



**Regulator for Servo-Motors**  
**VAREOTRON NLR 7000**  
Panel-mounting version (IP 20)



- **Designed for use with servo-controlled variable transformers**
- **Suitable for 3-phase motors rated up to 370W**
- **Can be used for closed-loop control with a voltage or current set-point**
- **Includes current and voltage measurement transducers**
- **Convenient touch-panel and LED display for accurate set-up of operating parameters**
- **Additional Start/Stop keys in the touch-panel for switching output power**
- **Memory storage for user settings**
- **Auto/manual control**
- **Inputs for limit switches**
- **Auto zero-homing function**
- **Voltage and current measurement outputs**

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Subject to technical modifications without prior notice

**VAREOTRON**



The NLR 7000 is a combined comparator and 3-phase servo-motor drive unit designed specifically for use with motorised variable-transformers in voltage regulating or stabilising systems. The required voltage level can be set internally through the digital control-panel or by using an external set-point source which can be a potentiometer or an analogue voltage or current signal. Motor voltage, frequency and response characteristics are set by using the digital control-panel.

The controller normally operates in automatic mode but it can be switched to manual for setting up purposes. It also has a zero-volts homing function for putting the system into a safe position, when required. Limit-switch inputs are also provided to ensure that the variable-transformer cannot be driven into its end-stops.

There are analogue outputs available, which provide signals for measuring the actual output voltage and current

Unit Type	NLR 7000
Input voltage with neutral wire connected	Single-phase, 230V +/- 20% Three-Phase, 3x 400V +/-20%
Input Frequency	50 / 60 Hz
Motor Power	370W
Motor Capacity	Adjustable 0...100 %
Current Set-point	10k Potentiometer / 0...10VDC / 0(4)...20mADC
Voltage Set-point	10k Potentiometer / 0...10VDC / 0(4)...20mADC
Actual Current	3 x 0...4,5VAC or 0...5VDC
Actual Voltage	3 x 0...440VAC (3x 254VAC against N) or 0...5VDC
Protection	IP 20
Operating Temperature	0...+45 °C
Storage Temperature	-10...+80 °C
Relative Humidity	80% without dew
Degree of Pollution	2
Mounting Altitude	1000 m with 0,5 % current de-rating for each additional 100m
Mounting Orientation	Horizontal, Vertical

