

DATA SHEET

ITEM NO. 10019937

DC generator terminal box

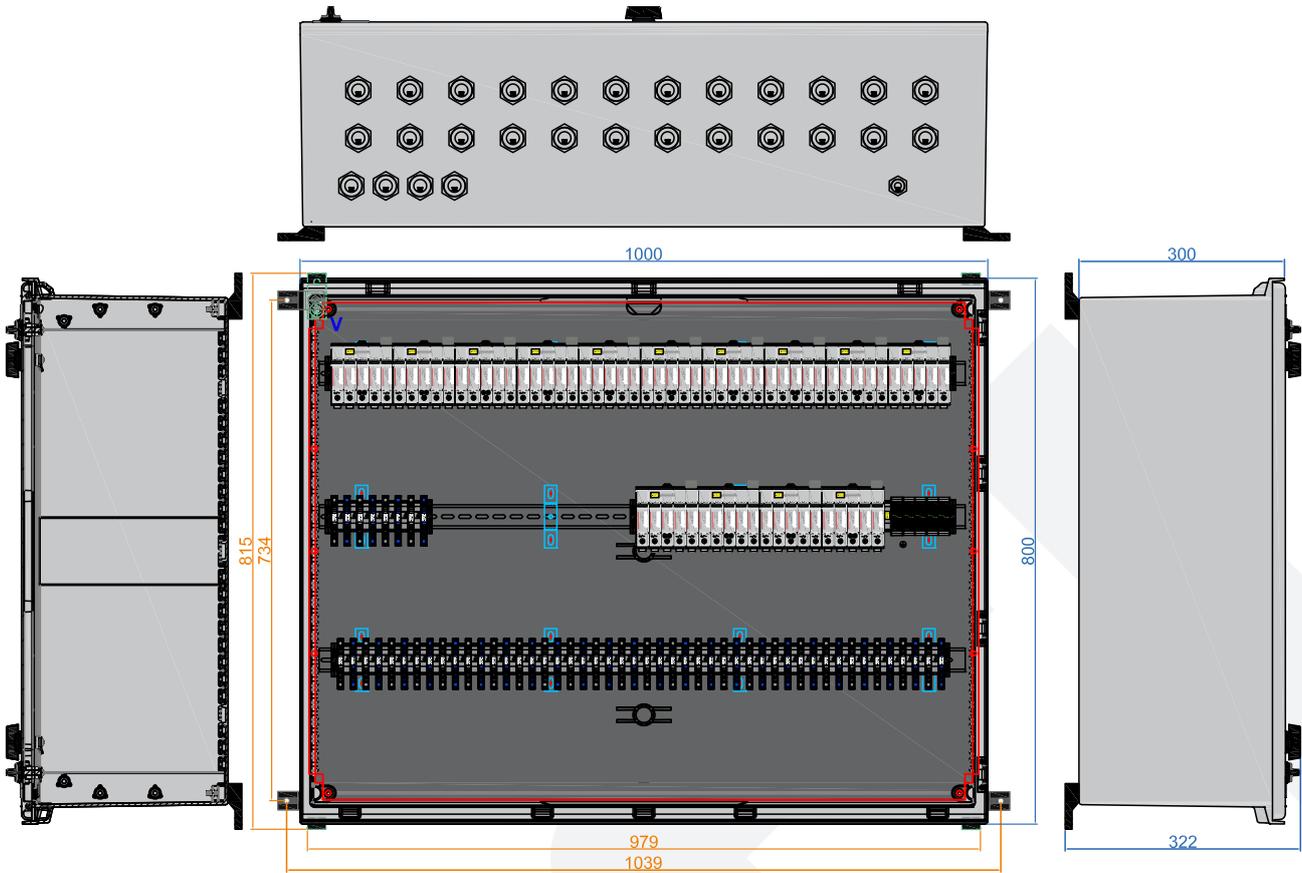
GAK 1500V M28 I01VRS O01VRS Sxxxx Xxxxx M- Ü12

All values in [mm]
dimensions "blue"
attachment points "orange"

Internal layout and components may vary depending on the variant!

Minimum distances

above	200
below	200
lateral	100
front	1200



SCOPE OF DELIVERY

Quantity	Designation
1	GAK
1	Installation instructions GAK standard
1	Circuit diagram
1	Wall mounting bracket set

Quantity	Designation
1	Cable gland M20 incl. lock nut
28	Cable gland M32 incl. lock nut
28	Multiple seal MFD 32/40/070

Status: (a)

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.

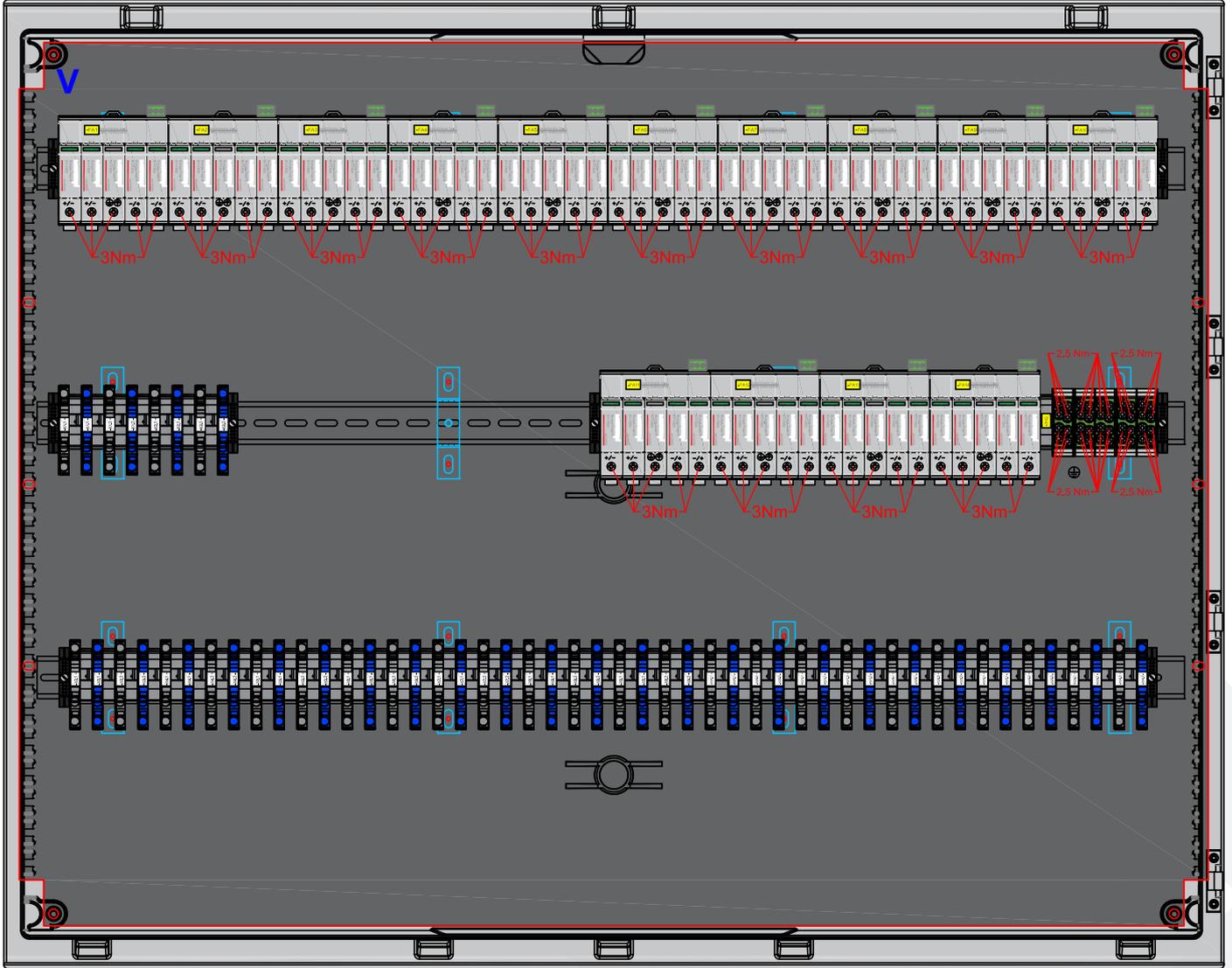
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TORQUES



10019937_GB_DAT_GAK 1500V M28 I01VRS O01VRS Sxxxx Xxxxx M- Ü12 (a)

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TECHNICAL DATA

NOMINAL VALUES		• applicable / - not applicable
Rated insulation voltage U_i	[VDC]	1500
Rated operating voltage U_e	[VDC]	1500
Rated current $I_{nA} (\sum I_{SCSTC})$	[ADC]	476
Design current* $I_{SCMAX} (= \sum I_{SCSTC} \times 1.25)$	[ADC]	595
Number of independent MPP inputs		28
Maximum number of PV strings IN/OUT		28/28
Parallel connected inputs/outputs		-

PER STRAND		
Rated current $I_{nc} (I_{SCSTC})$	[ADC]	17
Rated current* $I_{SCMAX} (= I_{SCSTC} \times 1.25)$	[ADC]	21,25

SURGE PROTECTION DEVICE		
Surge protection PV		
Test class according to EN 61643-11 (type)		I+II
Maximum permissible continuous voltage U_{cpv}	[VDC]	1500
For type 1: Lightning impulse current max. $I_{imp} 10/350$	[kA]	5

* The design current I_{SCMAX} according to VDE 0100-712:2016-10 includes a factor of 1.25 for I_{SCSTC} of the PV module or PV string.

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TECHNICAL DATA

INPUT (TO THE PV GENERATOR) *		• applicable / - not applicable
cable entries		
Screw connections (EN 62444)		M32 + MFD
Clamping range (from - to)	[Ømm]	4 × 5 - 7
connections		
connection type		Spring-loaded terminal
stripping length	[mm]	13 - 15
tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Cu fine-stranded with ferrule	[mm²]	0.5 - 6
copper fine wire	[mm²]	0.5 - 10
Single-wire or multi-wire copper	[mm²]	0.5 - 10

OUTPUT (TO THE PV INVERTER) *		
cable entries		
Screw connections (EN 62444)		M32 + MFD
Clamping range (from - to)	[Ømm]	4 × 5 - 7
connections		
connection type		Spring-loaded terminal
stripping length	[mm]	13 - 15
tightening torque	[Nm]	-
Conductor cross-section (from - to)		
Cu fine-stranded with ferrule	[mm²]	0.5 - 6
copper fine wire	[mm²]	0.5 - 10
Single-wire or multi-wire copper	[mm²]	0.5 - 10

* The input and output cables are connected to the same terminal block (see circuit diagram). The strands are not connected in parallel!

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TECHNICAL DATA

EARTHING CONNECTION		• applicable / - not applicable
cable entries		
Screw connections (EN 62444)		M20
Clamping range (from - to)	[Ømm]	7 - 13
connections		
connection type		Screw terminal
stripping length	[mm]	19
tightening torque	[Nm]	2.5
Conductor cross-section (from - to)		
Cu fine-stranded with ferrule	[mm²]	1.5 - 16
copper fine wire	[mm²]	-
Single-wire or multi-wire copper	[mm²]	2.5 - 25

GENERAL		
Dimensions WxHxD (without screw connections)	[mm]	1000 x 800 x 300
Weight, approx.	[kg]	40,5
operating temperature range	[°C]	-25...+40 (peak +45)
Temperature - Transport/Storage (24 hours at 70°C)	[°C]	-25...+40
Humidity - condensation permitted		•
Humidity - permissible range	[%]	5...95
degree of contamination		4
Maximum installation height above sea level	[m]	2000
Protection class IP (EN 60529)		65
Suitability for outdoor use (protected area)		•
Protection class (EN 61140)		II
case material		Polyester
RoHS compliant (2011/65/EU)		•
case colour		Similar to RAL 7035
lid		Hinged door
type of installation		Wall mounting
closure type		Double-bit CLOSURE

OTHER		
tariff number		85372091

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