

# DATA SHEET

## ITEM NO. 10019871

### Battery fuse

### BAT BREAKER-3xAccu1xCharg.1000VDC 50A BYD(HVB/HVM)

Designation	Battery fuse BAT BREAKER - High Voltage	
Application	Combiner box for energy storage system BYD – Type „PREMIUM“ HVM, HVM+ or HVB	
Number and type of battery chargers/ inverters	Max. 1 x battery charger	
Number and type of energy storage devices	Max. 3 x energy storage units	• BYD – Type "PREMIUM" HVM, HVM+ or HVB
General information	<p><b>ATTENTION: The maximum recommended continuous charging/discharging current of 50 A must not be exceeded!</b></p> <p>If the battery protection is used for systems other than those described here, the suitability of the circuit breakers used (nominal value, tripping characteristic) cannot be guaranteed!</p> <p>In this case, consult the system manufacturer and/or the manufacturer of the battery charger/inverter!</p>	

All values in [mm]

dimensions

attachment points

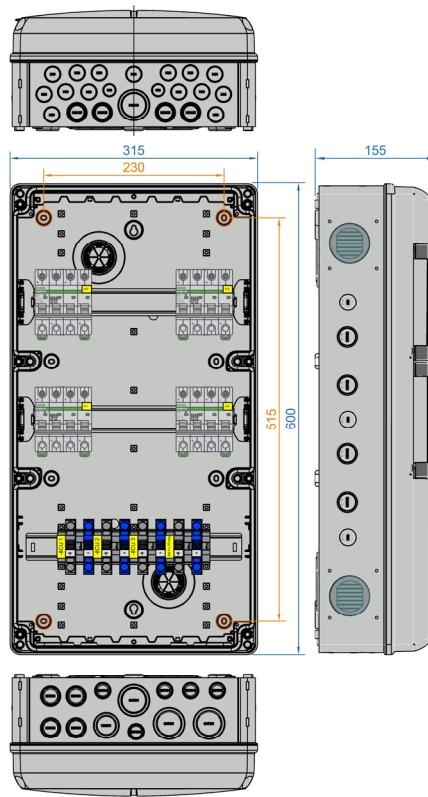
„blue“

„orange“

### Minimum distances

above	200
below	200
lateral	200
in front	800

Internal layout and components may vary depending on the variant!



### SCOPE OF DELIVERY

Number	Designation	Number	Designation
1	Bat Breaker	1	Circuit diagram
1	Manual	8	Cable gland M20 incl. lock nut
1	Supplement: Circuit breaker	1 set	Cover caps for fixing screws

Status: (g)

The text and illustrations correspond to the technical status at the time of printing; changes are reserved.  
Despite careful processing, all information is provided without guarantee. Liability is excluded.

[www.enwitec.eu](http://www.enwitec.eu)

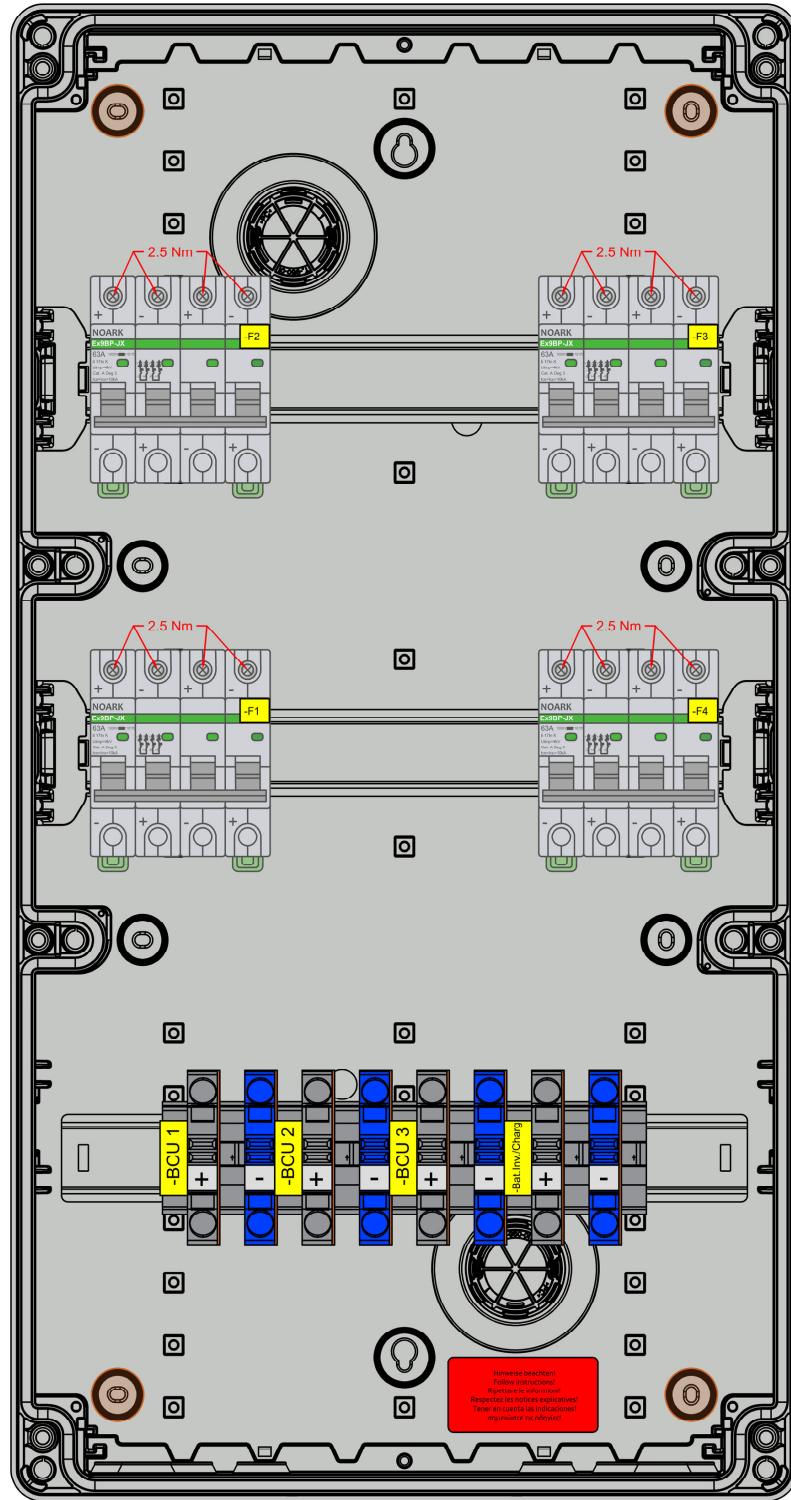
# DATA SHEET

ITEM NO. 10019871

Battery fuse

BAT BREAKER-3xAccu1xCharg.1000VDC 50A BYD(HVB/HVM)

 TORQUES



Status: (g)

The text and illustrations correspond to the technical status at the time of printing; changes are reserved.  
Despite careful processing, all information is provided without guarantee. Liability is excluded.

[www.enwitec.eu](http://www.enwitec.eu)

# DATA SHEET

ITEM NO. 10019871

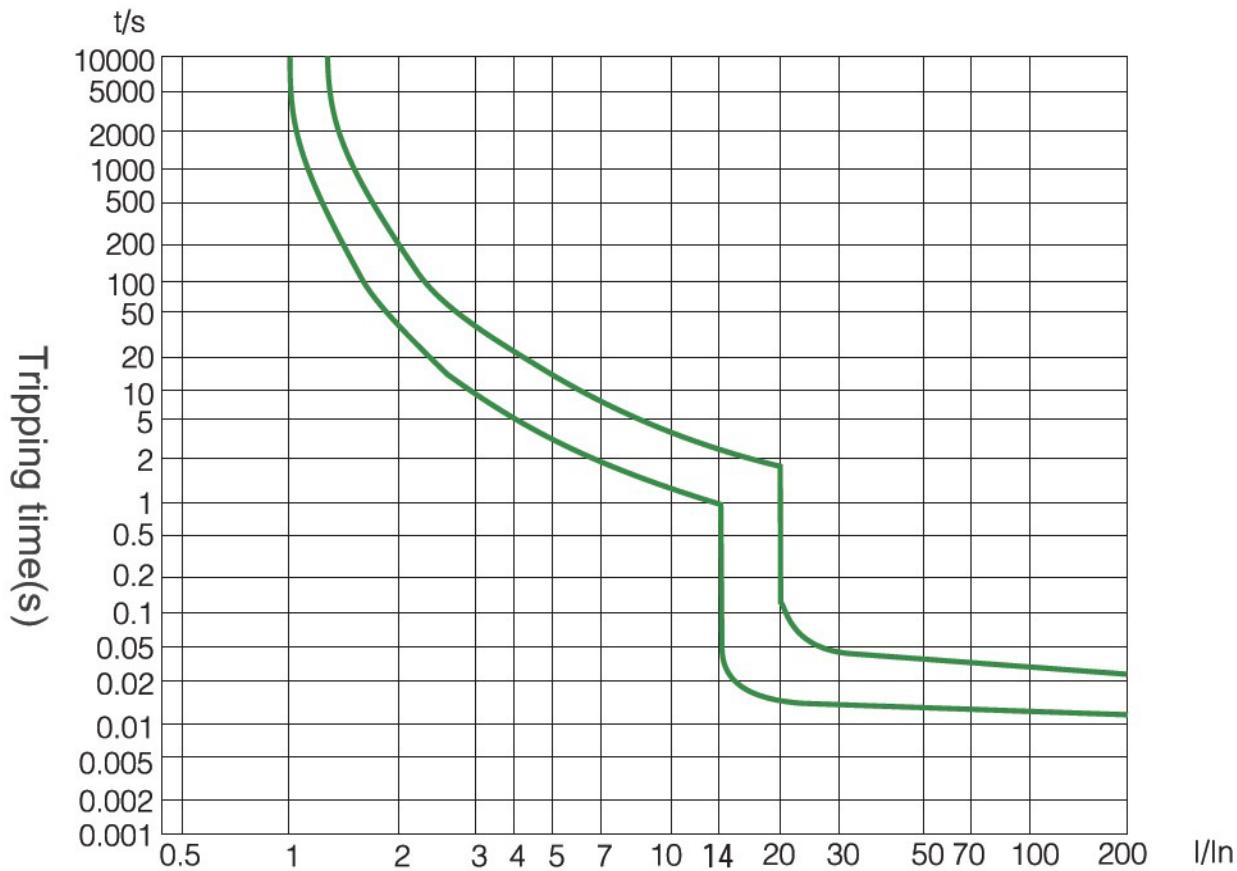
Battery fuse

BAT BREAKER-3xAccu1xCharg.1000VDC 50A BYD(HVB/HVM)

**enwitec**  
greenLink Group

 Scherrwies 2 | 84329 Wurmannsquick  
 info@enwitec.eu

## CURVE PROTECTION SWITCH - "K" CHARACTERISTIC



Status: (g)

The text and illustrations correspond to the technical status at the time of printing; changes are reserved.  
Despite careful processing, all information is provided without guarantee. Liability is excluded.

[www.enwitec.eu](http://www.enwitec.eu)

# DATA SHEET

ITEM NO. 10019871

Battery fuse

BAT BREAKER-3xAccu1xCharg.1000VDC 50A BYD(HVB/HVM)

## TECHNICAL DATA

NOMINAL VALUES		• applicable / - not applicable
Rated voltage	[VDC]	1000
Rated current/peak output current	[A]	compatible with BYD Premium HVM, HVM+, HVB
Rated current circuit breaker - charger	[A]	3 x K63
Recommended continuous operating current	[A]	50
Trip characteristics Circuit breaker - Charger		K
Rated current circuit breaker - battery	[A]	1 x K63
Recommended continuous operating current	[A]	50
Trip characteristics Circuit breaker - Battery		K
Switchable maximum short-circuit current	[kA]	≤10

CONNECTION TO ENERGY STORAGE		
Number of possible batteries (in parallel)		3
Maximum cable length		see manufacturer's instructions
Line introductions		
Screw connections (EN 62444)		M20
Clamping range (from - to)	[mm]	7 - 13
Connections		
Connection type		spring-loaded terminal
Stripping length	[mm]	18 - 20
Tightening torque	[Nm]	-
Cu - fine-stranded with wire end sleeve	[mm <sup>2</sup> ]	0.5 - 16
Cu - fine-grained	[mm <sup>2</sup> ]	0.5 - 25
Cu - single-stranded	[mm <sup>2</sup> ]	0.5 - 16

CONNECTION CHARGER		
Number of battery chargers/inverters		1
Maximum cable length		see manufacturer's instructions
Line introductions		
Screw connections (EN 62444)		M20
Clamping range (from - to)	[mm]	7 - 13
Connections		
Connection type		spring-loaded terminal
Stripping length	[mm]	18 - 20
Tightening torque	[Nm]	-
Cu - fine-stranded with wire end ferrule	[mm <sup>2</sup> ]	0.5 - 16
Cu - fine-grained	[mm <sup>2</sup> ]	0.5 - 25
Cu - single-wire or multi-wire	[mm <sup>2</sup> ]	0.5 - 16

The text and illustrations correspond to the technical status at the time of printing; changes are reserved.  
Despite careful processing, all information is provided without guarantee. Liability is excluded.

# DATA SHEET

ITEM NO. 10019871

Battery fuse

BAT BREAKER-3xAccu1xCharg.1000VDC 50A BYD(HVB/HVM)

## TECHNICAL DATA

GENERAL		
Dimensions WxHxD (without screw connections)	[mm]	315 x 600 x 155
Weight, approx.	[kg]	6.5
Operating temperature range	[°C]	-20...+35
Temperature - Transport/Storage (24 hours at 70°C)	[°C]	-20...+55
Humidity - condensation permitted		-
Humidity - permissible range	[%]	5...70
Degree of contamination		2
Max. installation height above sea level	[m]	2000
Protection class IP (EN 60529)		30
Suitability for outdoor use (protected area)		-
Protection class (EN 61140)		II
Housing material		Polyester (GRP)
RoHS compliant (2011/65/EU)		•
Housing colour		RAL 7035
Type of installation		Wall mounting
Closure type		Hinged lid

## MISCELLANEOUS

Tariff number	85371098
---------------	----------

Status: (g)

The text and illustrations correspond to the technical status at the time of printing; changes are reserved.  
Despite careful processing, all information is provided without guarantee. Liability is excluded.

[www.enwitec.eu](http://www.enwitec.eu)