


44420221	DATA SHEET	
Valid from: 21.10.2022	EPIC® POWERLOCK A1 C	

Description

- Single-pin circular connector for mobile power distribution, electro motors and generators
- Resistant to mechanical influences in harsh environmental conditions
- Connectors in harmonised colours according to European standards
- Every colour has a different coding to prevent incorrect plugging



General Characteristics

Series	A1 C
Version	panel-mount box, drain for contact with M12 threaded post
Rated voltage (V)	1000 V
Rated impulse voltage	8 kV
Rated current (A)	max. crimp 660 A
Contacts	Crimp termination: copper, silver-plated
Number of contacts	1
Short circuit withstand rating	16 kA for 1 second, 32 kA peak (300 mm ² cable in 240 mm ² contact)
Termination methods	Crimp termination: 35 - 300 mm ²
Protection	IP 67 (maximum, dependant on cable gland used) IP 20 (unmated)
Cycle of mechanical operation	500
Temperature range	-25°C to +125°C
Degree of soiling	3

Product Variations

Article- Number	Article	Fastening type	Pin configuration
Type POWERLOCK A1, panel-mount box, drain for contact with M12 threaded post			
44420221	POWERLOCK A1 PE/GN	Ø5,5mm (4x)	PE, Green
44420222	POWERLOCK A1 N/BL	Ø5,5mm (4x)	N, Blue
44420223	POWERLOCK A1 L1/BN	Ø5,5mm (4x)	L1, Brown
44420224	POWERLOCK A1 L2/BK	Ø5,5mm (4x)	L2, Black
44420225	POWERLOCK A1 L3/GY	Ø5,5mm (4x)	L3, Grey
L1/red for direct current applications in conjunction with L2/black			
44420316	POWERLOCK A1 L1/RD	Ø5,5mm (4x)	L1, Red


Materials and Surfaces

Housing	PBT
Contact retention pin	PA

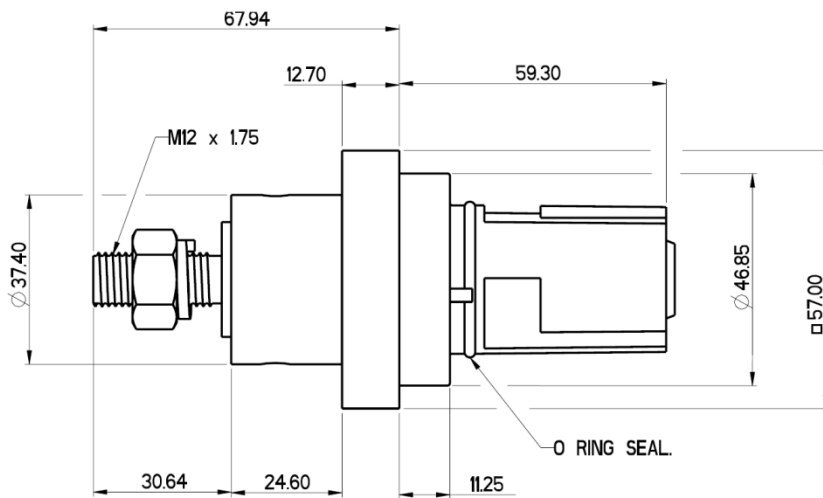
Approvals

VDE-Approval, VDE-REG.-No.	D042
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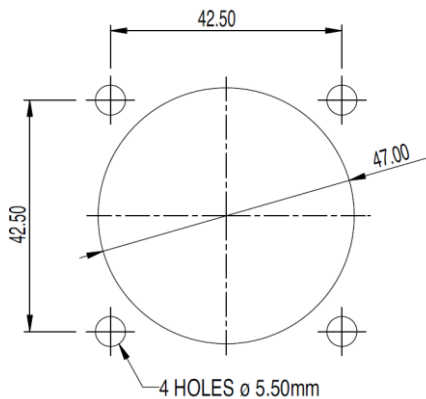
Creator: STKU3/PDP Released: IVSE1/PDP	Document: DB44420221EN Version: 05	Page 1 of 4
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Technical Drawings

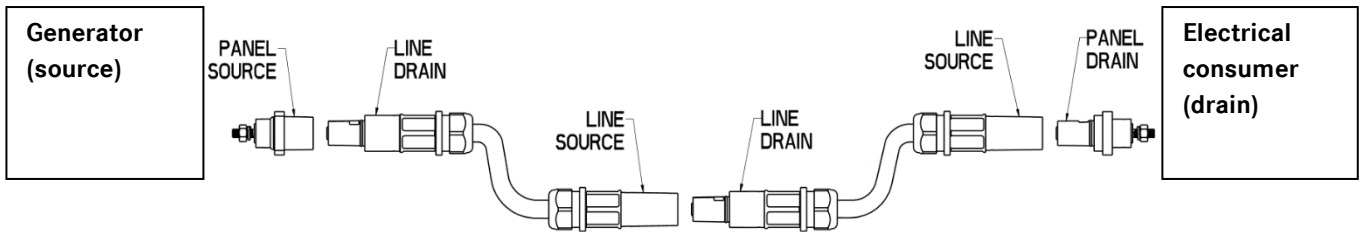










Panel cutout



Creator: STKU3/PDP Released: IVSE1/PDP	Document: DB44420221EN Version: 05	Page 2 of 4
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System description



	Line connector	Panel mount connector	Crimp contact	Screw contact
Source	D6 	A6 		
Drain	F6 	A1 		

Step 1) Selection of housings

Step 2) Selection of SKINTOP® cable gland M40 for the housing (only cable connectors):

e.g. 3111250 (black), 53111450 (light grey), 53111050 (silver grey)

Step 3) Decision: 400 A / max. 120 mm² → Screw contacts

660 A / max. 240 mm² → Crimp contacts

! Screw and crimp contacts are not allowed to be mixed!

Step 4) Selection of contacts:

Crimp contacts

	35 mm ²	50 mm ²	70 mm ²	95 mm ²	120 mm ²	150 mm ²	185 mm ²	240 mm ² (NEW)
Quelle (Source)	44420290	44420291	44420292	44420236	44420238	44420257	44420239	44420324
Senke (Drain)	44420293	44420294	44420295	44420231	44420233	44420256	44420234	44420339

Attention:

The effective copper cross-sections of cables are significantly smaller than the electrical values given.

We always recommend qualifying the cable-contact combination.


(From 120 mm² strong effects on the quality of the connection.

Example: 240 mm² cables fit better in 185 mm² contacts.)

Contacts with M12 thread (for cable lug Ø12 mm)

	M12-thread 660 A	M12-thread 400 A
Source	 44420261	 44420242
Drain	 44420260	 44420241

Tightening torque M12 nut: 27,5 Nm - 31,4 Nm

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Robust



Reliability



Waterproof

Application range

For renewable energy plants e.g. wind power
 For mobile and stationary power distribution
 For the connection of motors, transformers and generators
 Light & sound technology

Product features

Panel-mount base, straight entry
 Contact fixing by contact retention pin, each pin can only be used once
 Housing without contact, order contact separately

Remark

Photographs are not to scale and do not represent detailed images of the respective products.

Creator: STKU3/PDP Released: IVSE1/PDP	Document: DB44420221EN Version: 05	Page 4 of 4
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