

DATA SHEET

ITEM NO. 10019625

Mains switch box
Power Backup Brain

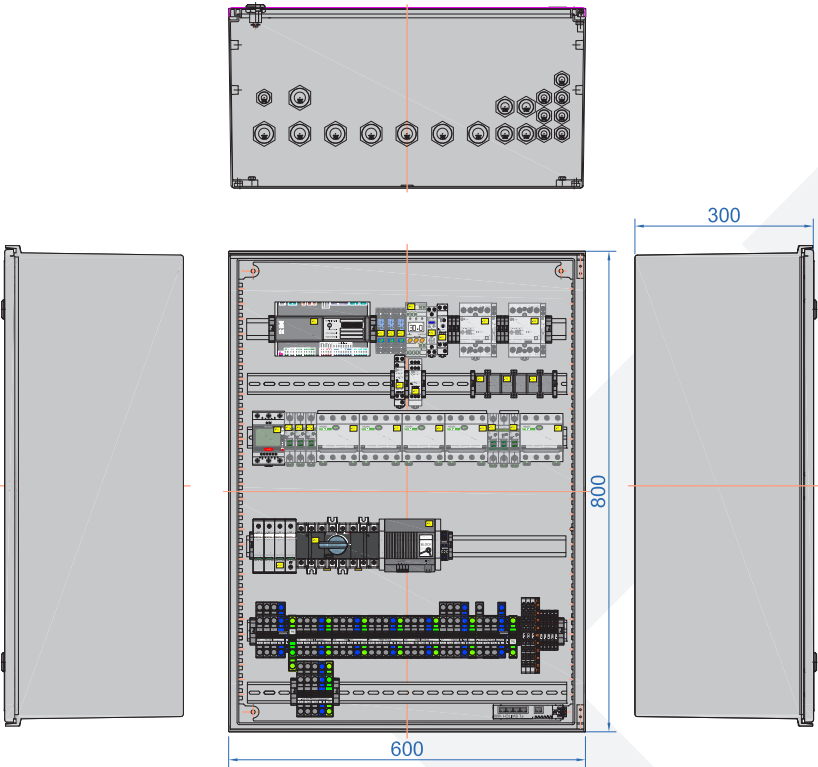
Designation	Mains switch box - all-pole - standard
Application	Compatible with all off-grid battery and hybrid inverters with two three-phase AC connections up to 30 KW
Region	EU
Mains disconnection	All-pole disconnection
Net shape	3PH 230/400V - TN-C/S/TN-S or TT networks; NO TN-C network in the customer system!
Inverter	only suitable for inverters with their own backup output
Control & monitoring	integrated current and voltage relay incl. EMS

All values in [mm]
Dimensions "blue"
Fastening points "orange"

Internal arrangement and components may differ depending on the variant!

Minimum distances

above	200
below	200
lateral	100
front	800



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SCOPE OF DELIVERY

Quantity	Designation
1	Mains switch box
1	Installation instructions
3	M40 cable gland
8	M32 cable gland incl. locknut
4	M25 cable gland incl. locknut
8	M20 cable gland incl. lock nut
4	Extension metric KEM 32/40
4	Split mould sealing set

Quantity	Designation
1	Dangerous voltage" warning sticker
1	Sticker - reference to a storage system with islanding capability
1	Operating instructions Selec current monitoring relay
1	Operating instructions Changeover unit, switch, power supply unit
1	Operating instructions EMS
1	Operating instructions Fronius Smart Meter
1 set	Fronius Smart Meter protective cover
1	Wall mounting set

Status: April 2025
The text and illustrations correspond to the technical status at the time of printing and are subject to change without notice.
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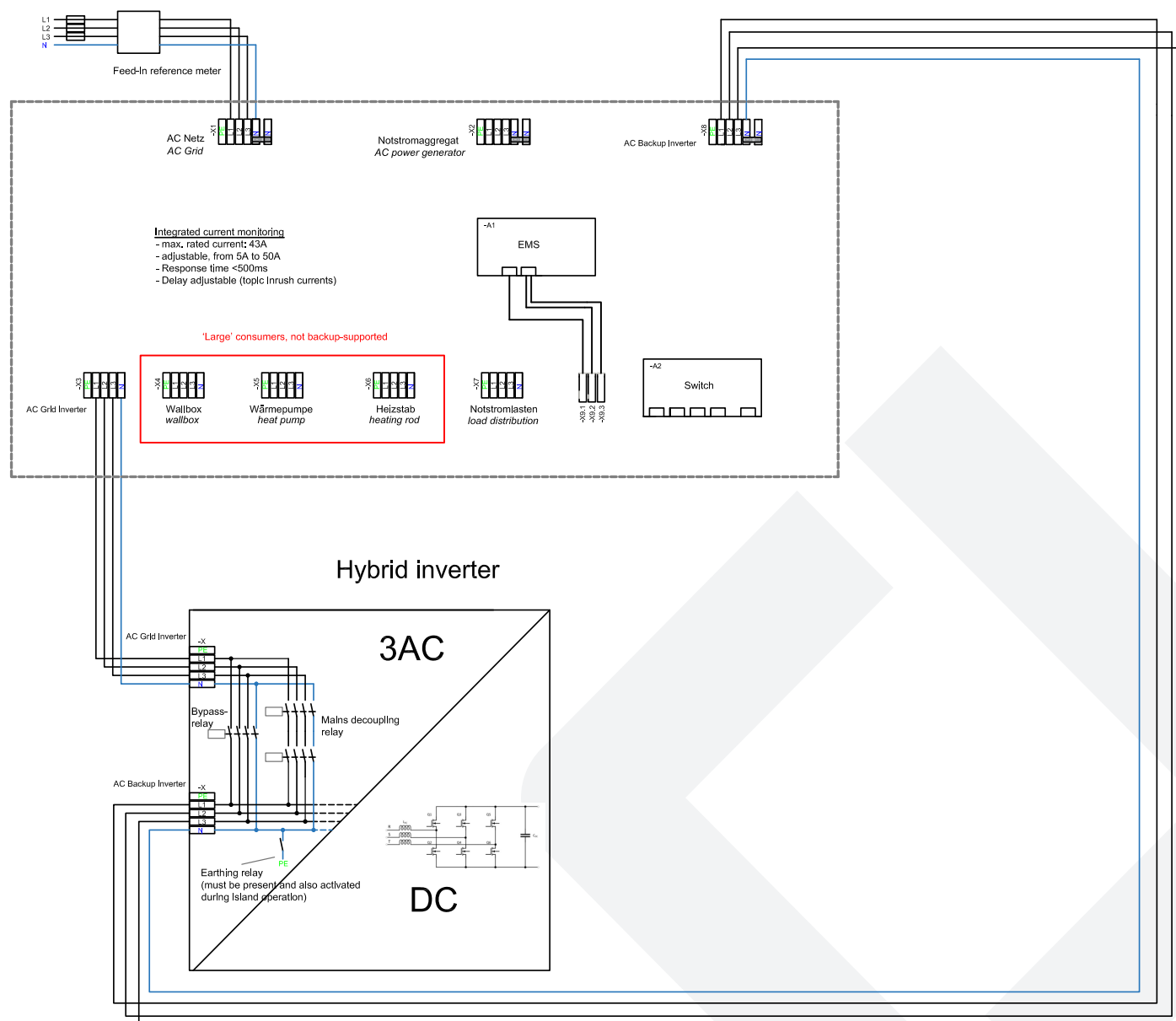
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INTERNAL WIRING

Grid 230/400V 50Hz
max. 63A gL/gG



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CABLE ENTRY AND CONNECTIONS

Cable gland	Terminal strip	Clamping range [mm]	Strand type	max. cross-section [mm²]	Stripping length [mm]
M32 M40	-X1 - AC Grid	13 - 21 19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
M32	-X2 - AC Power Generator	13 - 21	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
M32 M40	-X3 - AC Grid Inverter	13 - 21 19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
M32	-X4 - Wallbox	13 - 21	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
M32	-X5 - Heat Pump	13 - 21	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
M32	-X6 - Heating Rod	13 - 21	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
M32 M40	-X7 - AC Load Distribution	13 - 21 19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
M32 M40	-X8 - AC Backup Inverter	13 - 21 19 - 28	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20
M25	-A2 - Network	10 - 17	Direct connection via RJ45 plug		
M20	-X9.1/-X9.2 - EMS Further screw connections as placeholders	7 - 13	solid finely stranded finely stranded with ferrule	1,5 1,5 -	8 - 10
M20	PE - potential equalisation	7 - 13	solid finely stranded finely stranded with ferrule	16 25 16	18 - 20

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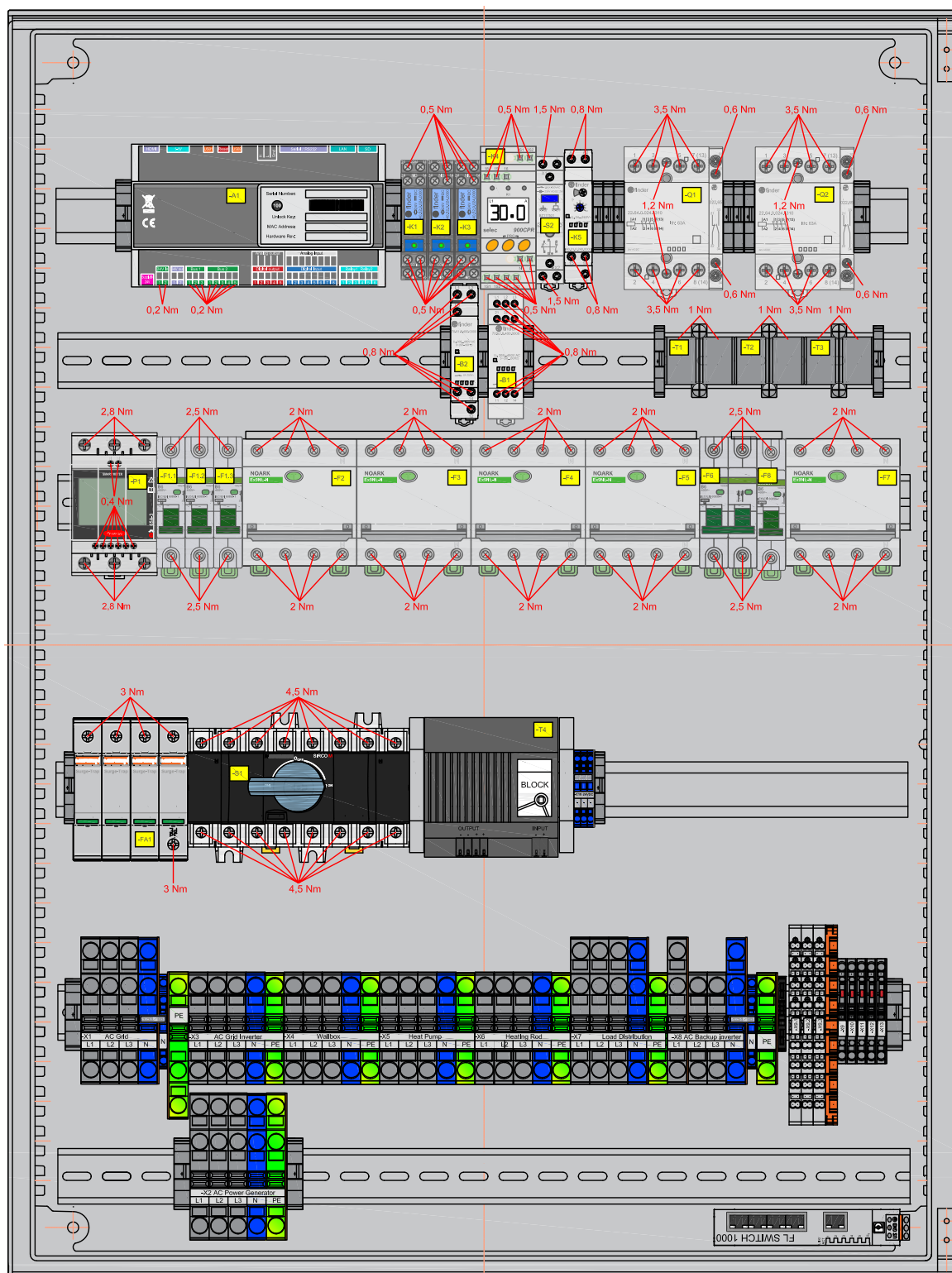
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TORQUES



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TECHNICAL DATA

NOMINAL VALUES	• applicable / - not applicable	
Rated voltage	[V]	3AC - 230/400
Rated insulation voltage	[V]	400
Operating frequency	[Hz]	50/60 +/- 5%
Max. prospective short-circuit current	[kA]	10
Permitted net shape		TN-C/S/TT/TN-S
Mains disconnection		all-pole
Max. mains-side back-up fuse	[A]	63
Max. thermal throughput $t_a = 40^{\circ}\text{C}$	[kW]	30

CIRCUIT BREAKERS AND RESIDUAL CURRENT CIRCUIT BREAKERS		
-F1.1/-F1.2/ -F1.3/-F6	Mains" control circuit	MCB [A] B6
-F2	AC Grid Inverter	RCBO [A] Type C, 63/0.3
-F3/-F4/-F5	Wallbox, heat pump, heating element	RCBO [A] Type C, 63/0.3
-F7	AC backup inverter	RCBO [A] Type C, 63/0.3
-F8	Backup" control circuit	MCB [A] B6
-F9	Miniature fuse 5 x 20	[A] 0.08 - inert
-F10/-F12/-F13	Miniature fuse 5 x 20	[A] 0.4 - inert
-F11	Miniature fuse 5 x 20	[A] 0.05 - inert

CONTACTORS (IEC/EN 61095; IEC/EN60947-1; IEC 60947-5-1)		
-K1/-K2/-K3	Control voltage	[V] 24
-K4	Current protection relay	[V] 230
-K5	Time relay	[V] 24
-B1/-B2	Voltage monitoring relay	[V] 230
-Q1	Grid feed-in	AC1[A] 63
-Q2	Feed-in inverter backup	AC1[A] 63

PUFFER NETWORK PART		
Type		Block B2302022
Power supply unit (buffered)	[VDC]	24

* is the maximum, unaffected continuous short-circuit current of the mains connection.

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TECHNICAL DATA

SWITCH	• applicable / - not applicable	
Type	Phoenix-FL SWITCH 1005N	
Supply	[VDC]	24

OVERVOLTAGE PROTECTION		
Test class according to EN 61643-11 (type)	I+II/BC TNS	
Lightning impulse current (10/350) (I_{imp})	[kA]	12,5

CHANGEOVER SWITCH		
Type	Socomec Sirco M2 63A	

GENERAL		
Dimensions WxHxD (without screw connections)	[mm]	600 x 800 x 300
Weight, approx.	[kg]	23
Operating temperature range	[°C]	-5...+35
Temperature - transport/storage (24 hours 70°C)	[°C]	-25...+55
Humidity - condensing permitted		-
Humidity - permissible range	[%]	5...60
max. installation height above N.N.	[m]	2000
Protection class IP (EN 60529) $t_a = 40^\circ\text{C}$		54
Outdoor suitability (protected area)		-
Installation type		Indoor area
Protection class (EN 61140)		II
Housing material		Polyester
RoHS-compliant (2011/65/EU)		•
Housing colour		similar to RAL 7035
Lid		Hinged door
Mounting type		Wall mounting
Closure type		Double-bit closure

OTHER		
Customs tariff number	85371098	

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