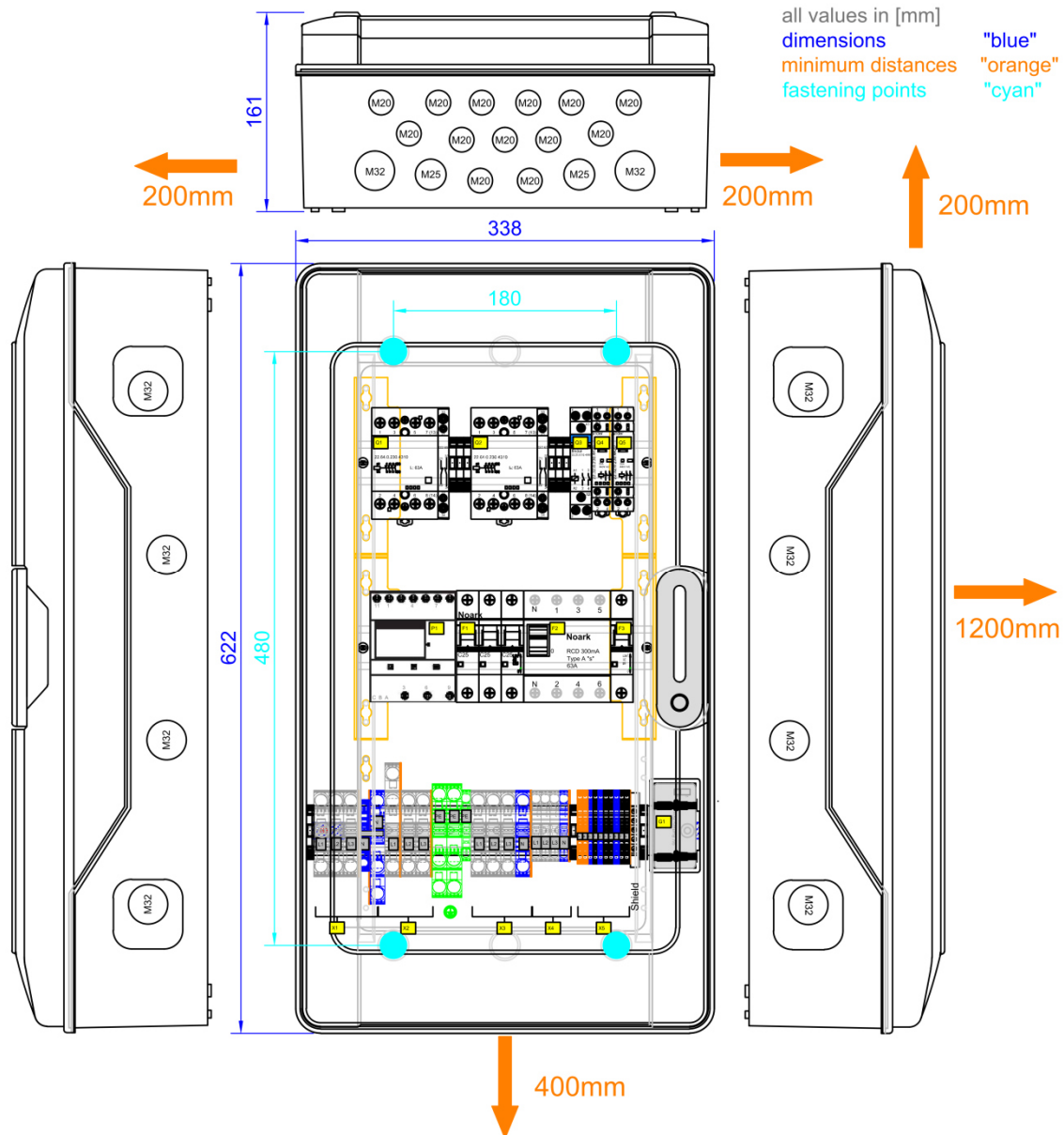


DATA SHEET

Automatic Transfer Switch Box (ATS-Box) for LG Electronics

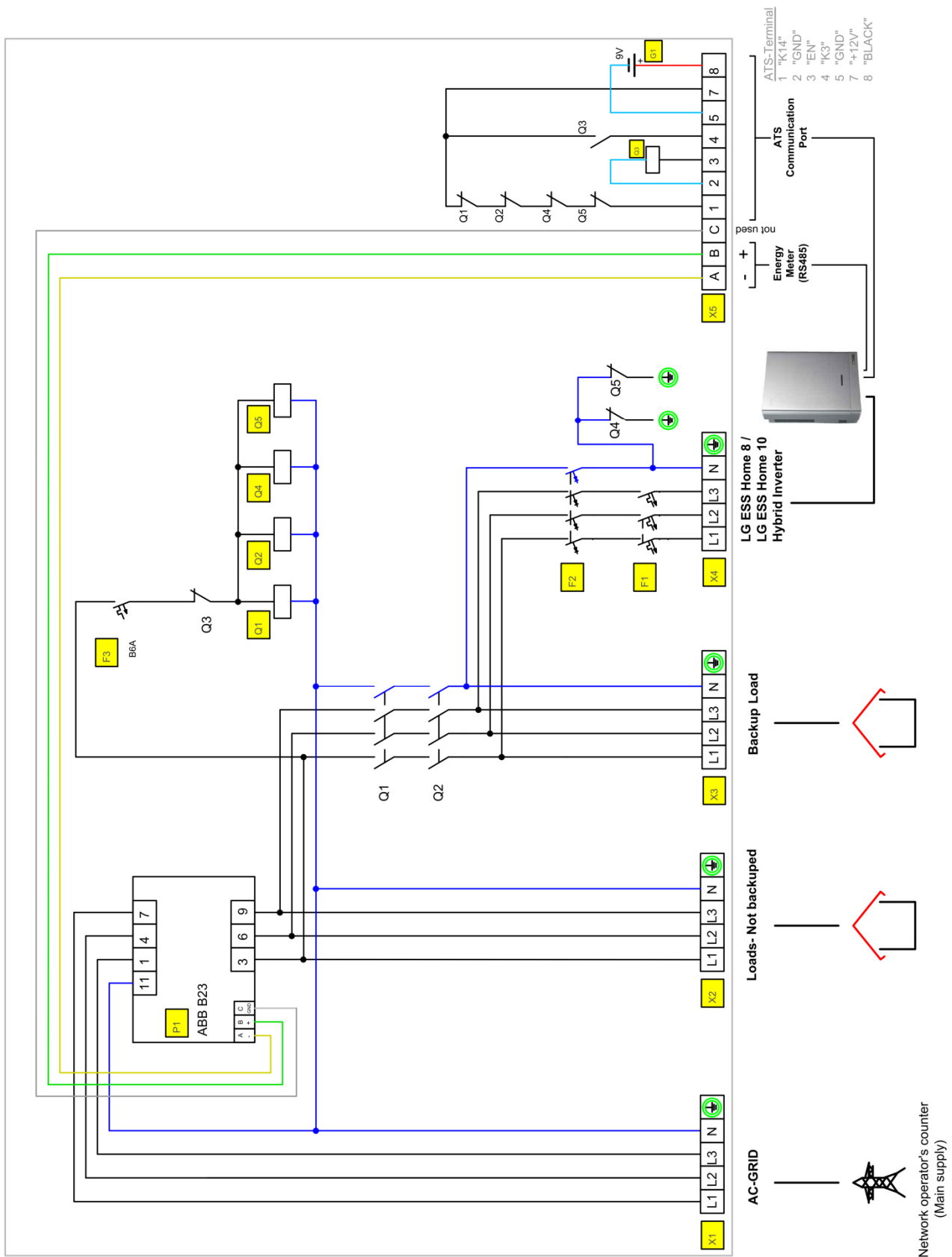
enwitec-order-number	10013677_V1.0
Customer-article-number	ATS-Box für LG ESS Home 8 und LG ESS Home 10
Match code	<i>3PH_LG_BBDAP_20KW_3PH_1.0</i>
Application	LG ESS Home 8/ LG ESS Home 10 D010KE1N211 D008KE1N211
Battery-inverter	• either ESS Home 8 or ESS Home 10
Monitoring & Control	• Smart meter integrated - type ABB/B23
Black start	• Integrated Lithium metal 9V battery for ESS
Grid structure	• 3PH 230/400V - TT or TN-S System; NOT ANY TN-C System



DATA SHEET

Automatic Transfer Switch Box (ATS-Box) for LG Electronics

Circuit diagram



DATA SHEET

Automatic Transfer Switch Box (ATS-Box) for LG Electronics

TECHNICAL DATA

• = met "-" = not met

Nominal values

Rated operating voltage AC	3PH [V]	230/400
Rated insulation voltage	[V]	400
Operating frequency	[Hz]	50
Max. prospective* short circuit current	[kA]	10
Permitted grid structure		TT/TN-S
Max. value of pre-fuses	[A]	63(gL/gG)
Grid disconnection		All pole
Max. thermal Power	[kW]	20
Standby-loss ca.	[W]	15

Circuit breakers (MCBs)

F1	ESS Home 8/10	1 x 3C25
F3	Control circuit "Grid"	1 x B6A

Residual current device (RCCB) - type "A" selective

F2	ESS Home 8/10	300mA
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Contactors IEC/EN61095; IEC/EN 60947-1; IEC 60947-5-1

Q1/Q2	"Grid disconnection" AC1[A]	63
Q4/Q5	"Grounding device" AC1[A]	25
Q3	"Communication" AC1[A]	20
Q1/Q2/Q4/Q5	"Control voltage" AC[V]	230
Q3	"Control voltage" DC[V]	12
Hum-free		•

Black start's battery (G1)

Capacity (nominal)	[mAh]	1.200
Voltage range	DC[V]	5,4 ...9,9
Technology		Li-metal

Connections/terminals - Max. cross section (Cu)

X1	"AC-Grid" [mm ²]	16(25)
X2	"Loads - Not backuped" [mm ²]	16(25)
X3	"Backup Load" [mm ²]	16(25)
X4	"ESS Home 8/ESS Home 10" [mm ²]	16(25)
 X5	"Equipotential bonding" [mm ²]	16(25)
X5	"ATS-communication" [mm ²]	1,5(2,5)

Cable glands - Clamping range [Ø mm]

X1	"AC-Grid" M32/M40	13-21/16-28
X2	"Loads - Not backuped" M32/M40	13-21/16-28
X3	"Backup Load" M32	13-21
X4	"ESS Home 8/ESS Home 10" M32	13-21
 X5	"Equipotential bonding" M20	7-13
X5	"ATS-communication" 2 x M20	7-13

General data

Width	[mm]	338
Height	[mm]	622
Depth	[mm]	161
Weight ca.	[kg]	11
Operating temperature range	[°C]	-25...+40
Temperature - 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 (EN 61140)		II
Case material		Polycarbonate
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		ABB
Type		B23

Miscellaneous

Customer tariff number		85371098
classification of Lithium battery (UN3091) (Observe the safety data sheet!)		Class 9

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