

Art.Nr. 10015859

Battery protection | BAT BREAKER-3xAccu_1xCharger_600VDC_HVS_HVM_1.0

enwitec electronic GmbH
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Designation	Battery protection Bat Breaker - High Voltage	
Application	Battery protection for the BYD „Premium“ energy storage system - type HVS or HVM	
Number and type of battery charger / inverter	Max. 1 x battery charger	<ul style="list-style-type: none"> ▪ Fronius SYMO GEN 24 Plus (all types) ▪ Fronius SYMO HYBRID (all types) ▪ Kostal BI 5.5/26 - 10/26 ▪ Sungrow SH5.0RT / SH6.0RT / SH8.0RT / SH10RT ▪ GoodWe GW###-ET / -BT / -EH / -BH (max. performance 10 kW) ▪ SMA Sunny Tripower Smart Energy 5.0/6.0/8.0/10.0
Number and type of energy storage units	Max. 3 x energy storage units	<ul style="list-style-type: none"> ▪ BYD „PREMIUM“ - type HVS or HVM
Allgemeine Hinweis	<p>ATTENTION: The max. recommended continuous charging/discharging current of 26 A should not be exceeded! If the battery protection is used for systems other than those described here, the suitability of the circuit breakers used (nominal value, tripping characteristic) is not guaranteed! In this case, consult the system manufacturer and/or the manufacturer of the battery charger/inverter!</p>	

All values in [mm]

Dimensions

Fastening points

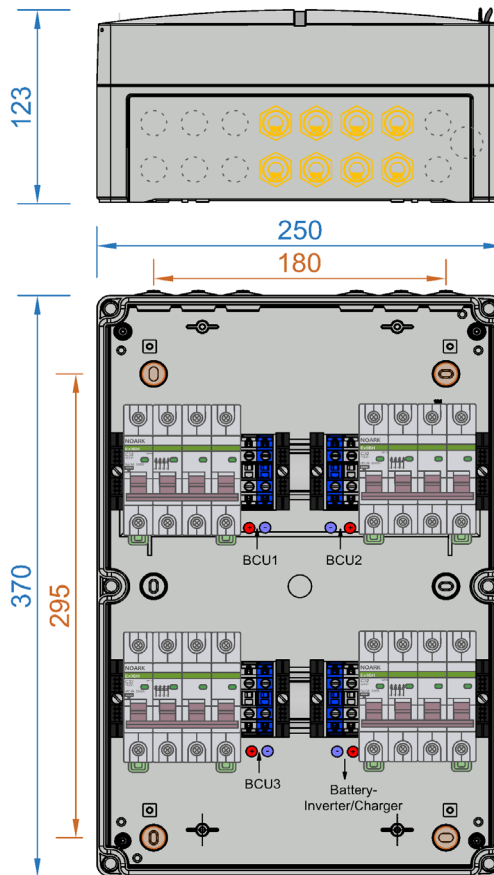
„blue“
„orange“

Inner construction as well as choice of components may differ within the variants!

Minimum Distances

top	300
bottom	300
lateral	200
front	800

Cable support must be provided on site!



SCOPE OF DELIVERY

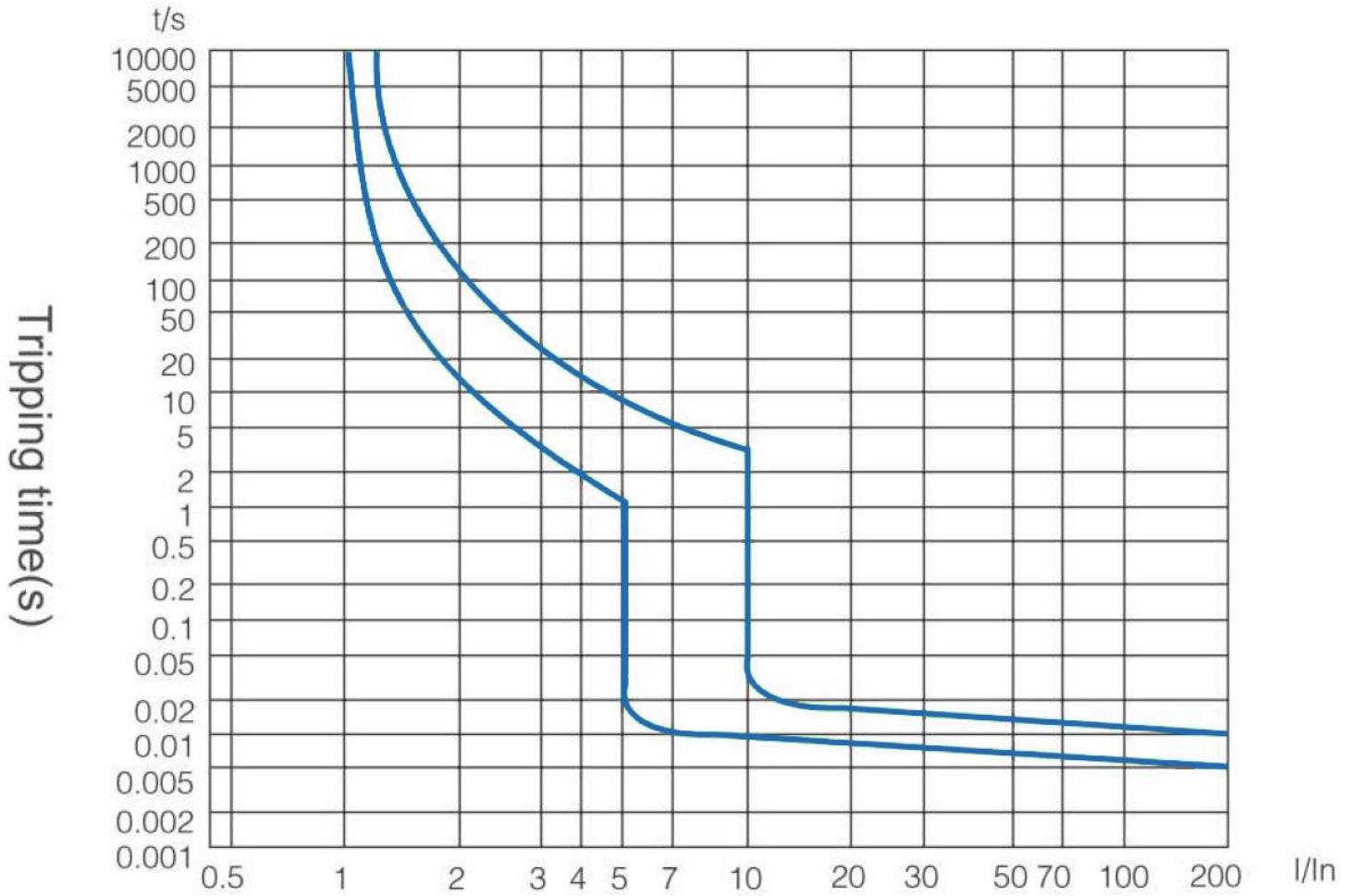
Quantity	Designation	Quantity	Designation
1	General installation instructions	8	Cable gland M16 incl. locknut

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CIRCUIT BREAKER CHARACTERISTIC - „C” CHARACTERISTIC



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TECHNICAL DATA

NOMINAL VALUES

• applicable / - not applicable

Rated voltage	[VDC]	600
Rated current / Peak output current	[A]	compatible with BYD „Premium“ HVS/HVM
Rated current circuit breaker - charger	[A]	32 per potenzial
Recommended continuous operating current	[A]	26 per potenzial
Circuit breaker tripping characteristics - charger		C
Rated current circuit breaker - battery	[A]	32 per potenzial
Recommended continuous operating current	[A]	26 per potenzial
Circuit breaker tripping characteristics - battery		C
Switchable maximum short-circuit current	[kA]	≥6

CONNECTION ENERGY STORAGE

Number of possible batteries (parallel)		3
Max. cable length		see manufacturer's instructions
<u>Cable entry</u>		
Cable glands (EN 62444)		M16
Clamping range (from - to)	[Ømm]	4,5 - 10
<u>Connections</u>		
Connection type		screw terminals
Max. wire cross-section (Cu)	[mm ²]	0,5 - 10
Stripping length	[mm]	13
Conductor material and type		Copper, finely stranded with ferrule
Tightening torque	[Nm]	1,2

CONNECTION CHARGER

Number of possible chargers / inverters		1
Max. cable length		see manufacturer's instructions
<u>Cable entry</u>		
Cable glands (EN 62444)		M16
Clamping range (from - to)	[Ømm]	4,5 - 10
<u>Connections</u>		
Connection type		screw terminals
Max. wire cross-section (Cu)	[mm ²]	0,5 - 10
Stripping length	[mm]	13
Wire Material		Copper, finely stranded with ferrule
Tightening torque	[Nm]	1,2

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TECHNICAL DATA

GENERAL DATA

• applicable / - not applicable

Dimensions WxHxD (without cable glands)	[mm]	250 x 370 x 123
Weight, approx.	[kg]	5
Operating temperature range	[°C]	0...+35
Temperature - transport/storageg (24h 70°C)	[°C]	-25...+55
Humidity - condensing allowed	•/-	-
Humidity - permitted range	[%]	5...85
Max. altitude above sea level	[m]	2000
Protection class IP (EN 60529)		65
Outdoor suitability (protected area)	•/-	-
Protection against electric shock (EN 61140)		II
Case material		Polycarbonat
RoHS-conformity (2011/65/EU)	•/-	•
Case colour		similar RAL 7035
Cover		transparent
Mounting method		wall mounting
Locking system		hinged cover

MISCELLANEOUS

Customs tariff number		85371098
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EC DECLARATION OF CONFORMITY

The product, designation:	BAT BREAKER-3xAccu_1xCharger_600VDC_HVS_HVM_1.0
article number	10015859
manufacturer:	enwitec electronic GmbH Scherrwies 2 84329 Rogglfing
description:	Battery protection for PV energy storage systems

to which this declaration relates, is in conformity to the following standards or normative documents:

EN 61439-1	Low-voltage switchgear and controlgear assemblies
EN 61439-2	Power switchgear and controlgear assemblies
VDE-AR-E 2510-2	Stationary electrical energy storage systems

and is in accordance with the provisions of the following EC-directives:

Low-voltage directive 2014/35/EU
Restriction of Hazardous Substances Directive 2011/65/EU (RoHS)

Year of affixing CE-marking:	2021
Date of issue:	2021-02-24

enwitec electronic GmbH



Name / Signature

Johann Wimmer
CEO