

DATA SHEET

ITEM NO. 10016613

DC generator junction box

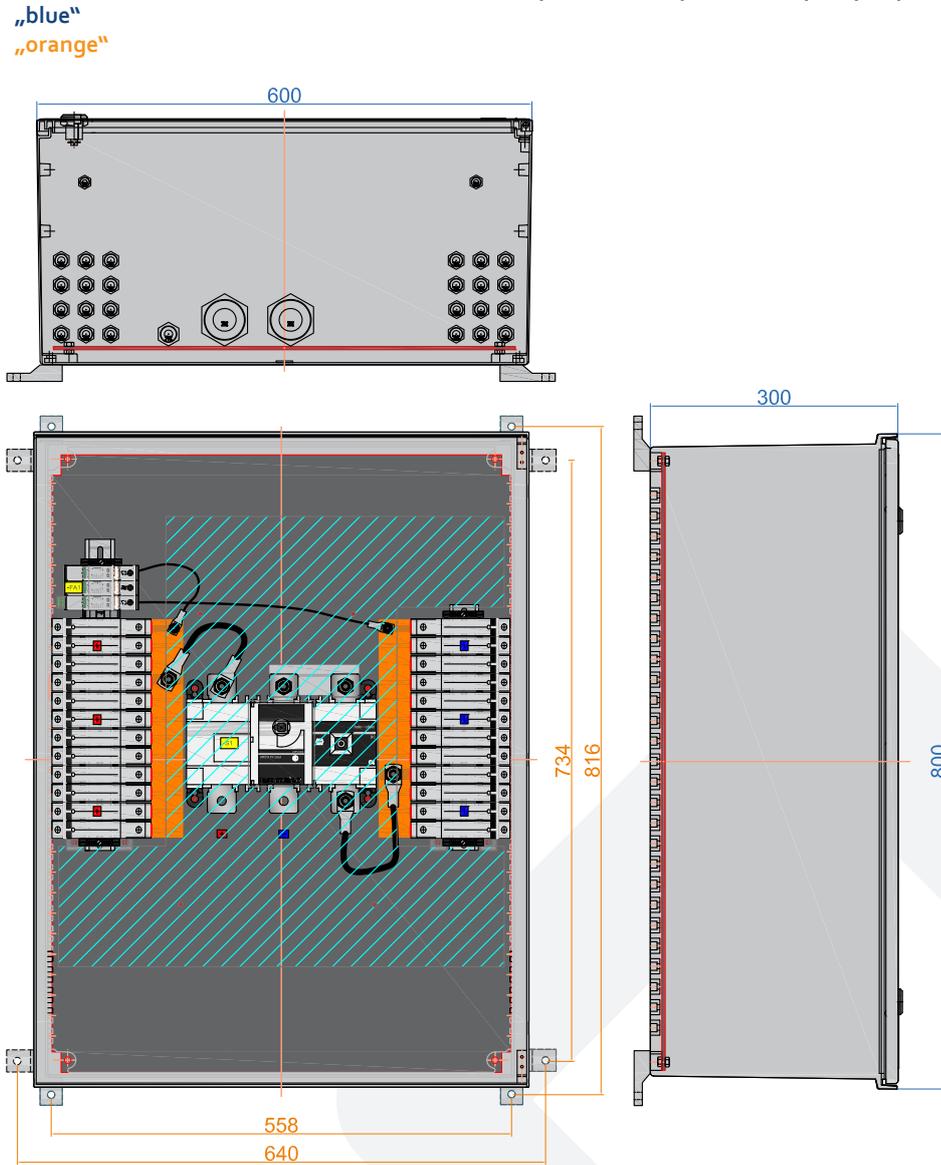
GAK-S-1500-12S(x2)xx-T315-BC-PES-1.0

All values in [mm]
dimensions
attachment points

Minimum distances

above	200
below	200
lateral	100
in front	800

Internal layout and components may vary depending on the variant!



SCOPE OF DELIVERY

Number	Designation
1	GAK
1	Installation instructions GAK standard
1 set	Wall mounting brackets
24	Cable gland M16 incl. lock nut

Number	Designation
1	Cable gland M20 incl. lock nut
2	Cable gland M50 incl. lock nut
2	Pressure compensation element M12 incl. lock nut

Status: (a)

The text and illustrations correspond to the technical status at the time of printing; changes are reserved.
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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 $I_{nA} (\sum I_{SCSTC})$	[ACD]	240
Rated current* $I_{SCMAX} (= \sum I_{SCSTC} \times 1,25)$	[ACD]	300
Number of independent MPP inputs		1
Maximum number of PV strings IN/OUT		12/1
Parallel connected inputs/outputs		12/-

PER STRAND		
Rated current $I_{nc} (= I_{SCSTC})$	[ADC]	20
Rated current* $I_{SCMAX} (= I_{SCSTC} \times 1,25)$	[ADC]	25

SURGE PROTECTION DEVICE		
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

LOAD BREAK SWITCH		
Thermal current I_{th} at 60 °C	[A]	315
Usage category according to DIN EN 60947-3		DC-21B
Manufacturer and type designation		Socomec Sirco PV 1500VDC 315A B4T IEC 26PV3030

* 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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INPUT (TO THE PV GENERATOR)		• applicable / - not applicable
Line introductions		
Screw connections (EN 50262)		M16
Clamping range (from - to)	[Ømm]	4,5 - 10
Connections		
Connection type		Schraubklemme
Stripping length	[mm]	12
Tightening torque	[Nm]	2,5
Conductor cross-section (from - to)		
Cu - fine-stranded with wire end ferrule	[mm²]	max. 16
Cu - fine-stranded	[mm²]	-
Cu - single-wire or multi-wire	[mm²]	-

OUTPUT (TO THE PV INVERTER)		
Line introductions		
Screw connections (EN 50262)		M50
Clamping range (from - to)	[Ømm]	21 - 35
Connections		
Connection type		Cable lug M10 [#]
Stripping length	[mm]	-
Tightening torque	[Nm]	26
Conductor cross-section (from - to)		
Cu - fine-stranded with wire end ferrule	[mm²]	-
Cu - fine-stranded	[mm²]	-
Cu - single-wire or multi-wire	[mm²]	max 185

[#] Cable lugs are not included in the scope of delivery.

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TECHNICAL DATA

EARTHING CONNECTION		• applicable / - not applicable
Line introductions		
Screw connections (EN 50262)		M20
Clamping range (from - to)	[Ømm]	6 - 13
Connections		
Connection type		Screw terminal
Stripping length	[mm]	19
Tightening torque	[Nm]	2,5
Conductor cross-section (from - to)		
Cu - fine-stranded with wire end ferrule	[mm²]	1,5 - 16
Cu - fine-stranded	[mm²]	-
Cu - single-wire or multi-wire	[mm²]	2,5 - 25

GENERAL		
Dimensions WxHxD (without screw connections)	[mm]	600 x 800 x 300
Weight, approx.	[kg]	25
Operating temperature range	[°C]	-25...+35
Temperature - Transport/Storage (24 hours at 70°C)	[°C]	-25...+35
Humidity - condensation permitted		•
Humidity - permissible range	[%]	5...95
Max. installation height above sea level	[m]	2000
Protection class IP (EN 60529)		65
Suitability for outdoor use (protected area)		•
Protection class (EN 61140)		II
Housing material		Polyester
RoHS compliant (2011/65/EU)		•
Housing colour		Similar to RAL 7035
Lid		Hinged door
Type of installation		Wall mounting
Closure type		Double-bit lock

MISCELLANEOUS		
Tariff number		85372091

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