

Designation	Mains switching box for KOSTAL PLENTICORE G3
Application	For KOSTAL PLENTICORE G3, with direct connection to the box: Retrofitting residual current circuit breaker and/or circuit breaker possible
Region	Germany, Switzerland
network separation	All-pole or three-pole isolation (initially configurable using jumpers)
Permissible network types Network connection	TN-C/TN-S/TT
Permissible network types Consumer system	TN-S/TT (no TN-C!)
control and monitoring	KOSTAL Smart Energy Meter (KSEM) or KOSTAL Energy Meter (KEM-C/KEM-P) can be optionally integrated (retrofitting)

All values in [mm]

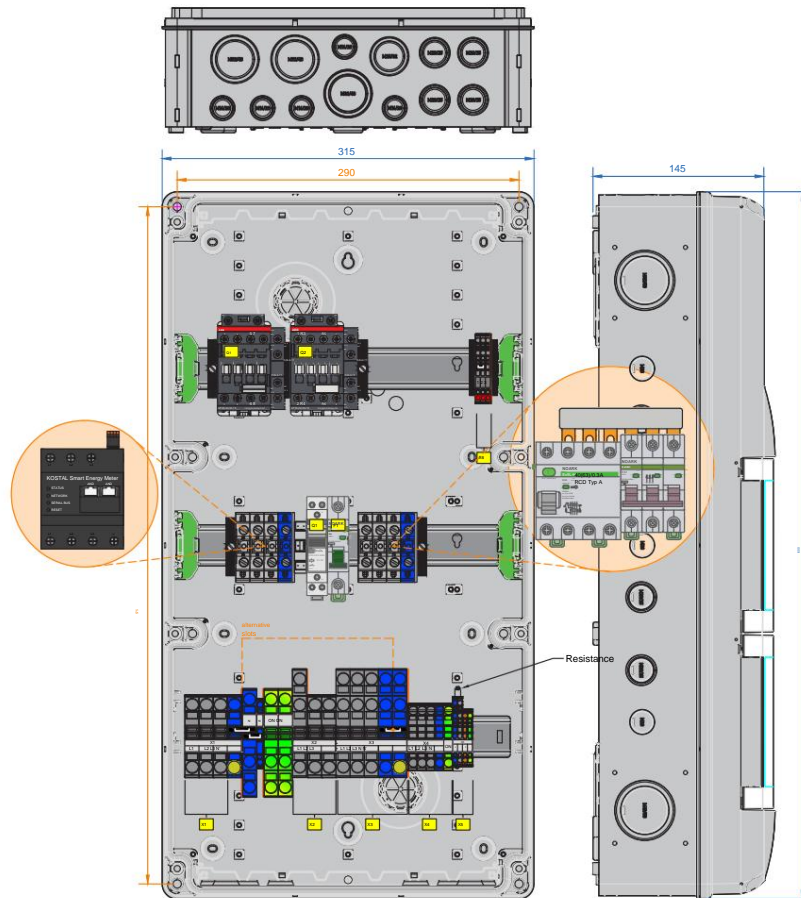
Dimensions  
attachment points

"blue"  
„orange“

Internal arrangement and components may vary depending on the variant!

Minimum distances

above	200
below	200
laterally	100
in front	800



**SCOPE OF DELIVERY**

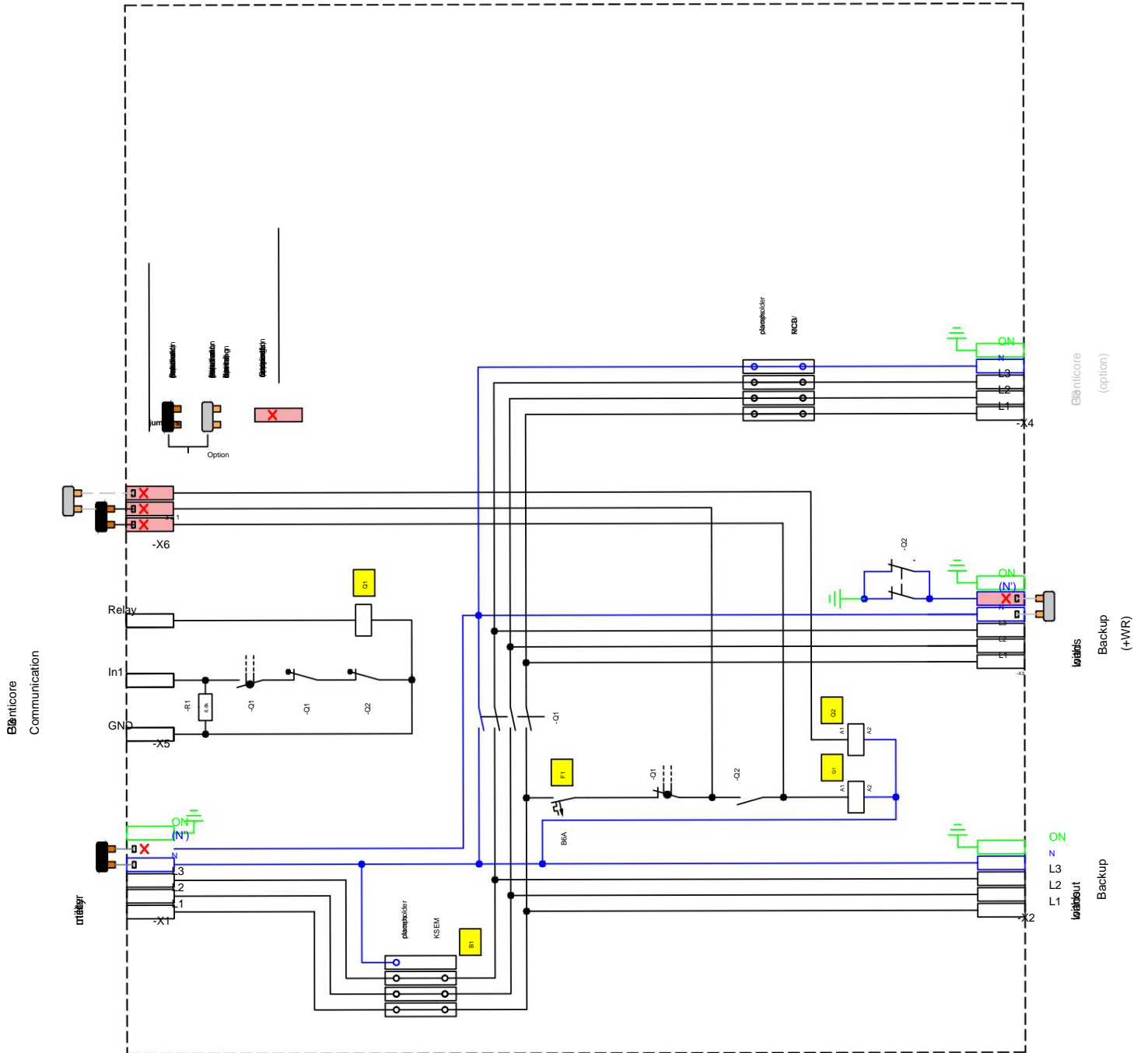
Number of designations		Number of designations	
1	General Installation Instructions	3	Cable gland M40 including lock nut
4	cable gland M16 including lock nut	2	Split molded sealing insert GFD25 (data cable RJ45 connector)
2	Cable gland M25 including lock nut	1 sentence	jumpers (for network isolation configuration)
4	Cable gland M32 including lock nut	1 set of cover caps for fastening screws	

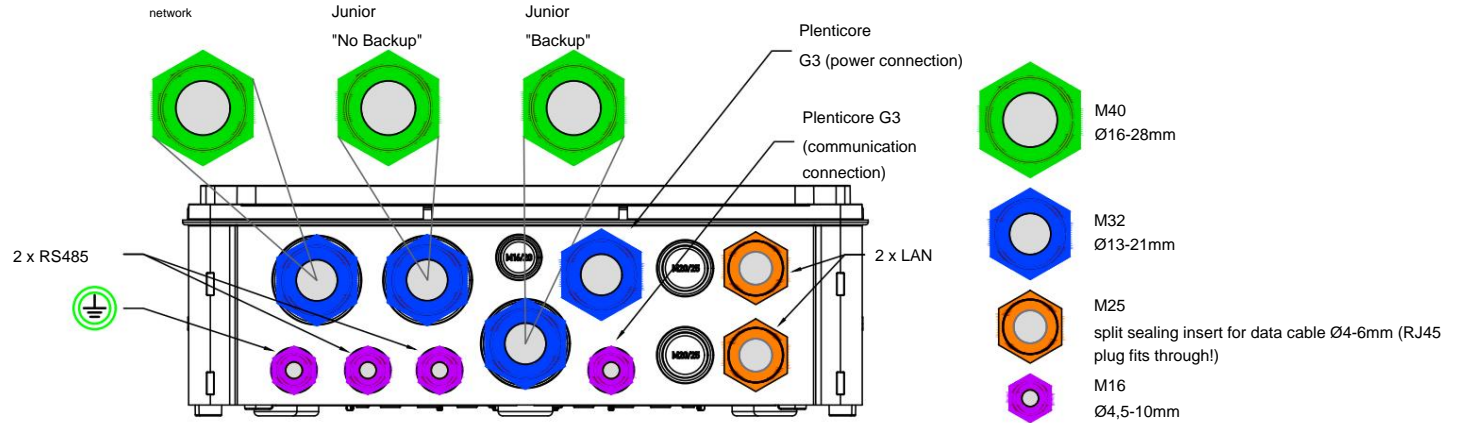
Art.No. 10017468

Network Chalkbox | 3PH\_COAST\_BBD3(A)P\_63A\_OF-CH

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## CIRCUIT DIAGRAM



 CABLE INLET AND CONNECTIONS


terminal block	Cable entry clamping range [mm]	strand type	max. cross-section [mm <sup>2</sup> ]	stripping length [mm]	Vein sleeve
X1 - network	M32	single-stranded	16	18 - 20	ü
	M40	fine-stranded/multi-stranded fine-stranded	25 16		
X2 - Loads without Backup	M32	single-stranded	16	18 - 20	ü
	M40	fine-stranded/multi-stranded fine-stranded	25 16		
X3 - Loads with Backup	M32	single-stranded	16	18 - 20	ü
	M40	fine-stranded/multi-stranded fine-stranded	25 16		
LAN data line	2 x M25	split sealing insert for RJ45 connector	according to KOSTAL specifications		
RS485 data line 2 x M16		5 - 10	according to KOSTAL specifications		
X4 - PLENTICORE G3 power connection	M32	single-stranded	10	13 - 15	ü
		fine-stranded/multi-stranded fine-stranded	10 6		
X5 - PLENTICORE G3 communication port	M16	single-stranded	2,5	9 - 11	ü
		fine-stranded	2,5		
		fine-stranded	1,5		
ON	M16	single-stranded	16	18 - 20	ü
		fine-stranded/multi-stranded fine-stranded	25 25		

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 TECHNICAL DATA

## COMBINATION POSSIBILITIES NETWORK FORMS

• applicable / - not applicable

grid connection point	consumer system in grid operation	setting options (via jumpers)
TN-C	TN-S	three-pole (recommended) or all-pole
<b>TN-C</b>	<b>TN-C</b>	<b>FORBIDDEN!</b>
TN-S	TN-S	omnipolar
TT	TT	omnipolar

## NOMINAL VALUES

rated voltage Ue	[In]	3PH - 230/400
rated insulation voltage Ui	[In]	400
rated impulse withstand voltage Uimp	[kV]	4
rated frequency fn	[Hz]	50/60+/-5%
Conditional rated short-circuit current Icc	[kA]	10
Rated current Ing at rated load factor RDF 1 and ta 40°C - via Q1 and X3	[A]	30
Rated current Ing at rated load factor RDF 1 and ta 25°C - via Q1 and X3	[A]	43,5
Short-term maximum operating current IB via X2	[A]	ÿ 63
Maximum thermal operating current IB via X2	[A]	50
Rated current of the mains switching box total InA	[A]	I of+ IB ÿ 63
network separation		all-pole or three-pole
Max. mains-side backup fuse value (gL/gG)	[A]	63
Standby losses, approx.	[IN]	6

## SWITCHING TIMES MAINS / ISLAND OPERATION (STANDBY POWER)

mains operation to emergency power operation - mains failure	[s]	~ 30
backup power operation to mains operation - grid return	[s]	~ 60

† Ventilation valves (passive) required; protection class is thereby reduced from IP65 to IP44 (see accessories).

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## CONFIGURATION MAINS ISOLATION USING JUMPERS (included in delivery)

• applicable / - not applicable

TROPICAL			
X1	inserted between NN'	16(25) mm <sup>2</sup>	
X6	inserted between 1-2	1.5(2.5) mm <sup>2</sup>	
ALL POLY			
X3	inserted between NN'	16(25) mm <sup>2</sup>	
X6	inserted between 2-3	1.5(2.5) mm <sup>2</sup>	

## POWER CONNECTION PLENTICORE G3 (alternative)

When connecting the PLENTICORE G3 in the mains switching box and external safety devices (residual current circuit breaker and/or circuit breaker are available on site)  $\dot{y}$  connection to X3 or X4.

When connecting the PLENTICORE G3 in the mains switch box and internal protection  $\dot{y}$  connection only to X4: The placeholder terminals in front of X4 are removed and a residual current device and/or circuit breaker are installed on site. 7 sub-units (1 TE = 17.8 mm) are available. Recommendation: In the TT network (all-pole separation), install a 300 mA residual current device to comply with the protective measure "automatic shutdown of the power supply". The nominal currents of the circuit breakers can be found in the recommendations of KOSTAL with regard to the performance classes of the PLENTICORE G3.

## INSTALLATION COMPONENTS

F1	circuit breaker for control circuit	[A]	B6
Q1	mains disconnecter	AC1 [A]	55
Q2	contactor for earthing device	AC1 [A]	30
Q1	locking relays (forced-guided contacts)	AC1 [A]	10

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## GENERALLY

• applicable / - not applicable

Dimensions WxHxD (without screw connections)	[mm]	315 x 600 x 145
Weight, approx.	[kg]	7,5
Operating temperature range ta at RDF1 and Ing 43.5 A Operating	[°C]	-25...+25
temperature range ta at RDF1 and Ing 30 A Temperature -	[°C]	-25...+40
Transport/Storage (24 hours 70°C)	[°C]	-25...+55
Humidity - condensing allowed	•/-	.
Humidity - permissible range	[%]	5...95% (at IP65) / 5...80% (at IP44)
Max. installation height above sea level	[m]	2000
protection class IP (EN 60529)		65 - delivery condition / 44 - with ventilation valves
Outdoor suitability (protected area)	•/-	.
installation type		interior
protection class (EN 61140)		II
housing material		Polycarbonate
RoHS-conform (2011/65/EU)	•/-	.
case color		similar to RAL 7035
Lid		transparent folding door
Montageart		wall mounting
closure type		without tools

## MISCELLANEOUS

customs tariff number		85371098
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## ACCESORIES

Set of ventilation valves, to be used at InA > approx. 30 A (max. 2 sets possible, at least 1 set required)		10017652 (enwitec)
Set consisting of:		
2 x ventilation valve		036579 (LeGran)
2 x reduction insert		M40/M32
2 x lock nut		M40

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 **EC DECLARATION OF CONFORMITY**

The product, Designation: **3PH\_KOSTAL\_BBD3(A)P\_63A\_DE-CH**

Article number: **10017468**

Manufacturer: **enwitec electronic GmbH  
Scherrwies 2  
84329 Rogglfing**

Description: **switching device**

to which this declaration refers is in conformity with the following standards or normative documents:

<b>EN 61439-1</b>	<b>low-voltage switchgear and controlgear assemblies</b>
<b>EN 61439-2</b>	<b>energy switchgear assemblies</b>
<b>EN 61439-3</b>	<b>Installation distributor for operation by laypersons (DBO)</b>

and complies with the provisions of the following EC Directive(s):

**Low Voltage Directive 2014/35/EU**

**Material Verification 2011/65/EU (RoHS)**

Year of affixing the CE marking: **2024**

Date of issue: **01.03.2024**

enwitec electronic GmbH



Name / Signature

Johann Wimmer  
management