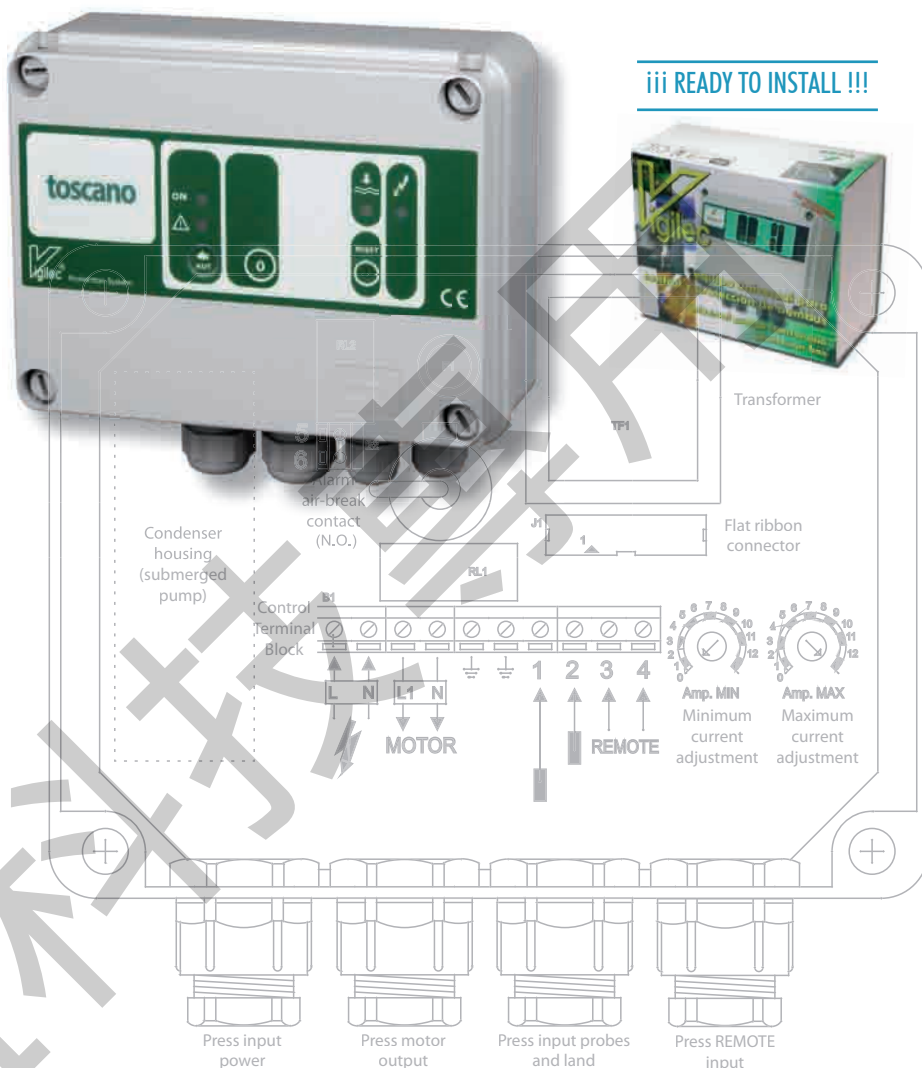
## General use

1 Single-phase pump control up to 2'2 KW.  
(direct-on-line starting -DOL-)

# V1M

### 1 Pump

- An all-in-one control and protection unit for any pump.
- Multicontrol.
- Single-phase 230 V AC, direct-on-line starting (DOL).
- Pump wiring failure protection.
- Overvoltage protection.
- Overload protection.
- Underload protection.
- Connection failures protection warranted.
- Overvoltage transient protected (Storm-proof).
- Dry-running protection by 3 configurations.
- Jammed impeller protection for long resting periods (only in AUTO mode).
- Alarm for detection of high frequency starts and/or air-break in pressure tank.
- Operation modes:
  - 1) TWO PROBES: Maximum and minimum levels.
  - 2) ONE PROBE: Only minimum level (\*).
  - 3) WITHOUT PROBES directly (\*).
 (\* In these two cases, reset in 15 minutes.
- Adjustable electronic relays for overload and underload. In both cases, alarm trip in 7 seconds.
- Remote control input for a 6-400V AC or contact.
- Air-break alarm contact output.
- All controls are low voltage.
- MANUAL-OFF-AUTO push buttons.
- VOLTAGE, ON/OFF, LOW WATER LEVEL, and OVERLOAD pilot lights.
- Alarm reset push button.
- High-protection and wide diameter range in cable glands.



- General Features
- Functionality
- Protections
- Equipment

### Specifications

Reference	V1M
Motor current	18 A AC3
Maximum power rating	2,2 kW
Supply Voltage	230 V AC, 50/60Hz, ±20% , Auto trigger-off after that+30%
Overload adjustment	0-18 A
Underload adjustment	0-18 A
Reset time (after low current shut-down)	15 min. (one probe and without probes)
Probe operating voltage	24V AC
Probe sensitivity	9 Kohm
Remote control connection	Contact or Voltage 6 to 400V AC/DC
Air-break output contact (Detection of high frequency starts)	AC1 : 2 A - 250V AC / AC11 : 1 A - 230V AC
Terminal blocks	4 mm <sup>2</sup> , PG11 (5,5 up to 10,5 mm <sup>2</sup> )
Fixing	Clevis wall mounting
Weight and Size	950 g, 150 x 200 x 78 mm
Protection	IP56
Operating temperature range	-10° C +55° C

# pump controllers

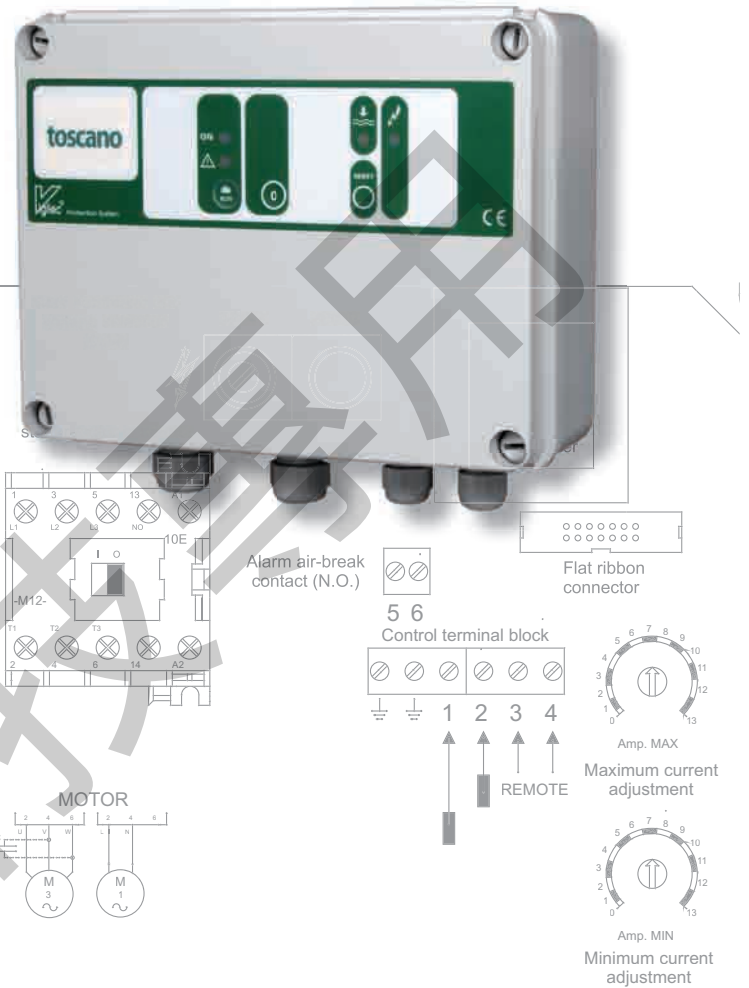
## General use<sup>(\*)</sup>

1 Three/single phase pump control up to 15 KW.  
(direct-on-line starting -DOL-), Multicontrol

### 1 Pump

# V1N

- An all-in-one control and protection unit for any pump.
- Multicontrol.
- Three/Single-phase, direct-on-line starting (DOL).
- Dual voltage supply: 230/400V AC.
- Phase failure protection.
- Pump wiring failure protection.
- Overvoltage protection.
- Overload protection.
- Underload protection.
- Connection failures protection warranted.
- Overvoltage transient protected (Storm-proof).
- Dry-running protection by 3 configurations.
- Protection against jammed impeller for long resting periods (only in AUTO mode).
- Alarm for detection of high frequency starts and/or air-break in pressure tank.
- Operation modes:
  - 1) TWO PROBES: Maximum and minimum levels.
  - 2) ONE PROBE: Only minimum level (\*).
  - 3) WITHOUT PROBES directly (\*).
 (\* In these two cases, reset in 15 minutes for V1N or adjustable reset for V10-PLUS.
- Adjustable electronic relays for overload and underload. In both cases, alarm trip in 7 seconds.
- Remote control input for a 6-400V AC/DC or contact.
- Air-break alarm contact output.
- All controls are low voltage.
- Power circuit breaker.
- MANUAL-OFF-AUTO push buttons.
- VOLTAGE, ON/OFF, LOW WATER LEVEL, and OVERLOAD pilot lights.
- Alarm reset push button.
- High-protection and wide diameter range in cable glands.



- General Features
- Protections
- Functionality
- Equipment

## Specifications

Reference	V1N	V1N-E	V1N-F	V1N-G	V10-PLUS
Motor current	12A AC3	16A AC3	23A AC3	30A AC3	12A AC3
Maximum power rating (400V AC)	5,5kW	7,5kW	11kW	15kW	5,5kW
Supply Voltage	230/400V AC, 50/60Hz, ±20% , Auto trigger-off after that +30%				
Overload adjustment	0 - 12A	0 - 16A	0 - 23A	0 - 30A	0 - 12A
Underload adjustment	0 - 12A	0 - 16A	0 - 23A	0 - 30A	0 - 12A
Reset time (after low current shut-down)	15 min. (1 probe or without probes)				Adjustable
Probe operating voltage	24V AC				
Probe sensitivity	9 Kohm				
Remote control connection	Contact or Voltage 6 to 400V AC/DC				
Air-break output contact (detection of high frequency starts)	AC1 : 2 A - 250V AC / AC11 : 1 A - 230V AC				
Terminal blocks	4 mm <sup>2</sup> , PG11 (5,5 hasta 10,5 mm <sup>2</sup> )				
Fixing	Clevis wall mounting				
Weight and Size	1.600 g, 195 x 225 x 95 (160) mm				
Protection	IP56				
Operating temperature range	-10° C +55° C				