

BVF 7.62HP/05/180 SN BK BX
Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

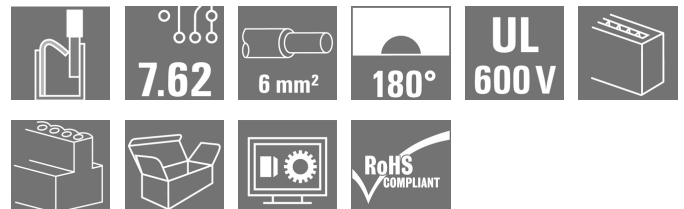
32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com

Product image


180° female header with PUSH IN connection technology for field wiring in 6 mm² with 7.62 pitch.

Meets the requirements as per UL1059 600 V class C and IEC 61800-5-1. Ideal touch-safe solution for the power output.

The self-locking (optionally also screwable) middle flange reduces the space requirements by one pitch width in comparison with conventional solutions.

Variants: without flange, external flange, middle flange with detent fastening and optionally additional screw mount.

General ordering data

| | |
|--------------|---|
| Version | PCB plug-in connector, female plug, 7.62 mm, Number of poles: 5, 180°, PUSH IN, Clamping range, max. : 10 mm ² , Box |
| Order No. | 1060420000 |
| Type | BVF 7.62HP/05/180 SN BK BX |
| GTIN (EAN) | 4032248810109 |
| Qty. | 40 pc(s). |
| Product data | IEC: 1000 V / 57 A / 0.5 - 10 mm ² UL: 600 V / 39 A / AWG 24 - AWG 8 |
| Packaging | Box |

Creation date November 23, 2020 8:37:09 AM CET

BVF 7.62HP/05/180 SN BK BX

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmuller.com

www.weidmuller.com

Technical data

Dimensions and weights

| | | | |
|------------|----------|-----------------|------------|
| Depth | 44.7 mm | Depth (inches) | 1.76 inch |
| Height | 20 mm | Height (inches) | 0.787 inch |
| Net weight | 27.375 g | | |

System Parameters

| | | | |
|--|--------------------------------------|--|-------------------|
| Product family | OMNIMATE Power - series BV/SV 7.62HP | Type of connection | Field connection |
| Wire connection method | PUSH IN | Pitch in mm (P) | 7.62 mm |
| Pitch in inches (P) | 0.3 inch | Conductor outlet direction | 180° |
| Number of poles | 5 | L1 in mm | 30.48 mm |
| L1 in inches | 1.2 inch | Number of rows | 1 |
| Pin series quantity | 1 | Rated cross-section | 6 mm ² |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch | Touch-safe protection acc. to DIN VDE 0470 | IP 20 |
| Volume resistance | 4.50 mΩ | Can be coded | Yes |
| Stripping length | 12 mm | Screwdriver blade | 0.6 x 3.5 |
| Plugging cycles | 25 | Plugging force/pole, max. | 17 N |
| Pulling force/pole, max. | 15 N | | |

Material data

| | | | |
|---------------------------------------|----------|---------------------------------------|---------------------|
| Insulating material | PA GF | Colour | black |
| Colour chart (similar) | RAL 9011 | Insulating material group | II |
| Comparative Tracking Index (CTI) | ≥ 500 | Insulation strength | ≥ 10 ⁸ Ω |
| UL 94 flammability rating | V-0 | Contact material | Copper alloy |
| Contact surface | tinned | Layer structure of plug contact | 6...8 μm Sn glossy |
| Storage temperature, min. | -40 °C | Storage temperature, max. | 70 °C |
| Operating temperature, min. | -50 °C | Operating temperature, max. | 125 °C |
| Temperature range, installation, min. | -25 °C | Temperature range, installation, max. | 125 °C |

Conductors suitable for connection

| | | | |
|---|---------------------|---|--|
| Clamping range, min. | 0.5 mm ² | Clamping range, max. | 10 mm ² |
| Solid, min. H05(07) V-U | 0.5 mm ² | Solid, max. H05(07) V-U | 10 mm ² |
| Stranded, max. H07V-R | 10 mm ² | Flexible, min. H05(07) V-K | 0.5 mm ² |
| Flexible, max. H05(07) V-K | 10 mm ² | w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.5 mm ² |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 6 mm ² | w. wire end ferrule, DIN 46228 pt 1, min. | 0.5 mm ² |
| w. wire end ferrule, DIN 46228 pt 1, max. | 10 mm ² | Reference text | The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage. |

BVF 7.62HP/05/180 SN BK BX

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0


Fax. +49 5231 14-2083

Technical data


Rated data acc. to IEC

| | | | |
|---|------------------------|---|-------------------|
| tested acc. to standard | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C) | 57 A |
| Rated current, max. number of poles (Tu=20°C) | 51 A | Rated current, min. number of poles (Tu=40°C) | 57 A |
| Rated current, max. number of poles (Tu=40°C) | 45 A | Rated voltage for surge voltage class / pollution degree II/2 | 1,000 V |
| Rated voltage for surge voltage class / pollution degree III/2 | 1,000 V | Rated voltage for surge voltage class / pollution degree III/3 | 800 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 | 6 kV | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 8 kV |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 8 kV | Short-time withstand current resistance | 3 x 1s with 420 A |

Rated data acc. to CSA

| | | | |
|-----------------------------------|---|-----------------------------------|----------------|
| Institute (CSA) |  | Certificate No. (CSA) | 200039-1121690 |
| Rated voltage (Use group B / CSA) | 600 V | Rated voltage (Use group C / CSA) | 600 V |
| Rated voltage (Use group D / CSA) | 600 V | Rated current (Use group B / CSA) | 33 A |
| Rated current (Use group C / CSA) | 33 A | Rated current (Use group D / CSA) | 5 A |
| Wire cross-section, AWG, min. | AWG 24 | Wire cross-section, AWG, max. | AWG 8 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Rated data acc. to UL 1059

| | | | |
|---------------------------------------|---|---------------------------------------|--------|
| Institute (cURus) |  | Certificate No. (cURus) | E60693 |
| Rated voltage (Use group B / UL 1059) | 600 V | Rated voltage (Use group C / UL 1059) | 600 V |
| Rated voltage (Use group D / UL 1059) | 600 V | Rated current (Use group B / UL 1059) | 39 A |
| Rated current (Use group C / UL 1059) | 39 A | Rated current (Use group D / UL 1059) | 5 A |
| Wire cross-section, AWG, min. | AWG 24 | Wire cross-section, AWG, max. | AWG 8 |
| Reference to approval values | Specifications are maximum values, details - see approval certificate. | | |

Packing

| | | | |
|-----------|--------|------------|--------|
| Packaging | Box | VPE length | 45 mm |
| VPE width | 135 mm | VPE height | 345 mm |

Type tests

| | | |
|------------------------------|------------|--|
| Test: Durability of markings | Standard | DIN EN 61984 section 7.3.2 / 09.02 taking pattern from DIN EN 60068-2-70 / 07.96 |
| | Test | mark of origin, type identification, pitch |
| | Evaluation | available |
| | Test | durability |
| | Evaluation | passed |

BVF 7.62HP/05/180 SN BK BX
Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

DIN EN 61984 section 6.3 and 6.9.1 / 09.02,

DIN EN 60947-1 section 8.2.4.5.1 / 04.08

info@weidmueller.com

www.weidmueller.com

Technical data

| | | | | |
|---|----------------|---|------------------------------|--|
| Test: Misengagement (Non-interchangeability) | Standard | DIN EN 61984 section 6.3 and 6.9.1 / 09.02, DIN EN 60947-1 section 8.2.4.5.1 / 04.08 | | |
| | Test | 180° turned with coding elements | | |
| | Evaluation | passed | | |
| | Test | 180° turned without coding elements | | |
| Test: Clampable cross section | Evaluation | passed | | |
| | Standard | DIN EN 60999-1 section 7 and 9.1 / 12.00, DIN EN 60947-1 section 8.2.4.5.1 / 04.08 | | |
| | Conductor type | Type of conductor and conductor cross-section | solid 0.5 mm ² | |
| | | Type of conductor and conductor cross-section | stranded 0.5 mm ² | |
| | | Type of conductor and conductor cross-section | solid 6 mm ² | |
| | | Type of conductor and conductor cross-section | stranded 6 mm ² | |
| | | Type of conductor and conductor cross-section | AWG 24/1 | |
| | | Type of conductor and conductor cross-section | AWG 24/19 | |
| | | Type of conductor and conductor cross-section | AWG 14/1 | |
| Type of conductor and conductor cross-section | | AWG 14/19 | | |
| Evaluation | passed | | | |
| Test for damage to and accidental loosening of conductors | Standard | DIN EN 60999-1 section 9.4 / 12.00 | | |
| | Requirement | 0.3 kg | | |
| | Conductor type | Type of conductor and conductor cross-section | H05V-U0.5 | |
| | | Type of conductor and conductor cross-section | H05V-K0.5 | |
| | | Type of conductor and conductor cross-section | AWG 20/1 | |
| | | Type of conductor and conductor cross-section | AWG 20/19 | |
| | Evaluation | passed | | |
| | Requirement | 1.4 kg | | |
| | Conductor type | Type of conductor and conductor cross-section | H07V-U6 | |
| | | Type of conductor and conductor cross-section | H07V-K6 | |
| Type of conductor and conductor cross-section | | AWG 10/1 | | |
| Type of conductor and conductor cross-section | | AWG 10/19 | | |
| Evaluation | passed | | | |

BVF 7.62HP/05/180 SN BK BX

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Technical data

Fax. +49 5231 14-2083

DIN EN 60999-1 section 9.5 / 12.00

≥20 N info@weidmueller.com

| | | | | |
|---|----------------|---|-----------|-----------------------------|
| Pull-out test | Standard | DIN EN 60999-1 section 9.5 / 12.00 | | |
| | Requirement | ≥20 N info@weidmueller.com | | |
| | Conductor type | Type of conductor and conductor cross-section | H05V-U0.5 | and conductor cross-section |
| | | Type of conductor and conductor cross-section | H05V-K0.5 | |
| | | Type of conductor and conductor cross-section | AWG 20/1 | |
| | | Type of conductor and conductor cross-section | AWG 20/19 | |
| | Evaluation | passed | | |
| | Requirement | ≥80 N | | |
| | Conductor type | Type of conductor and conductor cross-section | H07V-U6 | |
| | | Type of conductor and conductor cross-section | H07V-K6 | |
| Type of conductor and conductor cross-section | | AWG 10/1 | | |
| Type of conductor and conductor cross-section | | AWG 10/19 | | |
| Evaluation | passed | | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC002638 | ETIM 7.0 | EC002638 |
| eClass 9.0 | 27-44-03-09 | eClass 9.1 | 27-44-03-09 |
| eClass 10.0 | 27-44-03-09 | eClass 11.0 | 27460202 |

Important note

IPC conformity Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.

Approvals

Approvals



| | |
|-----------------------|---------|
| ROHS | Conform |
| UL File Number Search | E60693 |

BVF 7.62HP/05/180 SN BK BX

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com

Technical data

Downloads

Approval/Certificate/Document of Conformity

[Declaration of the Manufacturer](#)

Brochure/Catalogue

[FL DRIVES EN](#)

[MB DEVICE MANUF. EN](#)

[FL DRIVES DE](#)

[CAT 2 PORTFOLIOGUIDE EN](#)

[FL HEATING ELECTR EN](#)

[FL APPL. INVERTER EN](#)

[FL_BASE_STATION_EN](#)

[FL ELEVATOR EN](#)

[FL POWER SUPPLY EN](#)

[FL 72H SAMPLE SER EN](#)

[PO OMNIMATE EN](#)

Engineering Data

[STEP](#)

Engineering Data

[EPLAN, WSCAD](#)

User Documentation

[Operating Instruction BVF](#)

[QR-Code product handling video](#)

BVF 7.62HP/05/180 SN BK BX

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

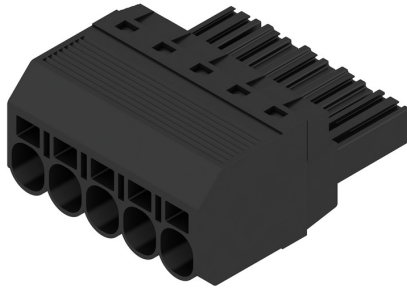
32760 Detmold

Tel. +49 5231 14-0

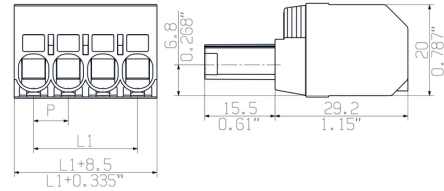
Fax. +49 5231 14-2083

Drawings

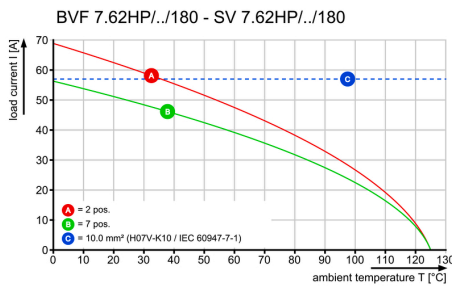
Product image



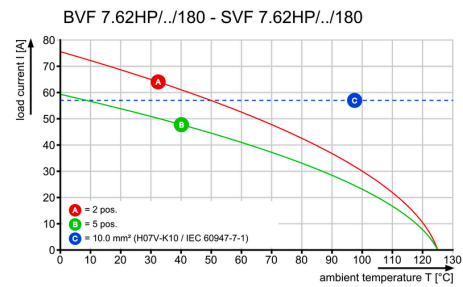
Dimensional drawing info@weidmueller.com



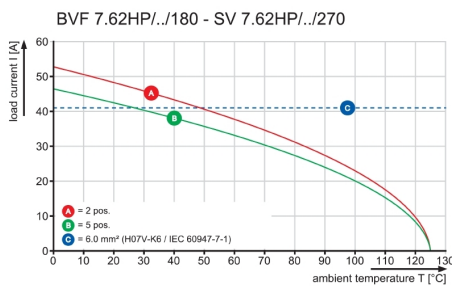
Graph



Graph



Graph



Product benefits



Installation without tools
Outlet direction: 90° und 180°