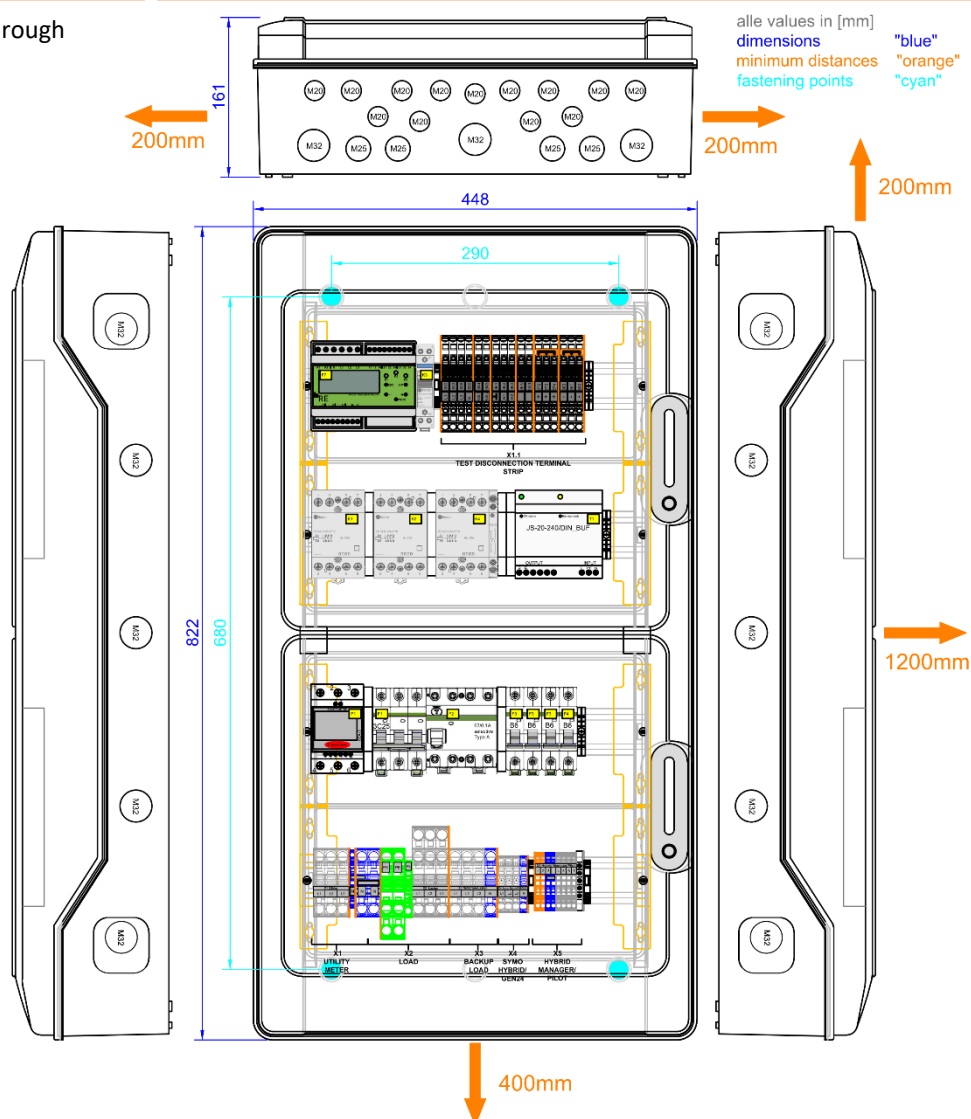


DATA SHEET

Switchover Box for the Fronius Energy Package

enwitec order number	10015586_V1.0 -Three-pole; -incl. NA-protection Tele + "central decoupling" according the requirements in regard to grid operator "Wiener Netze" and suitable for FRT* demand- (previous 10013571_V1.2)
Type designation	Switchover Box / Automatic transfer switch box
Matchcode	3PH_FRO_BBD3P_20KW_3PH_FRT_1.0_NA_Tele_WN
Application	Fronius Energy Package - Energy storage system
Battery-inverter	• Symo GEN24 6.0 Plus/8.0 Plus/10.0 Plus • Symo Hybrid 3.0-3-S/4.0-3-S/5.0-3-S
Monitoring & Control	• Fronius Smart Meter TS65A-3 is integrated • Integrated NA-protection - type Tele NA003-M64; inclusive test disconnection terminal strip - testsockets Ø 4mm
Grid structure	• 3PH 230/400V - for TN-S System only! NOT ANY TT-System/TN-C System

* FRT Fault ride through



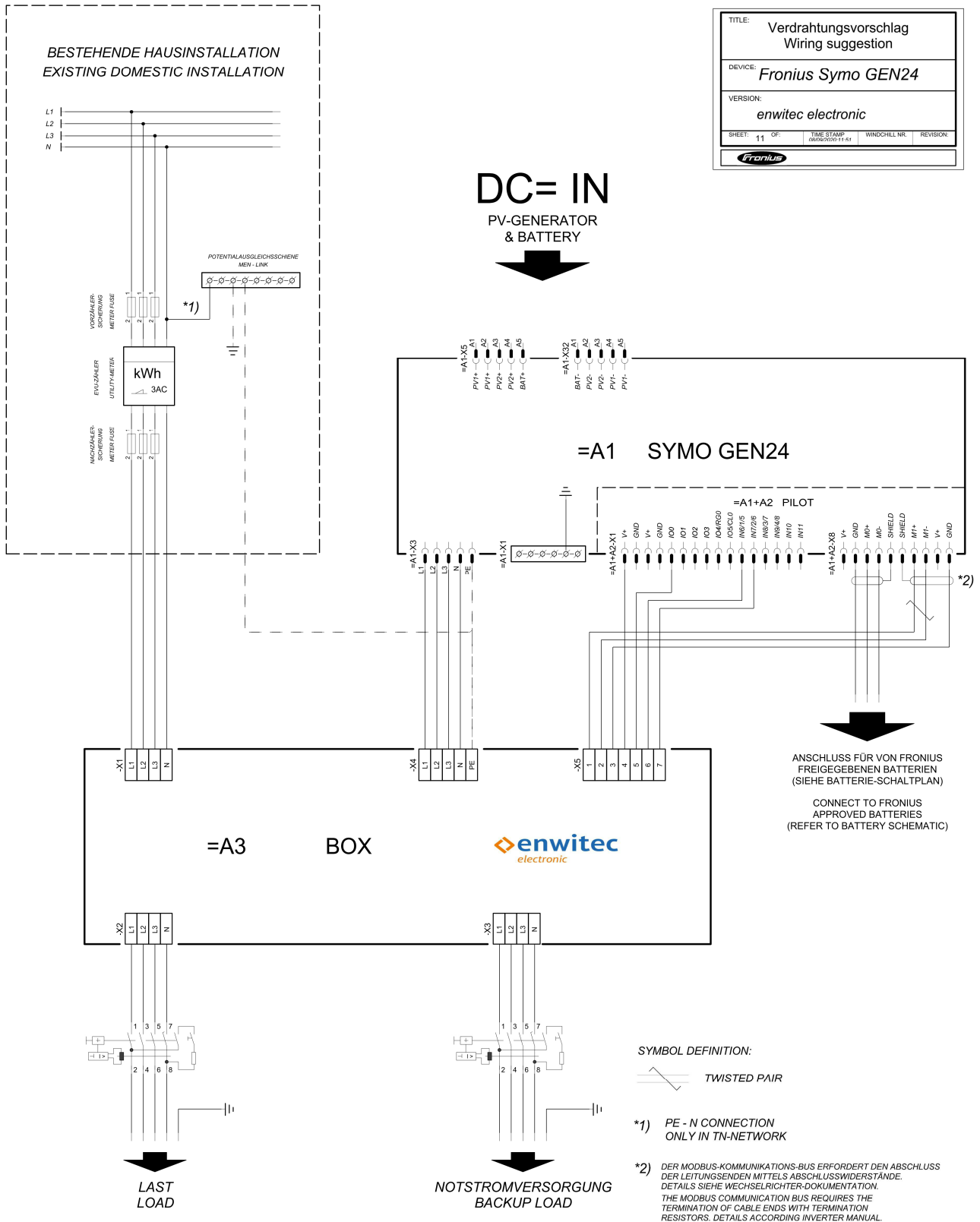
DATA SHEET

Switchover Box for the Fronius Energy Package

Circuitry overview - Symo GEN24 Plus



Please observe the manual "Switchover boxes for Fronius Energy Package"



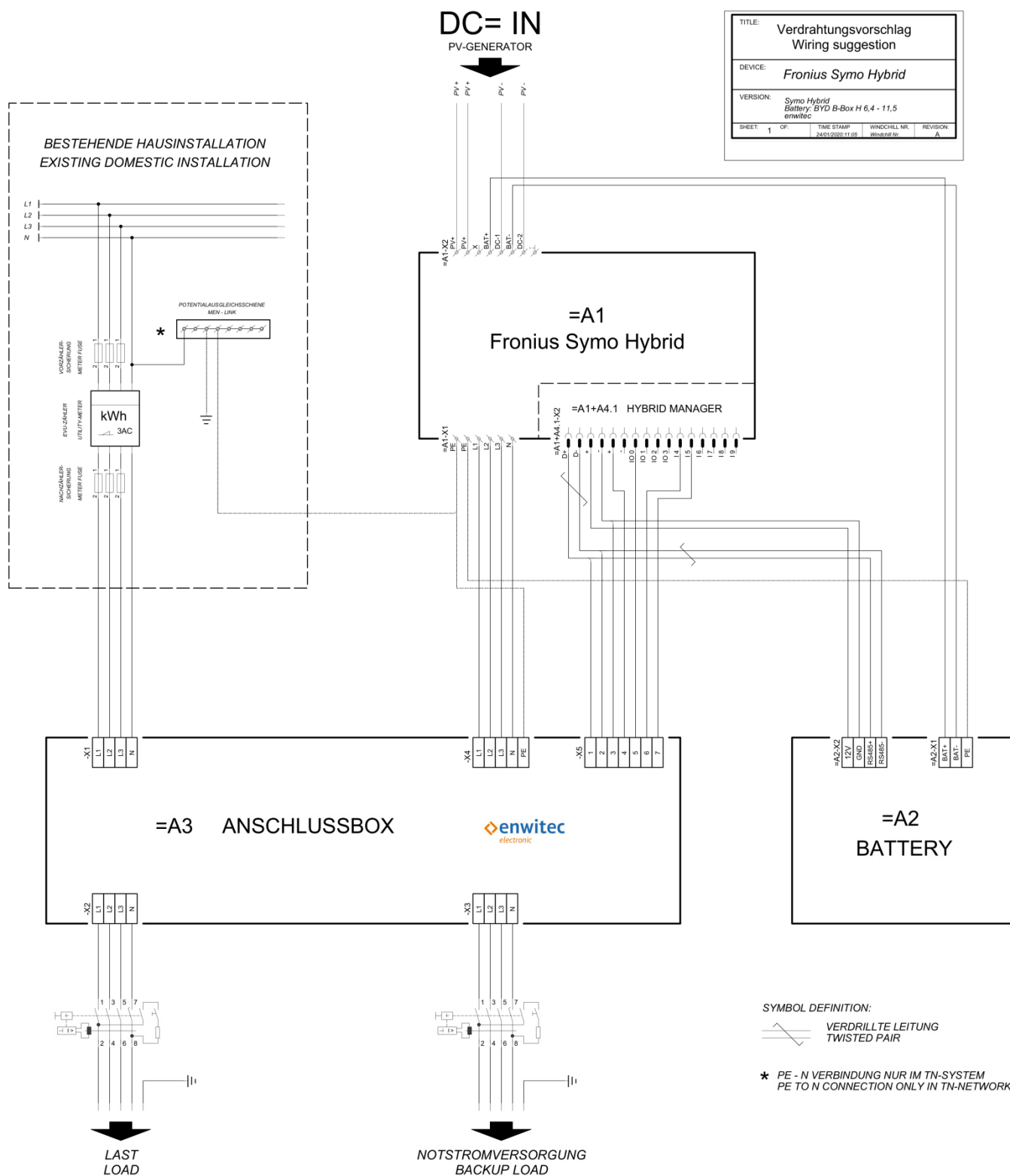
DATA SHEET

Switchover Box for the Fronius Energy Package

Circuitry overview - Symo Hybrid



Please observe the manual "Switchover boxes for Fronius Energy Package"

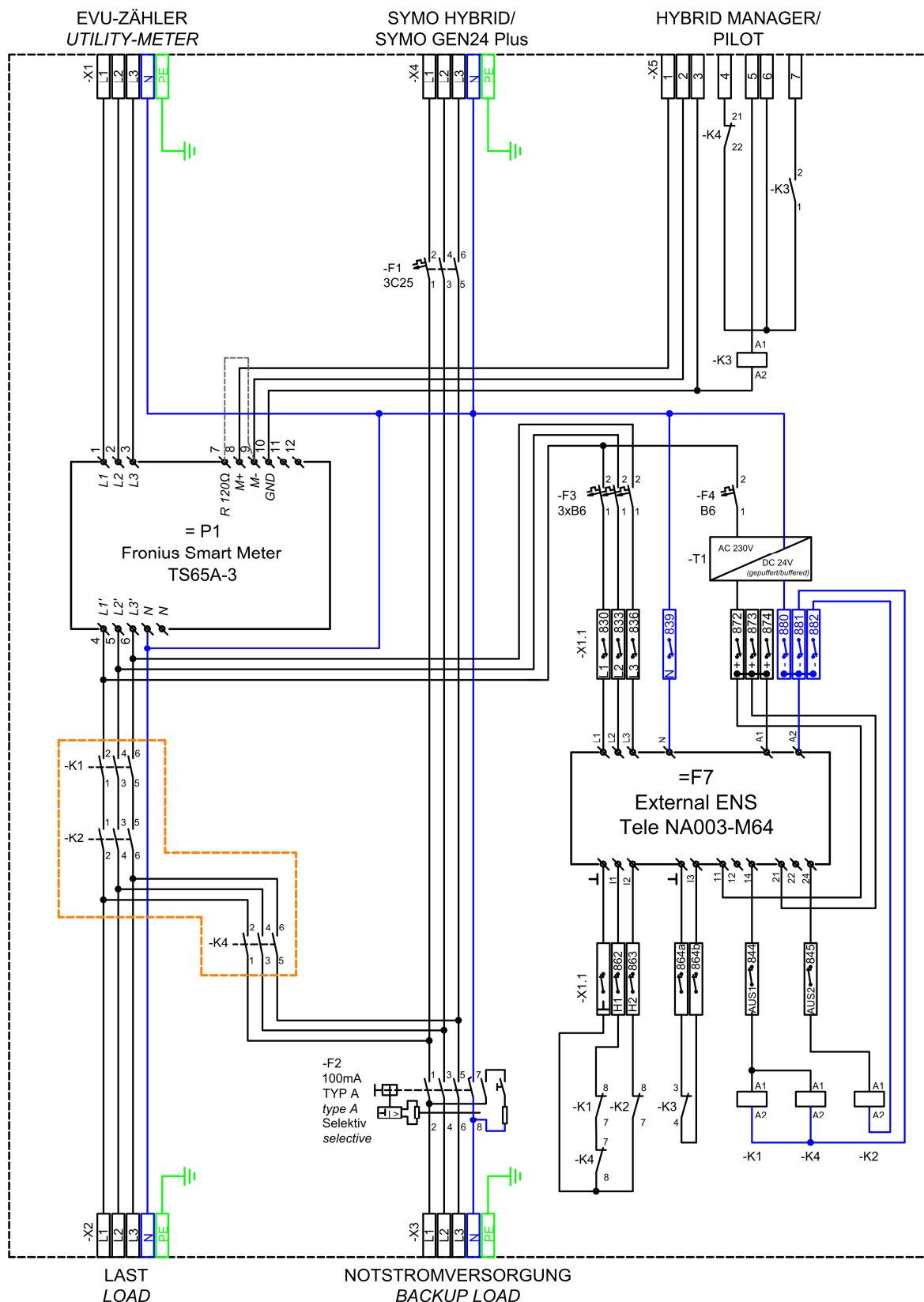


DATA SHEET

Switchover Box for the Fronius Energy Package

Internal wiring - Switchover Box 10015586_1.0

Vorgaben "zentrale Entkopplung" gemäß Wiener Netze GmbH
Specification according Wiener Netze GmbH (www.wienernetze.at)
Freigabe durch Hr. Ing. Karl Mischinger am 05.03.2018
Confirmation by Mr. Ing. Karl Mischinger on March 5, 2018.



DATA SHEET

Switchover Box for the Fronius Energy Package

TECHNICAL DATA

NOMINAL VALUES

Rated voltage	3PH [V]	230/400
Rated insulation voltage	[V]	400
Rated frequency	[Hz]	50/60
Max. prospective* short circuit current	[kA]	10
Permitted grid structure		TN-S
Max. value of pre-fuses	[A]	63(gL/gG)
Grid disconnection		Three-pole
Max. thermal power	[kW]	20
Standby-loss ca.	[W]	18,5

CIRCUIT BREAKERS (MCBs)

F1	Symo Hybrid/Symo GEN24 Plus	1 x 3C25
F3	Measuring circuit – Tele NA003-M64	3 x B6A
F4	Feed – Power supply T1	1 x B6

RESIDUAL CURRENT DEVICE (RCCB) - type "A" selective

F2	Symo Hybrid/Symo GEN24 Plus	100mA
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CONTACTORS IEC/EN61095; IEC/EN 60947-1; IEC 60947-5-1

K1/K2/K4	"Grid disconnection"	AC1[A]	63
K3	"Communication"	AC1[A]	20
K1/K2/K4	"Control voltage"	DC[V]	24
K3	"Control voltage"	DC[V]	12
Hum-free			•

CONNECTIONS/TERMINALS - Max. cross section (Cu)

X1	"AC-Grid"	[mm²]	16(25)
X2	"Loads - Not backedup"	[mm²]	16(25)
X3	"Backup Load"	[mm²]	16(25)
X4	Symo Hybrid/Symo GEN24 Plus	[mm²]	6(10)
	"Equipotential bonding"	[mm²]	16(25)
X5	Hybrid Manager/Pilot	[mm²]	1,5(2,5)

CABLE GLANDS - Clamping range [Ø mm]

X1	"AC-Grid"	M32/M40	13-21/16-28
X2	"Loads - Not backedup"	M32/M40	13-21/16-28
X3	"Backup Load"	M32/M40	13-21/16-28
X4	Symo Hybrid/Symo GEN24 Plus	M32	13-21
	"Equipotential bonding"	M20	7-13
X5	"Communication cable"	M20	7-13

• = met "-" = not met

GENERAL DATA

Width	[mm]	448
Height	[mm]	822
Depth	[mm]	161
Weight ca.	[kg]	16,5
Operating temperature range	[°C]	-5...+40
Temperatur - transport/storage	[°C]	-25...+55
Temporary max. 24 hours	[°C]	+70°C
Humidity - condensing allowed	•/-	-
Humidity - permitted range	[%]	5...95
Max. altitude above sea level	[m]	2000
Protection class IP	(EN 60529)	65
Outdoor-application permitted	•/-	-
Installation type		Indoor area
Protection against electric shock	(EN61140)	II
Cabinet - material		PC
RoHS-conformity	(2011/65/EU)	•
Cabinet's colour	(similar to RAL)	7035
Way of mounting		Wall
Cover		transparent
Locking system		tool-free

STANDARDS

Switching devices	EN 61439-1	•
	EN 61439-2	•
Distribution boards - operated by ordinary people (DBO)	EN 61439-3	•

SMART METER

Manufacturer	Fronius
Type	TS65A-3

GRID- AND PLANT PROTECTION (NA-protection) - RELAY

Manufacturer		Tele
Type		NA003-M64
Presettet standard OVE TOR R25 NS ASYNC		•
Test-disconnection terminal strip (testsockets Ø 4mm)		•
Power supply T1 (buffered)	DC[V]	24

MISCELLANEOUS

Customer tariff number	85371098
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* characterizes the max. uninfluenced short circuit current of the network-connecting point (mains supply)