Bảng thông số sản phẩm

Thông số kỹ thuật

Power Factor controller, PowerLogic PFC Controller, VPL 6

VPL06N

Main

Range	PowerLogic
Product name	PowerLogic PFC Controller
Device short name	VPL6
product or component type	Power factor controller

Complementary

Number of step output contacts	6
[Us] rated supply voltage	90...550 V AC <= 999 kV AC with external VT
Measurement current	0…5 A
Measurement voltage	90…550 V AC 50/60 Hz
Operating mode	Manual or automatic
Number of quadrant operation for generator application	4
Device connection	Communication protocol: Modbus interface: RS485
Input function	Switch: 1 x dry contact
Colour code	Front: dark grey RAL 7016
Display type	Backlit LCD
display size	56 x 25 mm
Function available	Automatic detection Advanced programming (expert) Manual programming Any step sequence Automatic initialisation
Metering type	Power factor and displacement PF (signed, four quadrant) Total current harmonic distortion THD (I) Power factor average over lifetime Temperature maximum Phase current I1, I2, I3 RMS on load Active power P, P1, P2, P3 on load Reactive power Q, Q1, Q2, Q3 on load Apparent power S, S1, S2, S3 on load Voltage U21, U32, U13, V1, V2, V3 on load
type of measurement	Ambient temperature inside the cubicle Tan φ Individual voltage harmonic Cos φ Operating time Power factor Capacitor current overload Irms/I1

Miễn trừ trách nhiệm: Tài liệu này không nhằm thay thế và không được sử dụng để xác định tính phù hợp hoặc độ tin cậy của các sản phẩm này cho các ứng dụng người dùng cụ thể

Information displayed	Number of switching cycles per step Remaining step capacity in % Individual step size in kVAr
Type of alarms	Step power loss (< 75 %) / Action: message and alarm contact + step blocked Step faulty / Action: message and alarm contact + step blocked High current (> 6 A CT) / Action: message and alarm contact Hunting (unstable regulation) / Action: message and alarm contact + step blocked Low current (< 15 mA CT) / Action: message and alarm contact Overcompensation / Action: message and alarm contact Capacitor current overload (Irms/I1) (> 130 % I1) / Action: message and alarm contact + step switched off Overtemperature (50 °C) / Action: message and alarm contact + step switched off Overtemperature (30 °C) / Action: fan switch Overvoltage (+/- 10 %) / Action: message and alarm contact + control stopped Total harmonic distortion (> 7 %) / Action: message and alarm contact + step switched off
Data recording	5 alarms
Operational Hours alarm	100000 h without maintenance
Operational counter alarm	65000 cycles without maintenance
input type	Insensitive to phase rotation polarity Insensitive to CT polarity Phase to neutral Current input CT...X/5 A and X/1 A Phase to phase
Output type	Control relay: 0.2 A 110 V DC Control relay: 1 A 48 V DC Control relay: 2 A 400 V AC 50/60 Hz Control relay: 1 A 24 V DC Control relay: 5 A 250 V AC 50/60 Hz Control relay: 5 A 120 V AC 50/60 Hz Fan: 5 A 250 V AC 50/60 Hz Fan: 1 A 48 V DC Alarm relay: 5 A 250 V AC 50/60 Hz Alarm relay: 1 A 48 V DC
Maximum at the common terminal	10 A
settings operating mode	Manual Automatic
Type of setting	Choice of stepping programs: auto Choice of stepping programs: LIFO Choice of stepping programs: linear Delay between 2 successive switch on the same step: 5...1200 s Step configuration programming: auto Step configuration programming: off Step configuration programming: fixed Target cos phi: 0.7 inductive...0.7 capacitive Target cos phi: dual cos φ
Measurement accuracy	Voltage +/- 1 % Current +/- 1 % Frequency +/- 1 % Energy (P,Q,S) +/- 2 % Cos φ +/- 2 % Total voltage harmonic distortion THD (U) +/- 2 % Individual voltage harmonic +/- 3 % Temperature +/- 3 °C
Time delay range	1...6500 s (on reconnection) 1...6500 s (on response)
Provided equipment	User manual
mounting mode	Flush-mounted
Mounting support	Panel - thickness: 1…3 mm
mounting location	In cabinet
Cut-out dimensions	138 x 138 mm
Height	144 mm

Width	144 mm
Depth	58 mm
net weight	0.6 kg

Environment

Standards	IEC 61000-6-2 EN 61010-1 IEC 61000-6-4 IEC 61326-1 UL 61010-1
Product certifications	EAC NRTL cNRTL CE
IP degree of protection	Front face: IP41 Rear face: IP20
Operating altitude	<= 2000 m
Ambient air temperature for operation	-20…60 °C
Ambient air temperature for storage	-40…85 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.200 cm
Package 1 Width	17.800 cm
Package 1 Length	18.400 cm
Package 1 Weight	696.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	8
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.050 kg
Unit Type of Package 3	P06
Number of Units in Package 3	64
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	60.348 kg

Bền vững

Nhãn **Green Premium™** là cam kết của Schneider Electric trong việc cung cấp sản phẩm với hiệu suất môi trường tốt nhất. Green Premium cam kết tuân thủ các quy định mới nhất, minh bạch về tác động môi trường, cũng như các sản phẩm tuần hoàn và CO_2 thấp.

Hướng dẫn đánh giá tính bền vững của sản phẩm là tài liệu kỹ thuật phổ thông giúp làm rõ các tiêu chuẩn nhãn sinh thái toàn cầu và cách diễn giải việc khai báo môi trường.

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Hướng dẫn đánh giá về sự bền vững của sản phẩm >

Minh bạch

RoHS/REACh

Hiệu suất sức khoẻ

Reach Free Of Svhc	
Mercury Free	
Rohs Exemption Information	Yes

Chứng nhận & Tiêu chuẩn

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins