

DATA SHEET

ITEM NO. 10019871

Battery fuse

BAT BREAKER-3xAccu1xCharg.600VDC 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	ATTENTION: The maximum permissible continuous charging/discharging current of 50 A must not be exceeded! The battery protection system must only be used with the specified BYD battery storage units listed above. Following the first short circuit, the DC-MCB (circuit breaker) must be replaced by a qualified electrician!

All values in [mm]

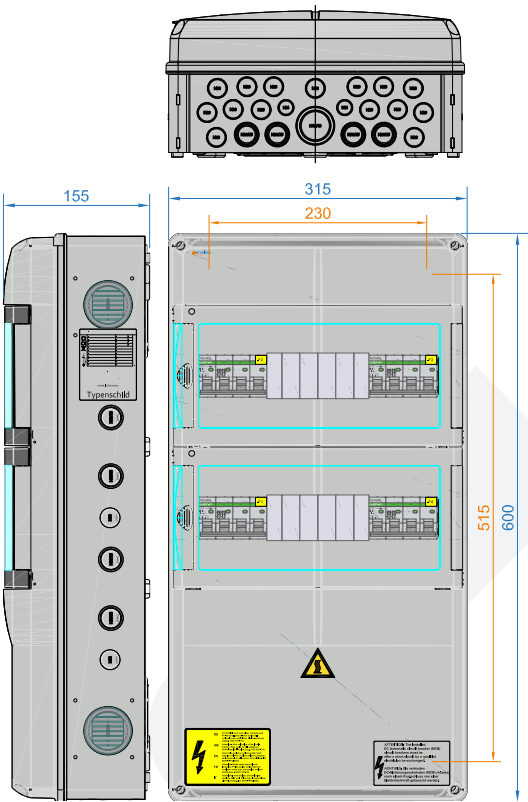
dimensions

attachment points

„blue“
„orange“

Minimum distances

above	200
below	200
lateral	200
in front	800



SCOPE OF DELIVERY

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

Status: (h)
The text and illustrations correspond to the technical status at the time of printing; changes are reserved.
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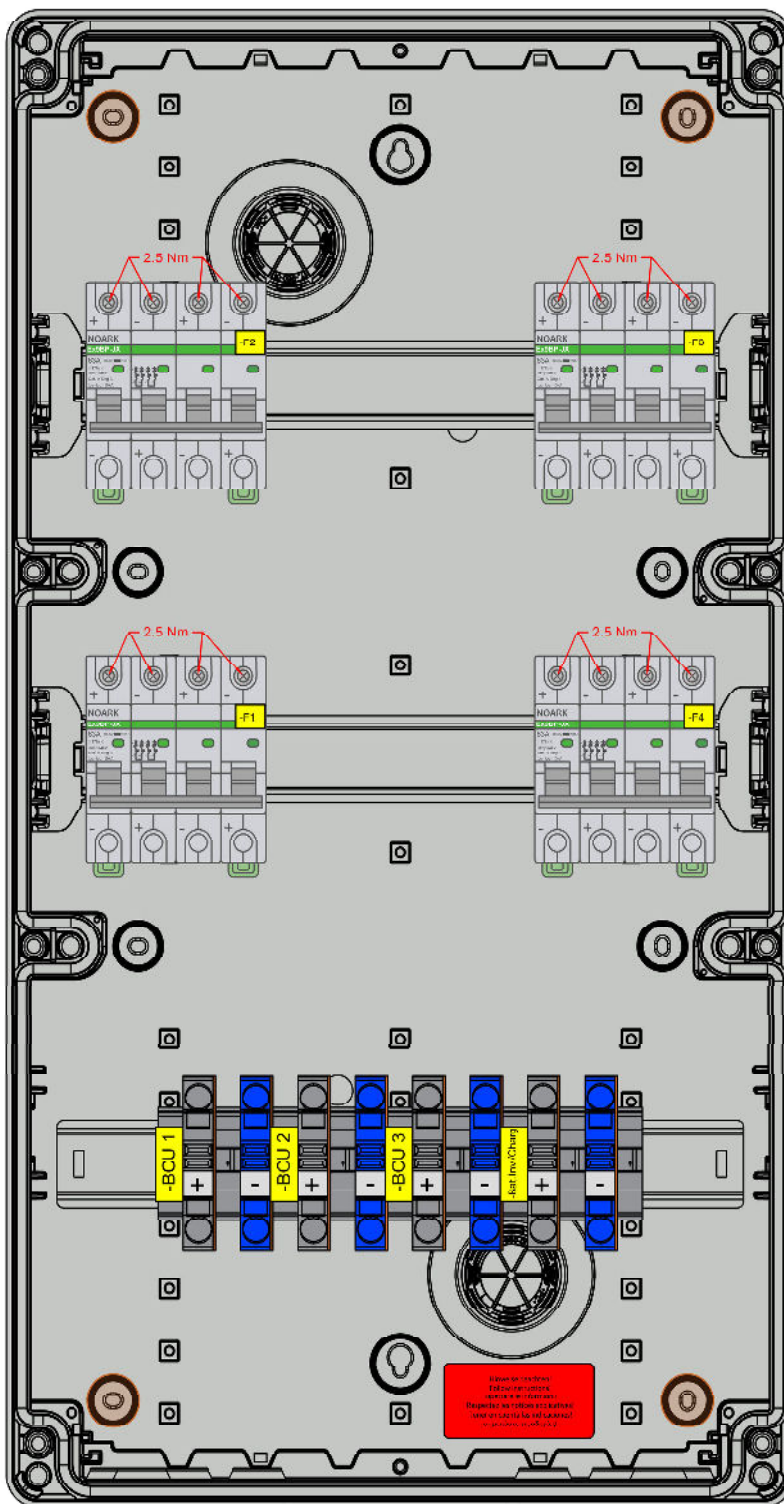
BAT BREAKER-3xAccu1xCharg.600VDC 50A BYD(HVB/HVM)



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The internal layout and components may vary depending on the model!



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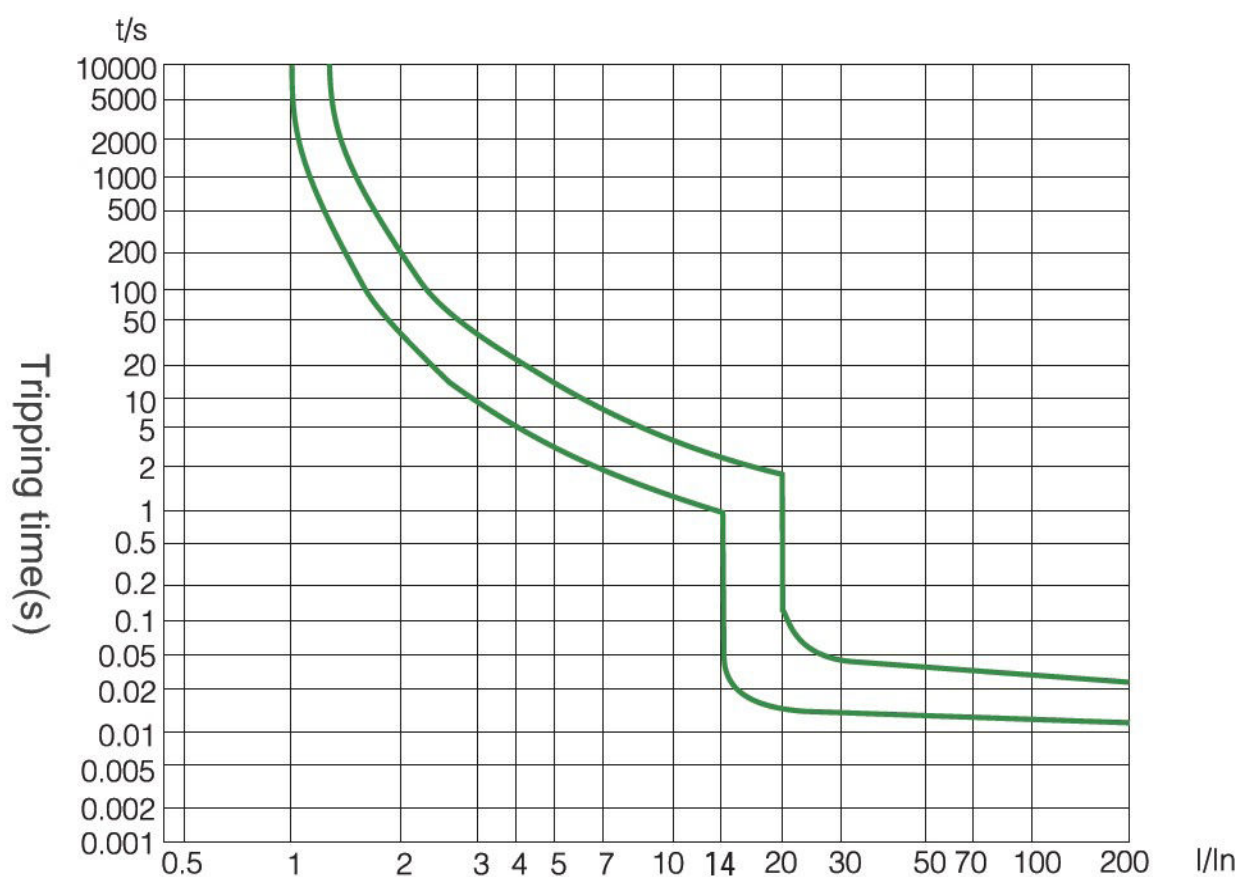
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CURVE PROTECTION SWITCH - "K" CHARACTERISTIC



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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 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

CONNECTION TO ENERGY STORAGE		
Number of possible batteries (in parallel)		3
Maximum cable length		see manufacturer's instructions
<u>Line introductions</u>		
Screw connections		M20
Clamping range (from - to)	[mm]	7 - 13
<u>Connections</u>		
Connection type		spring-loaded terminal
Stripping length	[mm]	18 - 20
Tightening torque	[Nm]	-
Cu - fine-stranded with wire end sleeve	[mm²]	0.5 - 16
Cu - fine-grained	[mm²]	0.5 - 25
Cu - single-stranded	[mm²]	0.5 - 16

CONNECTION CHARGER		
Number of battery chargers/inverters		1
Maximum cable length		see manufacturer's instructions
<u>Line introductions</u>		
Screw connections		M20
Clamping range (from - to)	[mm]	7 - 13
<u>Connections</u>		
Connection type		spring-loaded terminal
Stripping length	[mm]	18 - 20
Tightening torque	[Nm]	-
Cu - fine-stranded with wire end ferrule	[mm²]	0.5 - 16
Cu - fine-grained	[mm²]	0.5 - 25
Cu - single-wire or multi-wire	[mm²]	0.5 - 16

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TECHNICAL DATA

GENERAL	• applicable / - not applicable	
Dimensions WxHxD (without screw connections)	[mm]	315 x 600 x 155
Weight, approx.	[kg]	7
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

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