



Main

Range	VarPlus
Range of product	Varlogic N
Product name	VarLogic NR
Device short name	NR12
Product or component type	Power factor controller
Language	English French German Portuguese Spanish

Complementary

Number of step output contacts	12
[Us] rated supply voltage	380...415 V AC 50/60 Hz 220...240 V AC 50/60 Hz 110 V AC 50/60 Hz
Measurement current	0...5 A
Measurement voltage	110 V AC 50/60 Hz 220...240 V AC 50/60 Hz 380...415 V AC 50/60 Hz
Operating mode	Manual
Colour code	(RAL 7016)
Display type	Backlighted screen 65 x 21 mm
Type of measurement	Ambient temperature inside the cubicle Connected steps Cos φ History of alarms Network technical data : load and reactive currents, voltage, powers (S, P, Q) Switching cycles and connected time counter Total voltage harmonic distortion THD (U)
Type of alarms	Hunting (unstable regulation) / Action: message and alarm contact Low power factor / Action: message and alarm contact Overcompensation / Action: message and alarm contact Total harmonic distortion (> 7 %) / Action: message and alarm contact Low current (< 2.5 %) / Action: message High current (> 115 %) / Action: message Overcurrent (> 115 % I1) / Action: message and alarm contact Voltage low (< 80 % U _o within 1 s) / Action: message and alarm contact

Disclaimer: 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

Overvoltage (> 110 % U_o) / Action: message and alarm contact
 Abnormal cos φ (< 0.5 ind or 0.8 cap) / Action: message and alarm contact
 Overtemperature (θ ≥ θ_o (θ_o = 50 °C maximum)) / Action: message and alarm contact
 Overtemperature (θ ≥ θ_o - 15 °C) / Action: fan switch

Input type	Current input CT...X/5 A Insensitive to CT polarity Insensitive to phase rotation polarity Phase to neutral Phase to phase
Output type	Free outputs contacts current : 0.3 A 110 V DC Free outputs contacts current : 0.6 A 60 V DC Free outputs contacts current : 1 A 400 V AC 50/60 Hz Free outputs contacts current : 2 A 24 V DC Free outputs contacts current : 2 A 250 V AC 50/60 Hz Free outputs contacts current : 5 A 120 V AC 50/60 Hz
Settings operating mode	Automatic Manual
Type of setting	Choice of stepping programs : circular Choice of stepping programs : linear Choice of stepping programs : normal Choice of stepping programs : optimal Delay between 2 successive switch on the same step : 10...600 s Target cos phi : 0.85 inductive...0.9 capacitive Step configuration programming
Measurement accuracy	+/- 5 %
Time delay range	10...120 s 10...600 s for on reconnection
Step sequences	1.1.1.1.1.1 1.1.2.2.2.2 1.1.2.3.3.3 1.2.2.2.2.2 1.2.3.3.3.3 1.2.3.4.4.4 1.2.4.4.4.4 1.2.4.8.8.8
Mounting location	In cabinet Panel
Mounting support	35 mm DIN rail conforming to EN 50022
Height	150 mm
Width	150 mm
Depth	70 mm
Product weight	1 kg
Compatibility code	NR12

Environment

Standards	EN 61010-1 IEC 61010-1 IEC 61326
IP degree of protection	Rear face : IP20 Front face : IP41
Ambient air temperature for operation	0...60 °C
Ambient air temperature for storage	-20...60 °C
Climatic withstand	Ambient air temperature for storage : - 20...60 °C

Contractual warranty

Warranty period	18 months
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