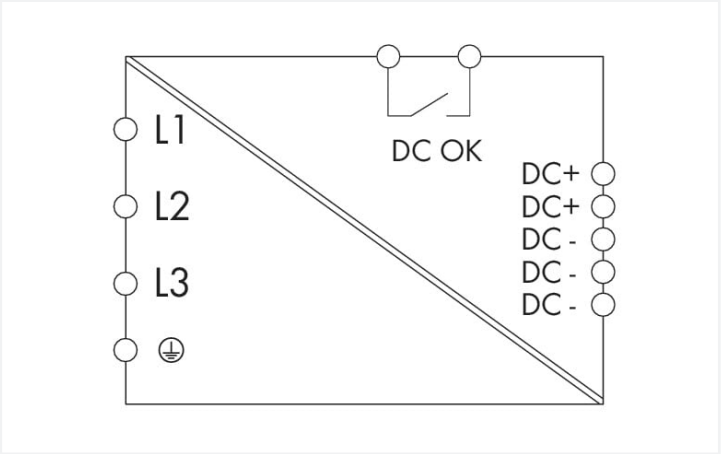




- Features:**
- Natural convection cooling when horizontally mounted
  - Encapsulated for use in control cabinets
  - Fast and tool-free termination via lever-actuated PCB terminal blocks
  - Bounce-free switching signal (DC OK) via optocoupler
  - Parallel operation
  - Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

| Technical data                     |                                                                                                                              |                                     |                                                                                                                                  |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Input                              |                                                                                                                              | Output                              |                                                                                                                                  |
| Phases                             | 2 / 3                                                                                                                        | Nominal output voltage $U_{o\ nom}$ | DC 24 V (SELV)                                                                                                                   |
| Nominal input voltage $U_{i\ nom}$ | (2 / 3) x AC 400 ... 500 V                                                                                                   | Output voltage range                | DC 22 ... 28 V (adjustable)                                                                                                      |
| Input voltage range                | (2 / 3) x AC 360 ... 575 V; DC 500 ... 650 V                                                                                 | Default setting                     | DC 24 V                                                                                                                          |
| Nominal mains frequency range      | 47 ... 63 Hz; 0 Hz                                                                                                           | Nominal output current $I_{o\ nom}$ | 6.25 A (24 VDC)                                                                                                                  |
| Input current $I_i$                | $\leq 3 \times 0.6\ A$ (400 VAC; 24 VDC / 6.25 A)                                                                            | Nominal output power                | 150 W                                                                                                                            |
| Discharge current                  | $\leq 3.5\ mA$                                                                                                               | Deviation                           | $\leq 1\ \%$                                                                                                                     |
| Inrush current                     | $\leq 25\ A$                                                                                                                 | Residual ripple                     | $\leq 100\ mV$ (peak-to-peak)                                                                                                    |
| Power factor                       | $\geq 0.5$                                                                                                                   | Overload behavior                   | Constant power (in overload range: 1.15 ... 1.4 x $I_{o\ nom}$ ); Shutdown and automatic restart in the event of a short circuit |
| Power factor correction (PFC)      | passive                                                                                                                      |                                     |                                                                                                                                  |
| Mains failure hold-up time         | $\geq 17\ ms$ (3 x 400 VAC)                                                                                                  |                                     |                                                                                                                                  |
| Signaling and communication        |                                                                                                                              | Efficiency/power losses             |                                                                                                                                  |
| Signaling                          | 1 x LED DC OK (green)<br>1 x Overload LED (red)<br>1 x DC OK signal output (optocoupler as make contact; max. 31.2 V; 20 mA) | Power loss $P_I$                    | $\leq 18.5\ W$                                                                                                                   |
| Operation status indicator         | Green LED ( $U_o$ )<br>Red LED (overload)                                                                                    | Power loss (max.) $P_{I(max)}$      | 20 W                                                                                                                             |
|                                    |                                                                                                                              | Efficiency (typ.)                   | 87 %                                                                                                                             |
| Circuit protection                 |                                                                                                                              |                                     |                                                                                                                                  |
| Internal fuse                      | 3 x T 2 A / 250 VAC                                                                                                          |                                     |                                                                                                                                  |
| Backup fusing (required)           | An external DC fuse is required for the DC input voltage.                                                                    |                                     |                                                                                                                                  |
| Backup fusing (recommended)        | 3 x Circuit breaker $\geq 6\ A$ ; Tripping characteristic: B or C<br>Alternative: motor circuit breaker                      |                                     |                                                                                                                                  |



| Safety and protection           |  |                             |
|---------------------------------|--|-----------------------------|
| Isolation voltage (pri.-sec.)   |  | DC 4.242 kV                 |
| Isolation voltage (pri.-PE)     |  | DC 2.2 kV                   |
| Isolation voltage (sec.-PE)     |  | DC 0.7 kV                   |
| Isolation voltage (sec.-signal) |  | DC 0.7 kV                   |
| Protection class                |  | I                           |
| Protection type                 |  | IP20; per EN 60529          |
| Resistance to reverse feed      |  | ≤ DC 30 V                   |
| Overvoltage category            |  | II                          |
| Pollution degree                |  | 2                           |
| Transient suppression (primary) |  | Varistor                    |
| Short-circuit-protected         |  | Yes                         |
| Open-circuit-proof              |  | Yes                         |
| Parallel operation              |  | Yes                         |
| Series operation                |  | Yes                         |
| MTBF                            |  | > 250,000 h (per IEC 61709) |

| Connection data           |  |                                     |
|---------------------------|--|-------------------------------------|
| Connection type 1         |  | Input/output                        |
| Connection technology     |  | CAGE CLAMP®                         |
| WAGO connector            |  | WAGO 2706 Series                    |
| Solid conductor           |  | 0.5 ... 6 mm² / 20 ... 10 AWG       |
| Fine-stranded conductor   |  | 0.5 ... 6 mm² / 20 ... 10 AWG       |
| Strip length              |  | 11 ... 12 mm / 0.43 ... 0.47 inches |
| Connection type 2         |  | Signaling                           |
| Connection technology     |  | Push-in CAGE CLAMP®                 |
| WAGO connector 2          |  | picoMAX® 3.5 (WAGO 2091 Series)     |
| Solid conductor 2         |  | 0.2 ... 1.5 mm² / 24 ... 14 AWG     |
| Fine-stranded conductor 2 |  | 0.2 ... 1.5 mm² / 24 ... 14 AWG     |
| Strip length 2            |  | 8 ... 9 mm / 0.31 ... 0.35 inches   |

| Physical data                     |  |                       |
|-----------------------------------|--|-----------------------|
| Width                             |  | 50 mm / 1.969 inches  |
| Height                            |  | 130 mm / 5.118 inches |
| Depth from upper-edge of DIN-rail |  | 92 mm / 3.622 inches  |

| Mechanical data |  |             |
|-----------------|--|-------------|
| Mounting type   |  | DIN-35 rail |

| Material data |  |       |
|---------------|--|-------|
| Fire load     |  | 0 MJ  |
| Weight        |  | 844 g |



| Environmental requirements      |                                           |
|---------------------------------|-------------------------------------------|
| Ambient temperature (operation) | -25 ... +70 °C                            |
| Ambient temperature (storage)   | -40 ... +85 °C                            |
| Relative humidity               | 10 ... 95 % (no condensation permissible) |
| Derating                        | -2.5 %/K (> 50 °C; 400 VAC)               |

| Standards and specifications |                                                            |
|------------------------------|------------------------------------------------------------|
| Conformity marking           | CE                                                         |
| Standards/specifications     | EN 62368-1<br>EN 61204-3 (Class A)<br>UL 60950-1<br>UL 508 |

| Commercial data       |               |
|-----------------------|---------------|
| eCl@ss 10.0           | 27-04-07-01   |
| eCl@ss 9.0            | 27-04-07-01   |
| ETIM 8.0              | EC002540      |
| ETIM 7.0              | EC002540      |
| PU (SPU)              | 1 pcs         |
| Packaging type        | Box           |
| Country of origin     | CN            |
| GTIN                  | 4050821847861 |
| Customs tariff number | 85044083900   |

Approvals / Certificates

General approvals



| Approval                                    | Standard                         | Certificate Name                |
|---------------------------------------------|----------------------------------|---------------------------------|
| EAC<br>Brjansker Zertifizierungs-<br>stelle | TP TC 004/2011,TP TC<br>020/2011 | EAC RU C-DE.AM02.<br>B.00089_19 |
| UL<br>Underwriters Laboratories<br>Inc.     | UL 508                           | E255817                         |
| UL<br>Underwriters Laboratories<br>Inc.     | UL 60950-1                       | E255815                         |

Downloads

Environmental Product Compliance

| Compliance Search                           |
|---------------------------------------------|
| Environmental Product<br>Compliance 787-738 |



Documentation



| Bid Text |            |                  |  |
|----------|------------|------------------|--|
| 787-738  | 12.07.2019 | xml<br>7.26 KB   |  |
| 787-738  | 12.07.2019 | docx<br>23.13 KB |  |

| Instruction Leaflet                               |                       |                  |  |
|---------------------------------------------------|-----------------------|------------------|--|
| Primary Switch Mode<br>Power Supply ECO-<br>Power | V 1.3.5<br>21.12.2020 | pdf<br>280.65 KB |  |

| CAD/CAE-Data         |                           |
|----------------------|---------------------------|
| <b>CAD data</b>      | <b>CAE data</b>           |
| 2D/3D Models 787-738 | EPLAN Data Portal 787-738 |
|                      | WSCAD Universe 787-738    |
|                      | ZUKEN Portal 787-738      |

| 1 Compatible Products    |
|--------------------------|
| 1.1 Optional Accessories |
| 1.1.1 Ferrule            |
| 1.1.1.1 Ferrule          |

|                                                                                                                                                                                    |                                                                                                                                                                                    |                                                                                                                                                                                    |                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow                                                                       | <br><b>Item No.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise                                                              | <br><b>Item No.: 216-241</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white | <br><b>Item No.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white                                                                         |
| <br><b>Item No.: 216-221</b><br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white                                                                         | <br><b>Item No.: 216-242</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | <br><b>Item No.: 216-262</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | <br><b>Item No.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray                                                                         |
| <br><b>Item No.: 216-222</b><br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray                                                                         | <br><b>Item No.: 216-243</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red     | <br><b>Item No.: 216-263</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red     | <br><b>Item No.: 216-203</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red                                                                             |
| <br><b>Item No.: 216-223</b><br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red                                                                             | <br><b>Item No.: 216-204</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black                                                                         | <br><b>Item No.: 216-224</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black                                                                         | <br><b>Item No.: 216-244</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black |
| <br><b>Item No.: 216-264</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | <br><b>Item No.: 216-284</b><br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | <br><b>Item No.: 216-205</b><br>Ferrule; Sleeve for 2.08 mm² / AWG 14; insulated; electro-tin plated; yellow                                                                       | <br><b>Item No.: 216-206</b><br>Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; blue                                                                          |



1.1.1.1 Ferrule



**Item No.: 216-246**  
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

**Item No.: 216-266**  
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

**Item No.: 216-286**  
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

**Item No.: 216-267**  
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



**Item No.: 216-287**  
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

**Item No.: 216-207**  
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; gray

**Item No.: 216-208**  
Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow

**Item No.: 216-288**  
Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow

1.1.2 Tool

1.1.2.1 Operating tool



**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

**Item No.: 210-769**  
SCREWDRIVER; green