

**FP BOX ON/OFF VG M20 3AN**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergsstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)



The FieldPower® power distributors support error-free installation in an extremely short space of time. Branches and functions integrated in the cover can simply be plugged in. Robust with high protection degree.

**General ordering data**

Version	FieldPower® power distribution box, 3-phase AC, IP65, in complete state, glass-fibre reinforced polycarbonate, PUSH IN, Insulation displacement connection (IDC), Maintenance switch
Order No.	<a href="#">8000056232</a>
Type	FP BOX ON/OFF VG M20 3AN
GTIN (EAN)	4064675385950
Qty.	1 items

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## Technical data

## Approvals

ROHS	Conform
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## Dimensions and weights

Depth	165 mm	Depth (inches)	6.4961 inch
Height	181 mm	Height (inches)	7.126 inch
Width	104 mm	Width (inches)	4.0945 inch
Net weight	2259.79 g		

## Temperatures

Storage temperature	-30 °C...55 °C	Operating temperature	-30 °C...45 °C
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## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1, Potassium perfluorobutane sulfonate 29420-49-3
SCIP	7645f3b1-6db9-495d-9e21-ab1d894aff05

## Cable gland

Number of cable glands	1	Cable gland clamping area, min.	6 mm
Cable gland material	Polyamide 6	Cable gland clamping area, max.	12 mm

## Clamping capacity

Connection data - contact element Branch / Feed-in	Wire connection method	PUSH IN
	Blade size of operating tool	0.6 x 3.5 mm
	Stripping length	14.00 mm
	Number of poles	5
	Conductor connection cross-section, solid, max.	6 mm <sup>2</sup>
	Conductor connection cross-section, solid, min.	0.50 mm <sup>2</sup>
	Conductor connection cross-section, stranded, max.	6.00 mm <sup>2</sup>
	Conductor connection cross-section, stranded, min.	0.50 mm <sup>2</sup>
	Conductor connection cross-section, finely stranded, max.	10.00 mm <sup>2</sup>
	Conductor connection cross-section, finely stranded, min.	0.50 mm <sup>2</sup>
	Conductor connection cross-section, finest stranded, max.	6.00 mm <sup>2</sup>
	Conductor connection cross-section, finest stranded, min.	0.50 mm <sup>2</sup>
Connection data - contact element power bus	Wire connection method	Insulation displacement connection (IDC)
	Blade size of operating tool	0.6 x 3.5 mm
	Number of poles	5
	Conductor connection cross-section, solid, max.	6 mm <sup>2</sup>
	Conductor connection cross-section, solid, min.	1.50 mm <sup>2</sup>
	Conductor connection cross-section, stranded, max.	6.00 mm <sup>2</sup>
	Conductor connection cross-section, stranded, min.	2.50 mm <sup>2</sup>
	Conductor connection cross-section, finely stranded, max.	6.00 mm <sup>2</sup>

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## Technical data

Conductor connection cross-section, finely stranded, min.	2.50 mm <sup>2</sup>
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## General data

Insulating material	Polycarbonate	Enclosure material	glass-fibre reinforced polycarbonate
Silicone	No	Colour	black
Protection degree	IP65, in complete state	UL 94 flammability rating	5VA
Torque for lid screws	2 Nm	Lid attachment	TX20 screws
lockable	Yes	Type of mounting	Screw mounting, Fixing lugs
Installation advice	Lid screws included	Function	Maintenance switch
With cable gland	Yes	Can be coded	Yes, Coded on PE
Voltage type	3-phase AC	Number of poles	5
Number of connections / pole	1	Wire connection method	PUSH IN, Insulation displacement connection (IDC)
Type of connection, signal	M12, A-coded		

## Rated data acc. to IEC

Rated data acc. to IEC for plug-in connector	Voltage type	AC
	Number of phases	3
	Standard	IEC 60947-7-1, IEC 60947-7-2, IEC 61984
	Rated voltage	690 V
	Rated impulse withstand voltage	8.00 kV
	Rated current (3 loaded poles)	32 A
	Rated current (4 loaded poles)	25 A
Rated data acc. to IEC for contact element	Voltage type	AC
	Number of phases	3
	Standard	IEC 60947-7-1, IEC 60947-7-2
	Rated voltage	800 V
	Rated impulse withstand voltage	8.00 kV
	Rated current (3 loaded poles)	41 A
	Rated current (4 loaded poles)	25 A

## Rated data acc. to UL

Standards	not UL approved	
Rated data acc. to UL for contact element	Standard	UL 1059
	Note	for use with UL-listed TC-ER cables
	Conductor connection cross-section, AWG, max.	AWG 10
	Conductor connection cross-section, AWG, min. AWG 14	
	Rated voltage	600 V
	Rated current	30 A
Rated data acc. to UL for plug-in connector	Standard	UL 1059
	Note	for use with UL-listed TC-ER cables
	Conductor connection cross-section, AWG, max.	AWG 12
	Conductor connection cross-section, AWG, min. AWG 16	
	Rated voltage	600 V
	Rated current	20 A

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## Technical data

## Technical data Switch

Terminals - torque	0.8 Nm	Wire connection cross section AWG, max.	AWG 8
Switch type	ABB OT16FT3	Operating voltage	690 V
Wire connection cross section AWG, min.	AWG 18	Pollution severity	3
Power rating AC-23A	7.5 kW	Rated current AC-23A	16 A
auxiliary contact	ABB OA1G10	Switch according to standard	IEC 60947-3
Clamping range, plug, min.	0.75 mm <sup>2</sup>	Clamping range, plug, max.	10 mm <sup>2</sup>
Rated short-term current resistance ICW 500 A rms for 1 Second			

## Classifications

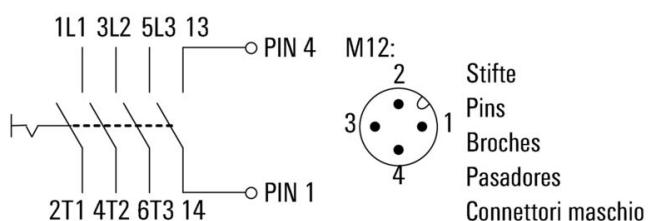
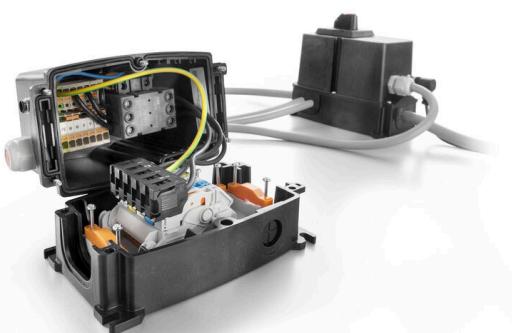
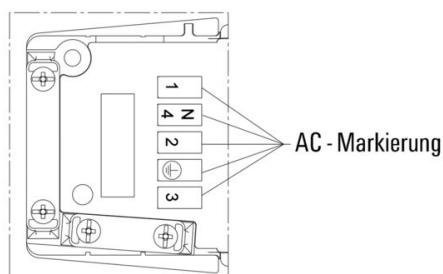
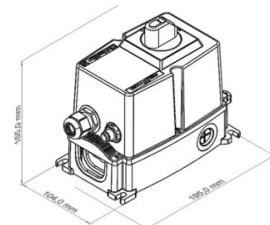
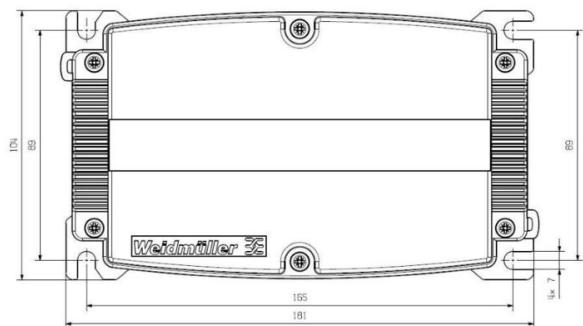
ETIM 8.0	EC000214	ETIM 9.0	EC000214
ETIM 10.0	EC000214	ECLASS 14.0	27-14-24-09
ECLASS 15.0	27-14-24-09		

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## Drawings



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## Accessories

## Seals



Intelligent cabling solutions can save you valuable time and money.

The FieldPower® modular system contains the right solution for every cabling task.

Foldable seals for the use of pre-assembled cables

Seals available with M16 and M20 connection thread

Integration of operating and signalling devices into the seal possible

## General ordering data

Type	RKDG D9 PT6	Version
Order No.	<a href="#">4329610000</a>	Field Power® sealing insert, Foldable seal, IP65 with corresponding
GTIN (EAN)	4032248668687	housing, IP65, with corresponding enclosure, EPDM
Qty.	10 ST	
Type	RKDG D11 PT6	Version
Order No.	<a href="#">4323210000</a>	Field Power® sealing insert, Foldable seal, IP65 with corresponding
GTIN (EAN)	4032248641215	housing, IP65, with corresponding enclosure, EPDM
Qty.	10 ST	
Type	RKDG D13 PT6	Version
Order No.	<a href="#">4323230000</a>	Field Power® sealing insert, Foldable seal, IP65 with corresponding
GTIN (EAN)	4032248641239	housing, IP65, with corresponding enclosure, EPDM
Qty.	10 ST	
Type	RKDG D15 PT6	Version
Order No.	<a href="#">4323220000</a>	Field Power® sealing insert, Foldable seal, IP65 with corresponding
GTIN (EAN)	4032248641222	housing, IP65, with corresponding enclosure, EPDM
Qty.	10 ST	
Type	RKDG D17 PT6	Version
Order No.	<a href="#">4324010000</a>	Field Power® sealing insert, Foldable seal, IP65 with corresponding
GTIN (EAN)	4032248641284	housing, IP65, with corresponding enclosure, EPDM
Qty.	10 ST	
Type	RKDG 2XD8.5 WG PT6	Version
Order No.	<a href="#">1114530000</a>	Field Power® sealing insert, Seal, IP54, with corresponding
GTIN (EAN)	4032248892624	enclosure, EPDM
Qty.	10 ST	

## Adapters



HQ adapter for FieldPower®

Tool-free installation like a FieldPower cable seal  
Suitable for the HQ 4/2, HQ 8 and HQ 17 plug-in connector inserts

Optionally with lockable protective cover (protection against being switched on again, in accordance with EN 60204-1)

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## Accessories

## General ordering data

Type	BG ARGH HQP ALU PT6	Version
Order No.	<a href="#">1532200000</a>	Adapter, Field Power® sealing insert, HQ adapter, IP65, with
GTIN (EAN)	4050118337433	corresponding enclosure, Polycarbonate, glass fibre reinforced,
Qty.	1 ST	lockable: No
Type	BG ARGH HQP ALU PT6 CS	Version
Order No.	<a href="#">1532210000</a>	Adapter, Field Power® sealing insert, HQ adapter, IP65, with
GTIN (EAN)	4050118337600	corresponding enclosure, Polycarbonate, glass fibre reinforced,
Qty.	1 ST	lockable: Yes

## Seals



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Foldable seals for the use of pre-assembled cables  
Seals available with M16 and M20 connection thread  
Integration of operating and signalling devices into the seal possible

## General ordering data

Type	DG DO PT6	Version
Order No.	<a href="#">4323240000</a>	Field Power® sealing insert, Blank seal, IP65, with corresponding
GTIN (EAN)	4032248641246	enclosure, EPDM
Qty.	10 ST	
Type	DG M16 PT6	Version
Order No.	<a href="#">2545540000</a>	Field Power® sealing insert, Seal with connection thread, IP65, with
GTIN (EAN)	4050118555523	corresponding enclosure, EPDM
Qty.	1 ST	
Type	DG M20 PT6	Version
Order No.	<a href="#">2545550000</a>	Field Power® sealing insert, Seal with connection thread, IP65, with
GTIN (EAN)	4050118555530	corresponding enclosure, EPDM
Qty.	1 ST	

## Tools



Sheathing stripper for PVC cables

## General ordering data

Type	AM 16	Version
Order No.	<a href="#">9204190000</a>	Tools, Sheathing strippers
GTIN (EAN)	4032248608133	
Qty.	1 ST	

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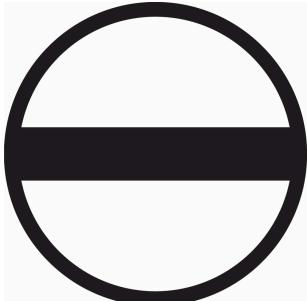
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## Accessories

Type	AM 25	Version
Order No.	<a href="#">9001540000</a>	Tools, Sheathing strippers
GTIN (EAN)	4008190138271	
Qty.	1 ST	

## Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

## General ordering data

Type	SDS 0.6X3.5X100	Version
Order No.	<a href="#">2749340000</a>	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade
GTIN (EAN)	4050118895568	thickness (A): 0.6 mm
Qty.	1 ST	

## DMS PRO



Weidmüller torque screwdrivers have an ergonomic design and are therefore ideal for use with one hand. They can be used without causing fatigue in all installation positions. Apart from that, they incorporate an automatic torque limiter and have a good reproducibility accuracy.

## General ordering data

Type	DMS PRO	Version
Order No.	<a href="#">1479120000</a>	Mounting tool
GTIN (EAN)	4050118287011	
Qty.	1 ST	

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## Accessories

## Bits E6,3 - Torx®



The Weidmüller bits are standard bits which are highly popular with users thanks to their good quality, large range and efficiency. The computer-controlled hardening method enables Weidmüller to guarantee a consistently high standard of quality.

The high-quality raw materials used make it possible to reach torques far higher than any of those specified in the relevant DIN standards:

- DIN 5261 for PH/PZ bits,
- DIN 5263 for slotted bits,
- Camcar standard for TORX bits

That means a long life at high torques and hence ideal conditions for standard situations.

The benefits:

- Suitable for all types of screws. Because of their excellent hardness values of 59-61 HRC, they are suitable for use with both manual and power tools.
- Good wearing resistance and thus a long life expectancy.
- Optimum fit in all DIN screws means low wear and optimum torque transmission.
- Manufactured to meet professional quality criteria according to relevant ISO standards with a consistently high standard of quality.

## General ordering data

Type	BIT E6,3 T20 X 150	Version
Order No.	<a href="#">2821510000</a>	Mounting tool
GTIN (EAN)	4064675359050	
Qty.	5 ST	

## Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

## General ordering data

Type	SDS 0.5X3.0X80	Version
Order No.	<a href="#">2749330000</a>	Screwdriver, Blade width (B): 3 mm, Blade length: 80 mm, Blade
GTIN (EAN)	4050118895551	thickness (A): 0.5 mm
Qty.	1 ST	