



VARMECA

Regulation of centrifugal pumps



The MAESTRO of regulation



For all types of centrifugal pump

VARMECA is a complete range of motors with integrated inverter control for all types of pump applications including industrial, irrigation, construction and environmental:

- discharge or pressure pumps
- pumps for hot or cold water
- pumps for clear, acidic, contaminated liquids, etc
- monobloc pumps or with coupling
- · vertical or horizontal pumps





New installations, existing installations



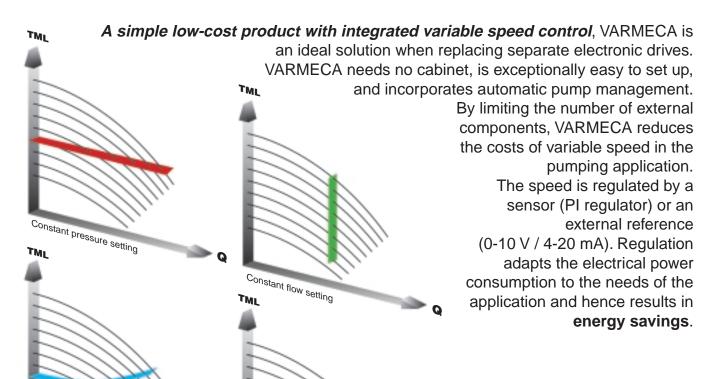
VARMECA: The variable speed solution for any new installation where process optimization is a key factor.

VARMECA: The option to integrate variable speed when upgrading an existing installation due to a design which ensures total interchangeability.





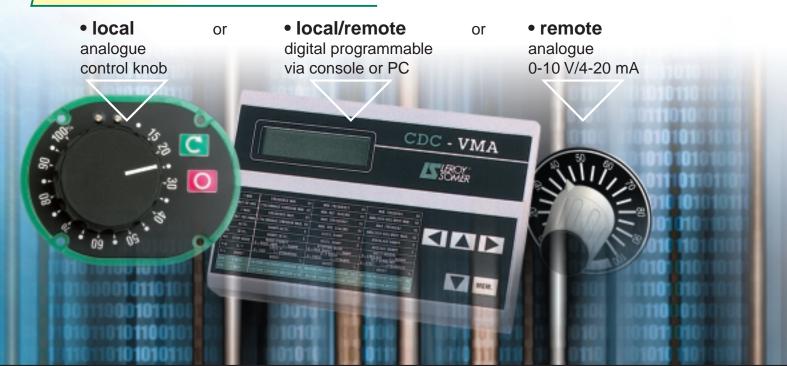
Intelligent management of centrifugal pumps



TML: total manometric lift **Q:** flow rate

FREEDOM TO CHOOSE THE TYPE OF SPEED REFERENCE

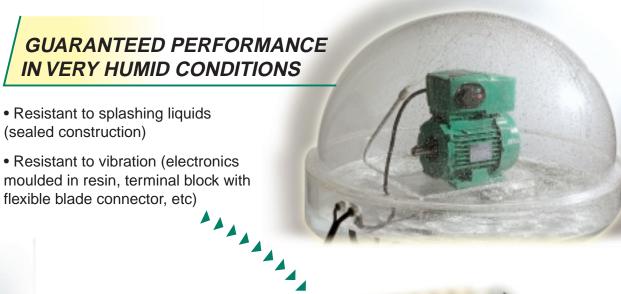
ng dependent on system characteristics





OPERATIONAL SAFETY OF THE INSTALLATION

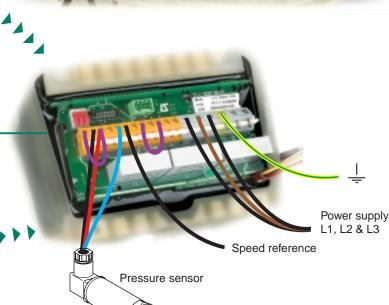
- Detection of draining, preventing the pump running when dry
- Prevention of water hammer due to controlled deceleration phases
- Auto-adaptation of the flow in the event of overload (avoids drive malfunctions)
- Can be programmed to stop in the event of a reduced flow (programmable standby operation)
- Indication of operating status (automatic operation, maximum flow rate, draining)



LEROY® SOMER

AS EASY TO CONNECT AS A SIMPLE MOTOR

The power supply requires just3 wires and a connection to earth.







General characteristics



Power supply 50/60 Hz

• Single-phase 200 V to 240 V $\pm 10\%$ 0.25 to 1.5 kW • Three-phase 200 V to 240 V $\pm 10\%$ 0.25 to 2.2 kW • Three-phase 380 V to 480 V $\pm 10\%$ 0.25 to 7.5 kW

Control mode	- Fixed or dynamic U/F ratio
Regulation	 Speed Pressure; flow rate; depth of water via integrated PI function (3% accuracy)
Control logic	- Positive (source 24 V DC / 30 mA integrated)
Speed reference	 Local: analogue via control knob Local/remote: digital via console or PC: up to 4 preset speeds Remote: analogue 0-10 V / 4-20 mA Min. and max. speed limiting
Pump-specific functions	- Selection of direction of rotation - T1: draining time delay (s) - P1: draining pressure (%) - T2: min. frequency time delay (s) - Display of PI reference (%) - Display of PI feedback (%) - Operating status - Digital reference (%) - Conversion coefficient (read directly from the sensor)
Ramps	- Adjustment from 0 to 60 sec.
Stopping modes	- Ramp control - Freewheel stopping
Sensor	- Integrated power supply 24 V DC / 30 mA - 0 / 10 V or 4-20 mA output
Approvals	C C C UL us
Communication	- Serial link: RS 232 - CDC VMA20 programming console (2-line LCD with text of 16 characters) - Fieldbus: PROFIBUS DP INTERBUS S CAN OPEN DEVICENET - PEGASE VMA20 programming software (PC compatible, Windows 95-98-NT or later)
Protection index	- IP 65

