

Control unit

SENEC.PowerBase

Technical data sheet



Valid for	SENEC.PowerBase
Serial number	B1A1-XXXXXXXX-XXXX-XX
Valid in	Germany
Document version	1.0
Publication date	17/Jun/2024
Document number	TD220-088.10_en-DEU

SENEC.PowerBase

General technical data

Processor	Dual Core Cortex®-A53, 1.2 GHz	
Working memory	1 GB LPDDR4	
Flash memory	8 GB eMMC	
Operating system	Yocto Linux	
Timer	Yes, buffer time 6 hours	
Dimensions (H × W × D)	88 mm x 70 mm x 65 mm	
Installation width (incl. Shelly Pro 2 & Shelly Pro 4PM)	8 HP	
Weight	0.3 kg	
Communication interfaces (technical partner)	LAN (2x) und RS485 (2x)	
Ingress protection	IP2X	
Protection class	IEC 61010-1	II
Over voltage category	IEC 61010-2-030	300 V CAT III
Housing material	Glass fibre reinforced polyamide	
Pollution degree	2	
Permissible ambient temperature	Optimal operation	-25 °C to +45 °C
	With $\leq I_n$ of 32 A	-25 °C to +55 °C
	During transport/storage	-25 °C to +70 °C
Relative humidity	Up to 75 % on an annual average, up to 95 % on up to 30 days a year	
Max. Operating altitude	2,000 m above standard elevation zero	

AC performance data

Voltage $U_{AC/Backup, nom}$	L1/N: 110 V/230 V	
Frequency $f_{AC/Backup, nom}$	50/60 Hz	
Max. Current $I_{AC, rated}$	5 A	
Absorbed power P_{max}	5 W	
Rated voltage	max. 230/400 V AC	
Maximum current I_N per line conductor	63 A	
Wake-up current	< 25 mA	
Self-consumption (device as a whole)	< 5 W	

Connection

Line cross-section (mechanical)	1.5 to 25 mm ²	
Tightening torque for connecting terminals	2.0 Nm	

SENEC.PowerBase

LAN port

Number	2
Type	10 Mbit / 100 Mbit
Connection to CPU	Integrated switch with VLAN support
Max. cable length	100 m (CAT 5)

RS485 port

Type	Half-duplex, non-isolated
Bit rate	9,600 to 115,200 kBaud
Termination	No
Fail-safe circuitry	Yes
Max. cable length	10 m (Twisted Pair)
Supply	5 V, 280 mA, short / overload protection

Directives & standards

CE marking & EU compliance	Low Voltage Directive 2014/35/EU:	IEC 61010-1 IEC 61010-1:2010/AMD1:2016 EN 61010-1:2010/A1:2019 IEC EN 61010-2-030:2021+A11:2021 IEC 61010-2-201:2017 EN 61010-2-201:2018
	EMC Directive 2014/30/EU:	EN 61326-1:2013
	RoHS Directive 2011/65/EU:	Table 2 (industry) EN IEC 63000:2018

The SENECHome E4 – 3ph 8 is a smart, connected product. In order to use the product, you need a permanent internet connection and registration at mein-senec.de, including the creation of a SENECHome user account.

The corresponding terms and conditions of service apply to the use of the online service mein-senec.de. These can be downloaded from www.senec.com/de/unternehmen/download at **Mein-SENECHome/SENECHome Online-Dienste**.

All statements without guarantee. Errors, typographical mistakes and changes are reserved. Illustrations may differ from the delivered product.

Imprint

Original in German.

All rights reserved.

All statements without guarantee. Errors, typographical mistakes and changes are reserved. Illustrations may differ from the delivered product.

© Copyright 2024 – All contents, in particular texts, photos and graphic designs of this document are subject to copyright protection. All rights, including reproduction, publication, editing and translation, are reserved:

SENEC GmbH
Wittenberger Straße 15
04129 Leipzig
Germany

Telephone: +49 341 98 982 400
E-mail: info@senec.com
Internet: www.senec.com

SENEC is a subsidiary of EnBW Energie Baden-Württemberg AG.