

DATA SHEET

ITEM NO. 10020098

AC distribution board

BRAIN Cabinet

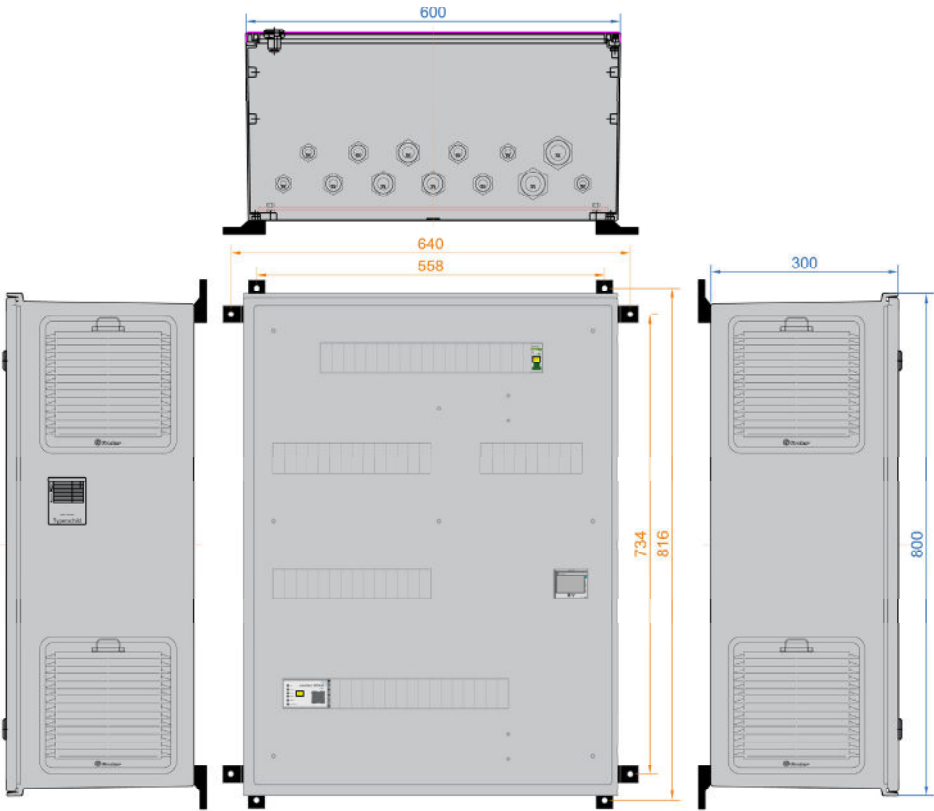
Description	BRAIN Cabinet
Application	Home Energy Management System
Region	D-A-CH
Mould shape	3-phase 230/400 V – TN-C(S)/TN-S or TT systems; NO TN-C system in the customer's installation!
Inverter, wallbox, heat pump, heating element	See the compatibility list
Control & Monitoring	enwitec BRAIN HOME

All dimensions are in [mm]
Dimensions , 'blue'
"orange" mounting points

Minimum distances

top	200
below	200
left	100
right	100
front	800

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



SCOPE OF DELIVERY

Number	Description
1	BRAIN Cabinet
1	Manual
1	Backup list
1	Circuit diagram
4	M20 cable gland, including lock nut
4	M25 cable gland, including lock nut
3	M32 cable gland, including lock nut
2	M40 cable gland, including lock nut
2	Split seal set GFD25

Number	Description
4	EMT20 membrane inlet
4	EMT25 membrane feed-through
3	EMT32 membrane feed-through
2	Terminating resistor for bus
1	Sealing kit for energy meters
1 set	Wall mounting brackets
1	EMS Quick Guide
1	Installation and User Manual for Energy Meters

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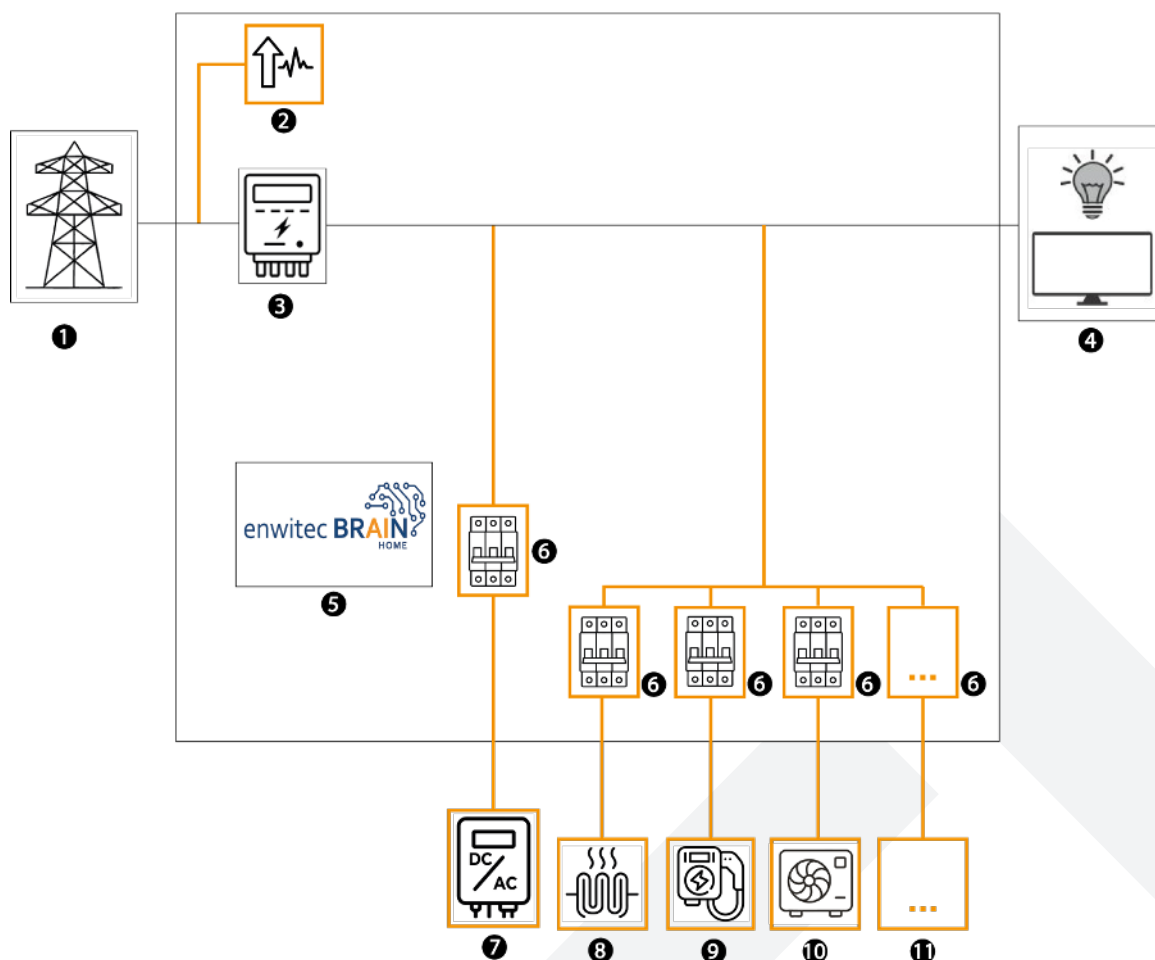
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CIRCUIT BOARD ENVIRONMENT



- 1** Grid (network)
- 2** Surge protection (optional, to be provided by the customer)
- 3** Energy meter
- 4** Household expenses
- 5** enwitec BRAIN HOME energy manager
- 6** Fuse and RCD (optional, to be provided by the client)
- 7** Hybrid inverter connection to the grid (option to be provided by the customer)
- 8** Heating element (optional, to be provided by the customer)
- 9** Wallbox (optional, to be provided by the customer)
- 10** Heat pump (option to be provided by the client)
- 11** Miscellaneous (option to be provided by the client)

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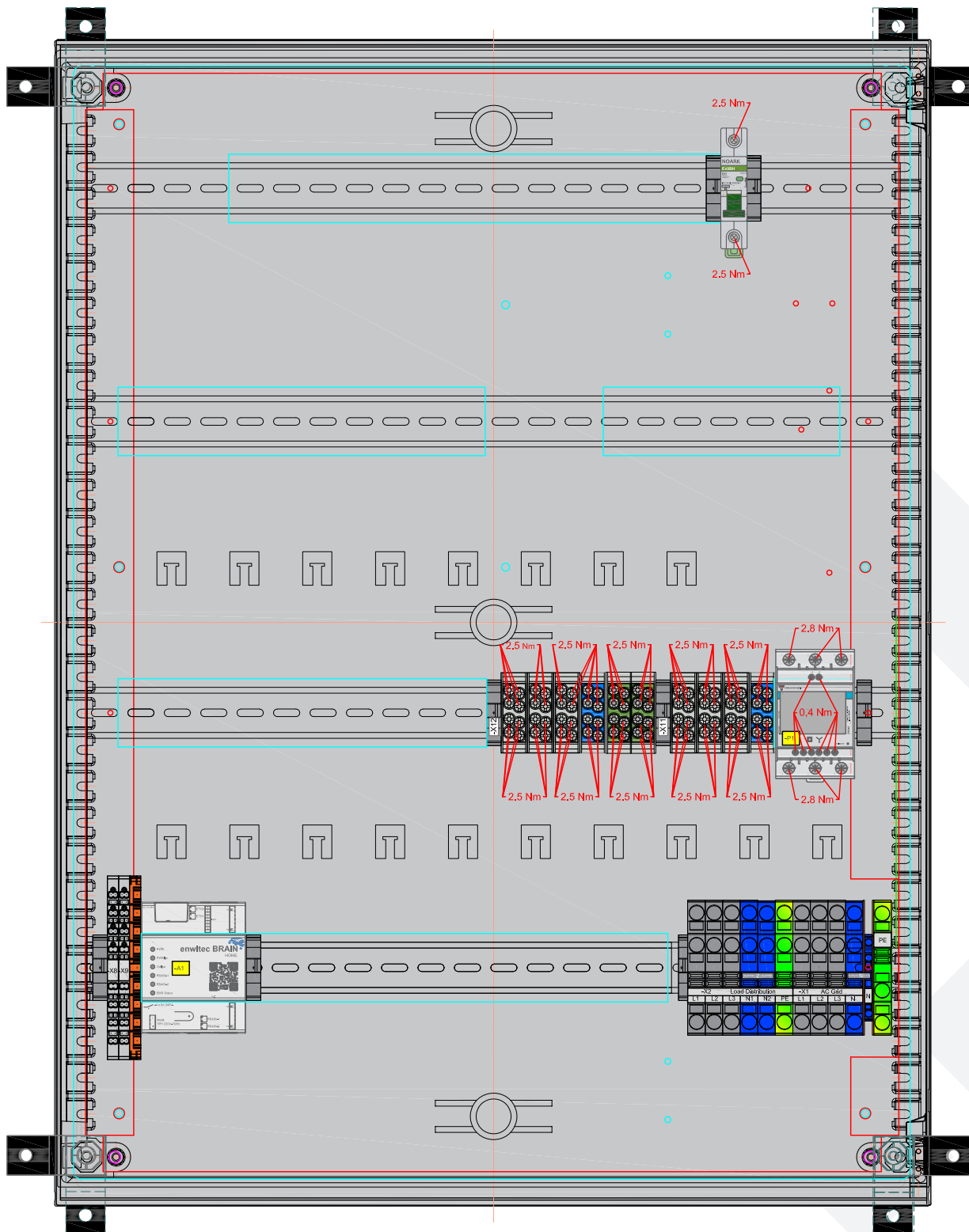
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TORQUES



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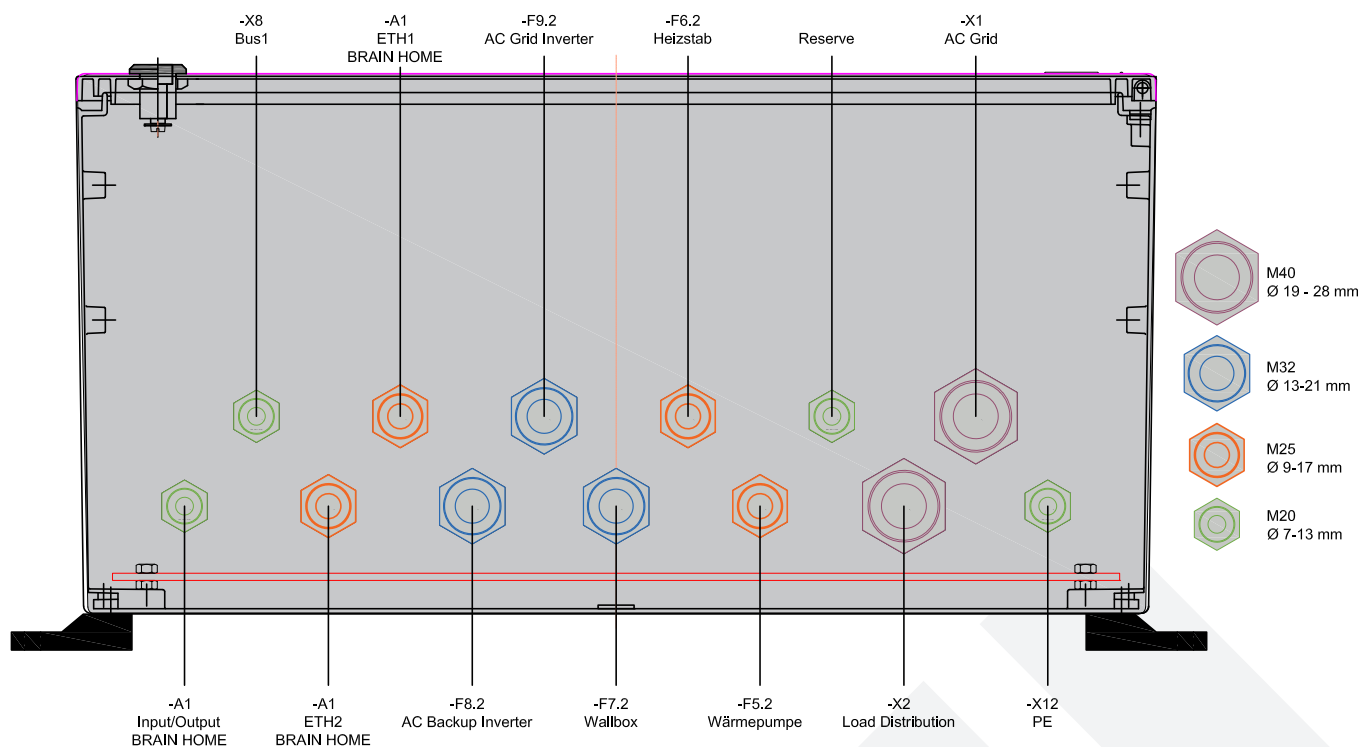
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BRAIN Cabinet

CABLE ENTRY AND CONNECTIONS



Cable gland	Terminal block	Clamping range [mm]	Strand type Copper	Max. cross-sectional area [mm²]	Stripping length [mm]
 M40	-X1 – AC Grid	19 - 28	single-strand/multi-strand finely stranded finely stranded with ferrule	16 25 16	18 - 20
 M40	-X2 - Load Distribution	19 - 28	single-strand/multi-strand finely stranded finely stranded with ferrule	16 25 16	18 - 20
 M20	-X8 - Bus 1	7 - 13	single-strand finely stranded finely stranded with ferrule	1,5 1,5 -	8 - 10
 M32	-F9.2 - AC Grid Inverter	13 - 21			
 M20	-X12 - PE	7 - 13	single-strand/multi-strand finely stranded finely stranded with ferrule	16 25 16	18 - 20
 M32	Reserve				

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CABLE ENTRY AND CONNECTIONS

Cable gland	Terminal block	Clamping range [mm]	Strand type Copper	Max. cross-sectional area [mm ²]	Stripping length [mm]
 M20	-A1 - Input/Output BRAIN HOME	7 - 13	single-strand finely stranded finely stranded with ferrule	1,5 1,5 -	19 - 20
 M25	-A1 - ETH1 (Ethernet1) BRAIN HOME	4 - 6	Data cable with RJ45 plug		
 M25	-A1 - ETH2 (Ethernet2) BRAIN HOME	4 - 6	Data cable with RJ45 plug		
 M25	Reserve	9 - 17			
 M25	Reserve	9 - 17			
 M32	Reserve	13 - 21			
 M20	Reserve	7 - 13			
	-X12 – internal clamping points (reserve)		single-strand/multi-strand finely stranded finely stranded with ferrule Hexagonal pressing required!	25 - 16	19
	-X11 – internal connection points for the energy meter		single-strand/multi-strand finely stranded finely stranded with ferrule Hexagonal pressing required!	25 - 16	19

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TECHNICAL SPECIFICATIONS

NOMINAL VALUES		• applies / - does not apply
Rated voltage U_n	[V]	3AC - 230/400
Rated insulation voltage U_i	[V]	400
Rated frequency f_n	[Hz]	50
Rated short-time current withstand capacity I_{cw}	[N/A]	10
Permitted grid configuration		TN-C-S, TN-S, TT
Max. upstream fuse	[A]	63
Rated current of the I_{na} switchgear assembly	[A]	44

CIRCUIT BREAKERS AND RESIDUAL CURRENT DEVICES		
-F2	enwitec BRAIN HOME protection	MCB [A] B6

ENERGY METERS		
-P1	Electricity Consumption/Feed-in: Direct Metering	[A] 63

SPACE SET ASIDE FOR INSTALLATION OF COMPONENTS BY THE CUSTOMER		
Installation of MCB and RCD for wall boxes, heat pumps, heating elements, inverters, ...	[TE]	59
Installation of surge protection	[TE]	4
Maximum permissible power dissipation. Components and wiring to be provided by the customer (components installed by the customer must be suitable for an ambient temperature of at least 60°C!)	[W]	80

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TECHNICAL SPECIFICATIONS

GENERAL	• applies / - does not apply	
Dimensions WxHxD (excluding fastenings)	[mm]	600 × 800 × 300
Weight, approx.	[kg]	21,3
Operating temperature range	[°C]	-5...+35
Temperature – Transport/Storage (24 hours at 70°C)	[°C]	-15...+55
Humidity – condensation permitted		-
Humidity – permissible range	[%]	5...60
Degree of contamination		2
Maximum installation height above sea level	[m]	2000
IP protection rating (EN 60529)		54
Suitability for outdoor use (enclosed area)		-
Protection class (EN 61140)		II
Casing material		Polyester
RoHS-compliant (2011/65/EU)		•
Case colour		similar to RAL 7035
Lid		Hinged door
Installation method		Wall mounting
Type of fastening		Double-bar clasp

MISCELLANEOUS	
Customs tariff code	85371098

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