Product data sheet

Specifications

varmeter controller - Varlogic - NRC12

52450

⚠ **Discontinued on:** 31 December 2016

⚠ Discontinued

Main

Range	VarPlus
Product name	VarLogic NR
Device short name	NRC12
Product or component type	Power factor controller
User language	English French Spanish Portuguese German

Complementary

Number of step output contacts	12
[Us] rated supply voltage	110 V AC 50/60 Hz 220...240 V AC 50/60 Hz 380...415 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 690 V AC 50/60 Hz
Operating mode	Manual
Number of quadrant operation for generator application	4
Device connection	Communication protocol: Modbus interface: RS485 Temperature external probe
Colour code	RAL 7016
Display type	Backlighted graphic screen 55 x 28 mm
Type of measurement	Total current harmonic distortion THD (I) History of alarms Ambient temperature inside the cubicle Network technical data : load and reactive currents, voltage, powers (S, P, Q) Voltage and current harmonic spectrum (orders 3, 5, 7, 11, 13) Connected steps Switching cycles and connected time counter Cos φ Step configuration (fixed step, auto, disconnected) Capacitor current overload Irms/I1 Step output status (capacitance loss monitoring) Total voltage harmonic distortion THD (U)
Type of alarms	Abnormal cos φ (< 0.5 ind or 0.8 cap) / Action: message and alarm contact Capacitor capacitance loss (-25 %) / Action: message and alarm contact

Capacitor current overload (Irms/I1) (> 1.5) / Action: message and alarm contact
High current (> 115 %) / Action: message
Low current (< 2.5 %) / Action: message
Overcurrent (> 115 % I1) / Action: message and alarm contact
Overtemperature (θ >= θo - 15 °C) / Action: fan switch
Overtemperature (θ >= θo (θo = 50 °C maximum)) / Action: message and alarm contact
Overvoltage (> 110 % Uo) / Action: message and alarm contact
Total harmonic distortion (> 7 %) / Action: message and alarm contact
Under voltage (5 % x Uo) / Action: message
Voltage low (< 80 % Uo within 1 s) / Action: message and alarm contact
Hunting (unstable regulation) / Action: message and alarm contact
Low power factor / Action: message and alarm contact
Overcompensation / Action: message and alarm contact

Input type	Insensitive to CT polarity Phase to neutral Insensitive to phase rotation polarity Current input CT...X/5 A and X/1 A Phase to phase
Output type	Free outputs contacts current: 1 A 400 V AC 50/60 Hz Free outputs contacts current: 2 A 250 V AC 50/60 Hz Free outputs contacts current: 5 A 120 V AC 50/60 Hz Free outputs contacts current: 0.3 A 110 V DC Free outputs contacts current: 0.6 A 60 V DC Free outputs contacts current: 2 A 24 V DC
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...900 s Step configuration programming: auto Step configuration programming: disconnected Step configuration programming: fixed Target cos phi: 0.85 inductive...0.9 capacitive Target cos phi: dual cos φ
Measurement accuracy	+/- 2 %
Time delay range	10...180 s 10...900 s (on reconnection)
Step sequences	Personalized
Mounting location	In cabinet Panel
Mounting support	35 mm DIN rail conforming to EN 50022
Height	150 mm
Width	150 mm
Depth	80 mm
Net weight	1 kg

Environment

Standards	IEC 61326 IEC 61010-1 EN 61010-1
IP degree of protection	Front face: IP41 Rear face: IP20
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

Packing Units

Package 1 Weight	1.300 kg
Package 1 Height	1.000 dm
Package 1 Width	1.850 dm

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Package 1 Length	2.300 dm

Contractual warranty

Warranty	18 months

Recommended replacement(s)

52450 is replaced by:

1x   Power Factor controller, PowerLogic PFC Controller, VPL 12

VPL12N