

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	ATTENTION: The maximum recommended continuous charging/discharging current of 50 A must 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) cannot be guaranteed! In this case, consult the system manufacturer and/or the manufacturer of the battery charger/inverter!		

All values in [mm]

dimensions

attachment points

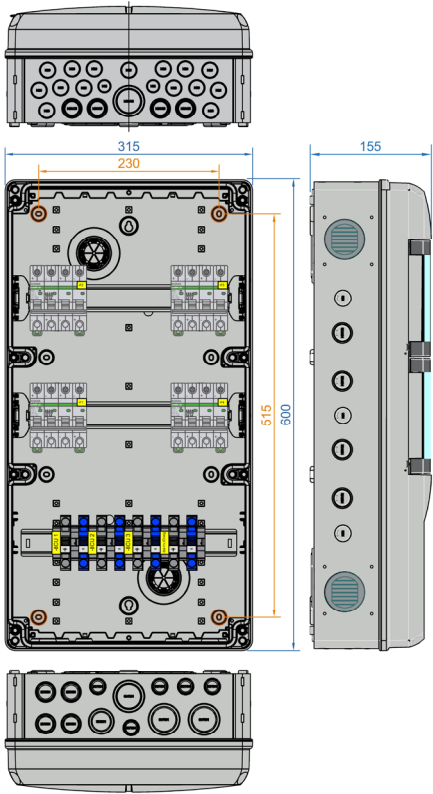
„blue“

„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
1	Bat Breaker
1	Manual
1	Supplement: Circuit breaker

Number	Designation
1	Circuit diagram
8	Cable gland M20 incl. lock nut
1 set	Cover caps for fixing screws

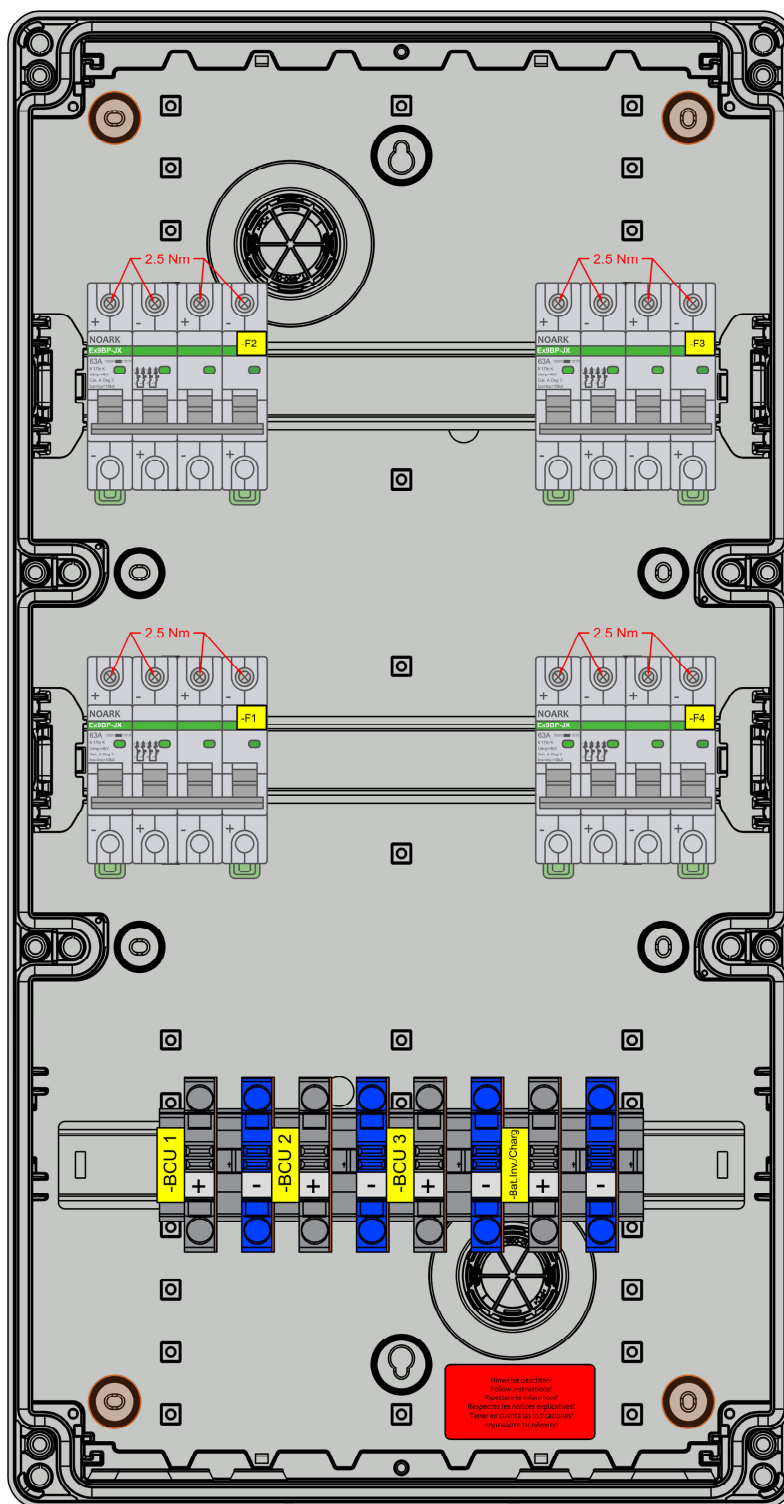
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10019871_GB_DAT_BAT_BREAKER-3xAccu1xCharg.1000VDC 50A BYD(HVB_HVM) (g)

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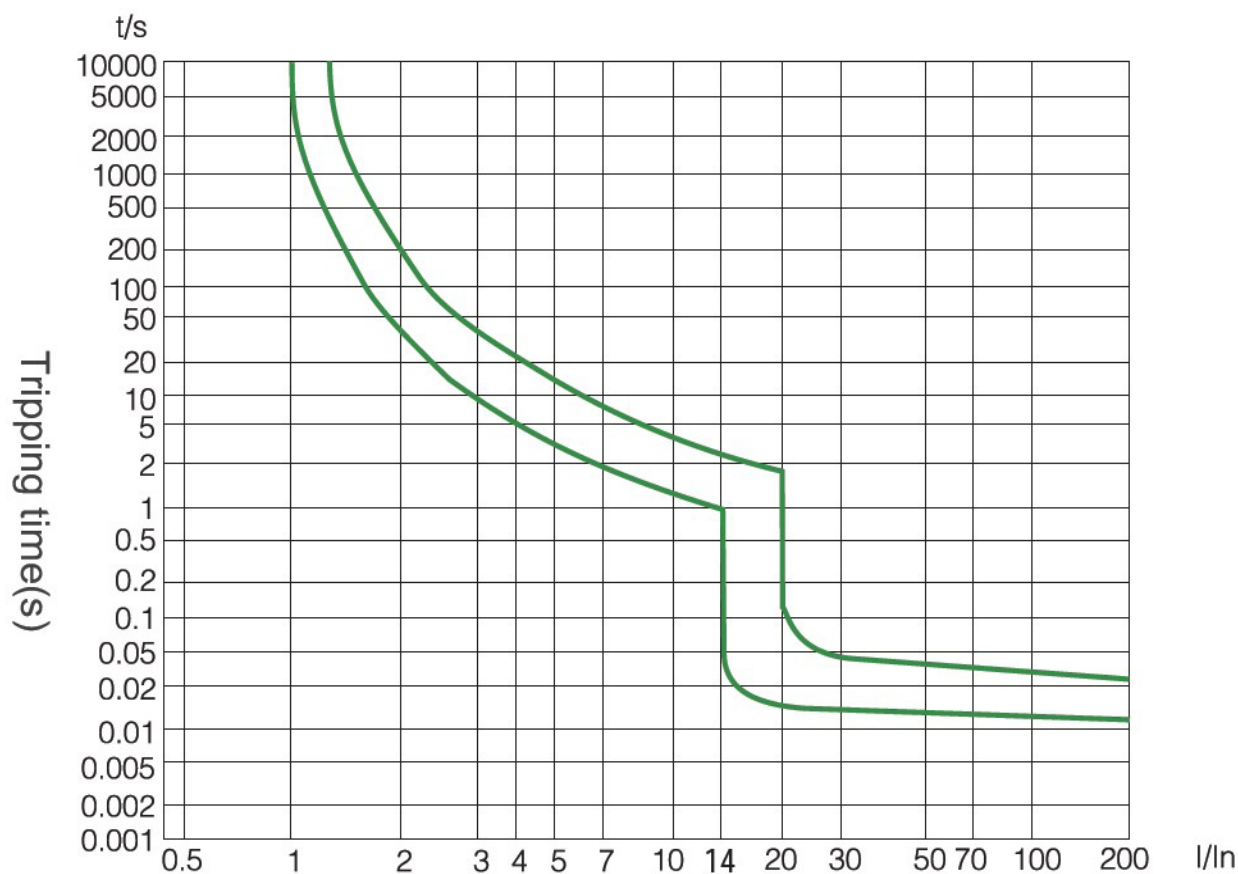
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CURVE PROTECTION SWITCH - "K" CHARACTERISTIC



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TECHNICAL DATA

NOMINAL VALUES	• applicable / - not applicable	
Rated voltage	[VDC]	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	[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
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	[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]	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

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