

FP BOX ON/OFF VG M20 3AN

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

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. | 8000056232 |
| Type | FP BOX ON/OFF VG M20 3AN |
| GTIN (EAN) | 4064675385950 |
| Qty. | 1 items |

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Technical data

Approvals

| | |
|------|---------|
| ROHS | Conform |
|------|---------|

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 |
|---------------------|----------------|-----------------------|----------------|

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 ² |
| | Conductor connection cross-section, solid, min. | 0.50 mm ² |
| | Conductor connection cross-section, stranded, max. | 6.00 mm ² |
| | Conductor connection cross-section, stranded, min. | 0.50 mm ² |
| | Conductor connection cross-section, finely stranded, max. | 10.00 mm ² |
| | Conductor connection cross-section, finely stranded, min. | 0.50 mm ² |
| | Conductor connection cross-section, finest stranded, max. | 6.00 mm ² |
| | Conductor connection cross-section, finest stranded, min. | 0.50 mm ² |
| | Connection data - contact element power bus | Wire connection method |
| Blade size of operating tool | | 0.6 x 3.5 mm |
| Number of poles | | 5 |
| Conductor connection cross-section, solid, max. | | 6 mm ² |
| Conductor connection cross-section, solid, min. | | 1.50 mm ² |
| Conductor connection cross-section, stranded, max. | | 6.00 mm ² |
| Conductor connection cross-section, stranded, min. | | 2.50 mm ² |
| Conductor connection cross-section, finely stranded, max. | 6.00 mm ² | |

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| | |
|---|----------------------|
| Conductor connection cross-section, finely stranded, min. | 2.50 mm ² |
|---|----------------------|

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 lockable | 2 Nm Yes | Lid attachment | TX20 screws |
| Installation advice | Lid screws included | Type of mounting | Screw mounting, Fixing lugs |
| With cable gland | Yes | Function | Maintenance switch |
| Voltage type | 3-phase AC | Can be coded | Yes, Coded on PE |
| Number of connections / pole | 1 | Number of poles | 5 |
| | | 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 data acc. to IEC for contact element | Rated current (4 loaded poles) | 25 A |
| | 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 ² | Clamping range, plug, max. | 10 mm ² |
| Rated short-term current resistance ICW 500 A rms for 1 Second | | | |

Classifications

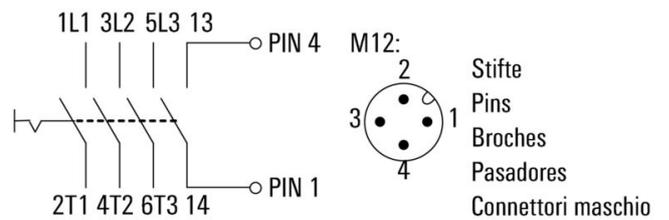
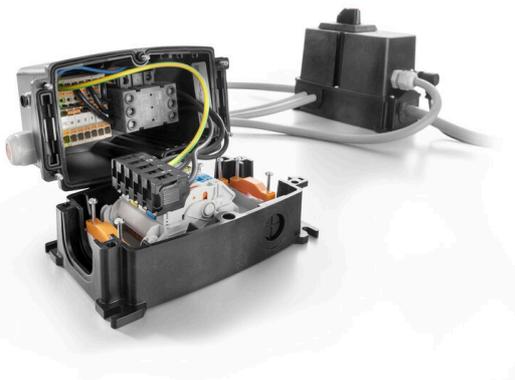
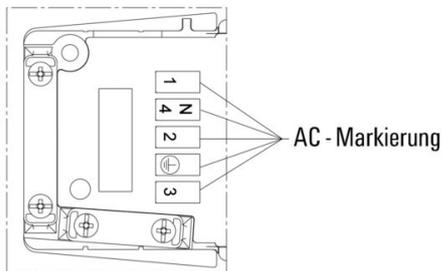
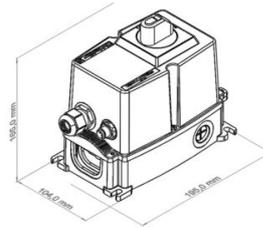
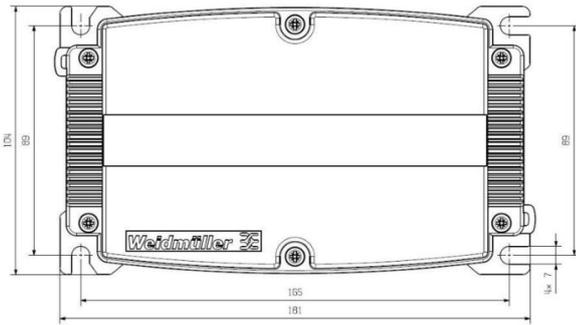
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|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000214 | ETIM 9.0 | EC000214 |
| ETIM 10.0 | EC000214 | ECLASS 14.0 | 27-14-24-09 |
| ECLASS 15.0 | 27-14-24-09 | | |

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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. | 4329610000 | 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. | 4323210000 | 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. | 4323230000 | 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. | 4323220000 | 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. | 4324010000 | 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. | 1114530000 | 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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General ordering data

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

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 | DG D0 PT6 | Version |
| Order No. | 4323240000 | Field Power® sealing insert, Blank seal, IP65, with corresponding enclosure, EPDM |
| GTIN (EAN) | 4032248641246 | |
| Qty. | 10 ST | |
| Type | DG M16 PT6 | Version |
| Order No. | 2545540000 | Field Power® sealing insert, Seal with connection thread, IP65, with corresponding enclosure, EPDM |
| GTIN (EAN) | 4050118555523 | |
| Qty. | 1 ST | |
| Type | DG M20 PT6 | Version |
| Order No. | 2545550000 | Field Power® sealing insert, Seal with connection thread, IP65, with corresponding enclosure, EPDM |
| GTIN (EAN) | 4050118555530 | |
| Qty. | 1 ST | |

Tools



Sheathing stripper for PVC cables

General ordering data

| | | |
|------------|----------------------------|----------------------------|
| Type | AM 16 | Version |
| Order No. | 9204190000 | Tools, Sheathing strippers |
| GTIN (EAN) | 4032248608133 | |
| Qty. | 1 ST | |

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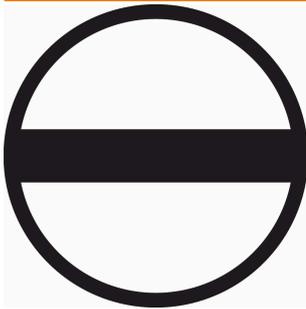
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Accessories

| | | | |
|------------|----------------------------|----------------------------|--|
| Type | AM 25 | Version | |
| Order No. | 9001540000 | 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. | 2749340000 | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm | |
| GTIN (EAN) | 4050118895568 | | |
| 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. | 1479120000 | 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. | 2821510000 | 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. | 2749330000 | Screwdriver, Blade width (B): 3 mm, Blade length: 80 mm, Blade thickness (A): 0.5 mm | |
| GTIN (EAN) | 4050118895551 | | |
| Qty. | 1 ST | | |