

Datasheet
connectPower PROmax
 Single- and three-phase switched-mode power supply units

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 **BREWS**
 BREWSSUPPLY.COM

NEW



The new PROmax power supplies offer a wide range of robust solutions for demanding application requirements.

Designed for high performance and durability, PROmax switch-mode power supply units reliably provide continuous overload currents of up to 120%, or supply short-term peak loads up to 300% of nominal power.

Features include high output power boost capability and maximum power within a wide operating temperature range. PROmax switch-mode power supply units are suited for use in most global applications, and their compact size offers valuable space saving.

The PROmax power supplies, together with Weidmüller's uninterruptible DC UPSs, diode modules, and/or CAP modules, offer users the ability to tailor solutions for their unique and demanding power requirements.

Features:

- Small housing: 32 mm – 140 mm widths
- MTBF: >500,000 hours
- Wide temperature range: -25°C ...+70°C (Derating >60°C); startup at -40°C and above
- 16 variants offer application flexibility:
 - single-phase input: 24 V: 3...40 A, 5 V: 14 A, 12 V: 6...10 A, 48 V: 5...20 A
 - three-phase input: 24 V: 5...40 A
- Wide input ranges: 85...277 V AC/320 ...575 V AC, 80...370 V DC/450...800 V DC
- External monitoring with relay (Change over contact)
- Capable of parallel and series output connections
- Bi-color LED status indicator
- International approvals:
 - cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class 1 Div2, RCM, Gost
- Shock and vibration resistant
- Powerful output surge capability: 120% min.1 min (permanent < +45°C), 150% min 4s, 300% min 2ms
- Installation manual available via QR code



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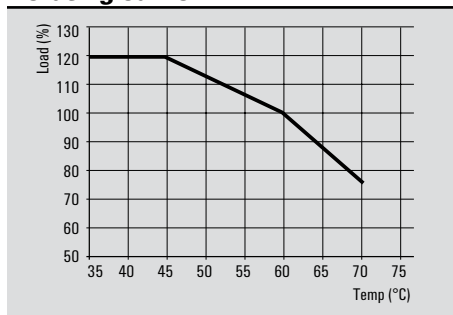
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Derating curve



Max. limiting average on state current [A]

| Typ\Temp. | 45°C | 50°C | 55°C | 60°C | 65°C | 70°C |
|------------------|------|------|------|------|------|------|
| 1ph 24 V / 3 A | 3.6 | 3.3 | 3.2 | 3 | 2.6 | 2.2 |
| 1ph 24 V / 5 A | 6 | 5.7 | 5.4 | 5 | 4.4 | 3.8 |
| 1ph 24 V / 7.5 A | 9 | 8.5 | 8 | 7.5 | 6.6 | 5.6 |
| 1ph 24 V / 10 A | 12 | 11.3 | 10.7 | 10 | 8.8 | 7.5 |
| 1ph 24 V / 20 A | 24 | 22.6 | 21.4 | 20 | 17.6 | 15 |
| 1ph 24 V / 40 A | 48 | 45.2 | 42.8 | 40 | 35.2 | 30 |
| 1ph 5 V / 14 A | 16.8 | 15.8 | 15 | 14 | 12.3 | 10.5 |
| 1ph 12 V / 6 A | 7.2 | 6.8 | 6.4 | 6 | 5.3 | 4.5 |
| 1ph 12 V / 10 A | 12 | 11.3 | 10.7 | 10 | 8.8 | 7.5 |
| 1ph 48 V / 5 A | 6 | 5.7 | 5.4 | 5 | 4.4 | 3.8 |
| 1ph 48 V / 10 A | 12 | 11.3 | 10.7 | 10 | 8.8 | 7.5 |
| 1ph 48 V / 20 A | 24 | 22.6 | 21.4 | 20 | 17.6 | 15 |
| 3ph 24 V / 5 A | 6 | 5.7 | 5.4 | 5 | 4.4 | 3.8 |
| 3ph 24 V / 10 A | 12 | 11.3 | 10.7 | 10 | 8.8 | 7.5 |
| 3ph 24 V / 20 A | 24 | 22.6 | 21.4 | 20 | 17.6 | 15 |
| 3ph 24 V / 40 A | 48 | 45.2 | 42.8 | 40 | 35.2 | 30 |

Technical data

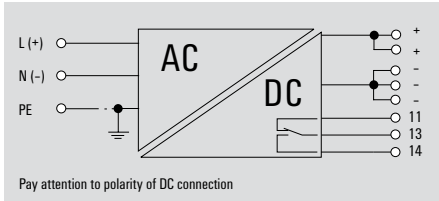
| General technical data | |
|---|--|
| Current limiting | > 120% I _N |
| Insulation voltage input ground | 3.5 kV |
| Insulation voltage output ground | 0.5 kV |
| Insulation voltage input/output | 4 kV |
| Earth leakage current | 3.5 mA |
| Series switching capability | Yes |
| Ambient temp. operating / storage temperature / Start up | -25°C...+70°C / -40°C...+85°C / ≥ -40°C |
| Humidity at operating temperature | 5...95%, no condensation |
| Class of protection / Pollution degree | I / 2 |
| MTBF | >500,000h (25°C, IEC 61709) |
| Housing version | Metal, corrosion resistant |
| Status indication | LED red/green and relay (≥21.6 V DC LED green, relay on/ ≤20.6 LED red, relay off) |
| Mounting position, installation notice | Horizontal on TS35 mounting rail, with 50 mm of clearance at top and bottom for air circulation. Can be mounted side by side with no space in between. |
| EMC / shock / vibration | |
| Noise immunity tests acc. to | EN55024; EN55022; IEC61000-3-2,-3; IEC61000-4-2,-3,-4,-5,-6,-8,-11 |
| Resistance against vibration and shock | 2.3 g / 30 g in all directions |
| Electrical safety (applied standards) | |
| Electrical equipment of machines | Acc. to EN60204 |
| Safety transformers for switched-mode power units | Acc. to EN61558-2-16 |
| Machinery with electronic equipment | Acc. to EN50178 / VDE0160 |
| Safety extra-low voltage | SELV acc. to EN60950, PELV acc. to EN60204, IEC61204 |
| Protective separation / protection against electrical shock | VDE0100-410 / acc. to DIN57100-410 |
| Protection against dangerous shock currents | Acc. to VDE0106-101 |
| Additional Information on Major North American Approvals | |
| cULus Listed file E258476 according to UL508 and CSA C22.2 No. 107.1; cURus file E255651 according to UL60950-1 and CSA C22.2 No. 60950-1; cULus C1D2 file E470829 according to ISA12.12.01 and CSA C22.2 No. 213 | |

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PRO MAX 72W 24V 3A



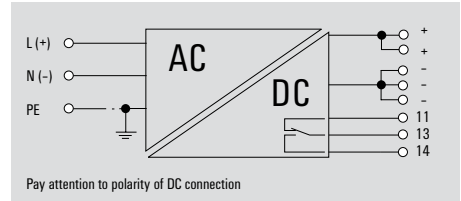
Similar
to illustration



PRO MAX 120W 24V 5A



Similar
to illustration



Technical data

| Input | |
|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) |
| Input voltage range AC | 85...277 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 80...370 V DC |
| AC current consumption | 1 A @ 230 V AC / 1.5 A @ 115 V AC |
| DC current consumption | 1 A @ 370 V DC / 1.5 A @ 120 V DC |
| Input fuse (internal) / Inrush current | T3.15 A/250 V AC / max. 15 A |
| Recommended back-up fuse | 6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker |
| Output | |
| Rated output voltage | 24 V DC \pm 1% |
| Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mV _{VSS} @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 3 A @ 60°C |
| Continuous output current @ U _{Rated} | 3.6 A @ 45°C, 2.25 A @ 70°C |
| Power boost @ U _{Rated} | 3.6 A (1 min), 4.5 A (4s) |
| Pulsed current capacity @ U _{Rated} | 9 A (2ms) |
| General data | |
| Degree of efficiency | 90% |
| Power factor (approx.) | > 0.90 @ 230 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 30...35 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 125 / 32 / 130 mm |
| Weight | 0.6 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 3 for L/N/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

Ordering data

| Type | Qty. | Part No. |
|--------------------|------|------------|
| PRO MAX 72W 24V 3A | 1 | 1478100000 |

Note: The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

| Input | |
|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) |
| Input voltage range AC | 85...277 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 80...370 V DC |
| AC current consumption | 1 A @ 230 V AC / 2.5 A @ 115 V AC |
| DC current consumption | 1.5 A @ 370 V DC / 2.5 A @ 120 V DC |
| Input fuse (internal) / Inrush current | T3.15 A/250 V AC / max. 15 A |
| Recommended back-up fuse | 6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker |
| Output | |
| Rated output voltage | 24 V DC \pm 1% |
| Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mV _{VSS} @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 5 A @ 60°C |
| Continuous output current @ U _{Rated} | 6.0 A @ 45°C, 3.75 A @ 70°C |
| Power boost @ U _{Rated} | 6 A (1 min), 7.5 A (4s) |
| Pulsed current capacity @ U _{Rated} | 15 A (2ms) |
| General data | |
| Degree of efficiency | 90% |
| Power factor (approx.) | > 0.90 @ 230 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 30...35 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 125 / 40 / 130 mm |
| Weight | 0.8 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 3 for L/N/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

| Type | Qty. | Part No. |
|---------------------|------|------------|
| PRO MAX 120W 24V 5A | 1 | 1478110000 |

Note: The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

| Input | |
|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) |
| Input voltage range AC | 85...277 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 80...370 V DC |
| AC current consumption | 1 A @ 230 V AC / 2.5 A @ 115 V AC |
| DC current consumption | 1.5 A @ 370 V DC / 2.5 A @ 120 V DC |
| Input fuse (internal) / Inrush current | T3.15 A/250 V AC / max. 15 A |
| Recommended back-up fuse | 6 A, Char. B, circuit breaker, 6 A, char. C circuit breaker |
| Output | |
| Rated output voltage | 24 V DC \pm 1% |
| Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mV _{VSS} @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 5 A @ 60°C |
| Continuous output current @ U _{Rated} | 6.0 A @ 45°C, 3.75 A @ 70°C |
| Power boost @ U _{Rated} | 6 A (1 min), 7.5 A (4s) |
| Pulsed current capacity @ U _{Rated} | 15 A (2ms) |
| General data | |
| Degree of efficiency | 90% |
| Power factor (approx.) | > 0.90 @ 230 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 30...35 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 125 / 40 / 130 mm |
| Weight | 0.8 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 3 for L/N/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

| Type | Qty. | Part No. |
|---------------------|------|------------|
| PRO MAX 120W 24V 5A | 1 | 1478110000 |

Note: The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

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PRO MAX 180W 24V 7.5A

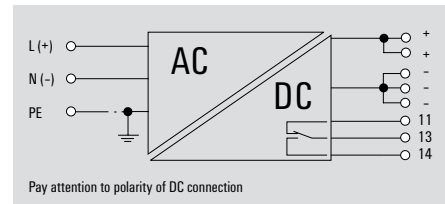
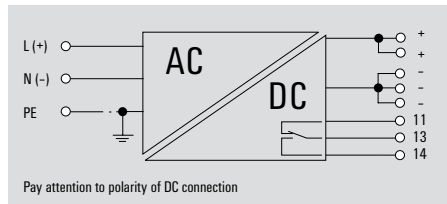
PRO MAX 240W 24V 10A



Similar to illustration



Similar to illustration



Technical data

| Input | |
|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) |
| Input voltage range AC | 85...277 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 80...370 V DC |
| AC current consumption | 1 A @ 230 V AC / 2 A @ 115 V AC |
| DC current consumption | 1 A @ 370 V DC / 2 A @ 120 V DC |
| Input fuse (internal) / Inrush current | T3.15 A/250 V AC / max. 15 A |
| Recommended back-up fuse | 10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker |
| Output | |
| Rated output voltage | 24 V DC ± 1% |
| Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 7.5 A @ 60°C |
| Continuous output current @ U _{Rated} | 9 A @ 45°C, 5.6 A @ 70°C |
| Power boost @ U _{Rated} | 9 A (1 min), 11.25 A (4s) |
| Pulsed current capacity @ U _{Rated} | 22.5 A (2ms) |
| General data | |
| Degree of efficiency | 91% |
| Power factor (approx.) | > 0.95 @ 230 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 30...35 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 125 / 50 / 130 mm |
| Weight | 0.9 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 3 for L/N/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

| Input | | Output | |
|---|---|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) | Rated output voltage | 24 V DC ± 1% |
| Input voltage range AC | 85...277 V AC | Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Frequency range AC | 45...65 Hz | Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load |
| DC input voltage range | 80...370 V DC | Rated (nominal) output current @ U _{Nom} | 7.5 A @ 60°C |
| AC current consumption | 1 A @ 230 V AC / 2 A @ 115 V AC | Continuous output current @ U _{Rated} | 9 A @ 45°C, 5.6 A @ 70°C |
| DC current consumption | 1 A @ 370 V DC / 2 A @ 120 V DC | Power boost @ U _{Rated} | 9 A (1 min), 11.25 A (4s) |
| Input fuse (internal) / Inrush current | T3.15 A/250 V AC / max. 15 A | Pulsed current capacity @ U _{Rated} | 22.5 A (2ms) |
| Recommended back-up fuse | 10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker | Degree of efficiency | 91% |
| Output voltage | 22.5...29.5 V (adjustable via potentiometer) | Power factor (approx.) | > 0.95 @ 230 V AC |
| Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load | AC failure bridging time @ I _{Nom} | min. 20 ms |
| Rated (nominal) output current @ U _{Nom} | 7.5 A @ 60°C | Protection against reverse voltages from the load | 30...35 V DC |
| Continuous output current @ U _{Rated} | 9 A @ 45°C, 5.6 A @ 70°C | Parallel connection option | yes, max. 5 |
| Power boost @ U _{Rated} | 9 A (1 min), 11.25 A (4s) | Depth x width x height | 125 / 50 / 130 mm |
| Pulsed current capacity @ U _{Rated} | 22.5 A (2ms) | Weight | 0.9 kg |
| Degree of efficiency | 91% | Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Power factor (approx.) | > 0.95 @ 230 V AC | Connection data | Screw connection |
| AC failure bridging time @ I _{Nom} | min. 20 ms | Number of terminals | 3 for L/N/PE |
| Protection against reverse voltages from the load | 30...35 V DC | Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Parallel connection option | yes, max. 5 | Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Depth x width x height | 125 / 50 / 130 mm | Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Weight | 0.9 kg | Screwdriver blade | 0.8 x 4.0, PZ 1 |

| Input | | Output | |
|---|---|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) | Rated output voltage | 24 V DC ± 1% |
| Input voltage range AC | 85...277 V AC | Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Frequency range AC | 45...65 Hz | Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load |
| DC input voltage range | 80...370 V DC | Rated (nominal) output current @ U _{Nom} | 10 A @ 60°C |
| AC current consumption | 1.5 A @ 230 V AC / 3 A @ 115 V AC | Continuous output current @ U _{Rated} | 12 A @ 45°C, 7.5 A @ 70°C |
| DC current consumption | 1.5 A @ 370 V DC / 3 A @ 120 V DC | Power boost @ U _{Rated} | 12 A (1 min), 15 A (4s) |
| Input fuse (internal) / Inrush current | T3.15 A/250 V AC / max. 15 A | Pulsed current capacity @ U _{Rated} | 30 A (2ms) |
| Recommended back-up fuse | 10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker | Degree of efficiency | 91% |
| Output voltage | 22.5...29.5 V (adjustable via potentiometer) | Power factor (approx.) | > 0.95 @ 230 V AC |
| Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load | AC failure bridging time @ I _{Nom} | min. 20 ms |
| Rated (nominal) output current @ U _{Nom} | 10 A @ 60°C | Protection against reverse voltages from the load | 30...35 V DC |
| Continuous output current @ U _{Rated} | 12 A @ 45°C, 7.5 A @ 70°C | Parallel connection option | yes, max. 5 |
| Power boost @ U _{Rated} | 12 A (1 min), 15 A (4s) | Depth x width x height | 125 / 60 / 130 mm |
| Pulsed current capacity @ U _{Rated} | 30 A (2ms) | Weight | 1 kg |
| Degree of efficiency | 91% | Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Power factor (approx.) | > 0.95 @ 230 V AC | Connection data | Screw connection |
| AC failure bridging time @ I _{Nom} | min. 20 ms | Number of terminals | 3 for L/N/PE |
| Protection against reverse voltages from the load | 30...35 V DC | Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Parallel connection option | yes, max. 5 | Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Depth x width x height | 125 / 60 / 130 mm | Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Weight | 1 kg | Screwdriver blade | 0.8 x 4.0, PZ 1 |

Ordering data

| Type | Qty. | Part No. |
|-----------------------|------|------------|
| PRO MAX 180W 24V 7.5A | 1 | 1478120000 |

| Type | Qty. | Part No. |
|-----------------------|------|------------|
| PRO MAX 180W 24V 7.5A | 1 | 1478120000 |

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

| Type | Qty. | Part No. |
|----------------------|------|------------|
| PRO MAX 240W 24V 10A | 1 | 1478130000 |

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

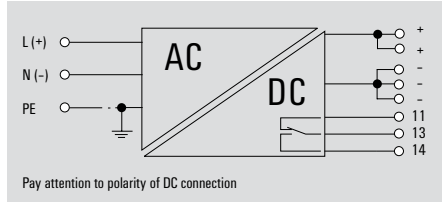
Accessories

connectPower PROmax

PRO MAX 480W 24V 20A



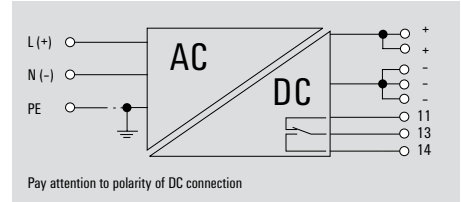
Similar
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PRO MAX 960W 24V 40A



Similar
to illustration



Technical data

| Input | |
|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) |
| Input voltage range AC | 85...277 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 80...370 V DC |
| AC current consumption | 2.3 A @ 230 V AC / 4.8 A @ 115 V AC |
| DC current consumption | 1.5 A @ 370 V DC / 4.8 A @ 120 V DC |
| Input fuse (internal) / Inrush current | T3.15 A/250 V AC / max. 15 A |
| Recommended back-up fuse | 16 A, Char. B circuit breaker, 10 A, char. C circuit breaker |
| Output | |
| Rated output voltage | 24 V DC \pm 1% |
| Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 20 A @ 60°C |
| Continuous output current @ U _{Rated} | 24 A @ 45°C, 15 A @ 70°C |
| Power boost @ U _{Rated} | 24 A (1 min), 30 A (4s) |
| Pulsed current capacity @ U _{Rated} | 60 A (2ms) |
| General data | |
| Degree of efficiency | 91.5% |
| Power factor (approx.) | > 0.95 @ 230 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 30...35 V DC |
| Parallel connection option | yes, max. 3 |
| Depth x width x height | 150 / 90 / 130 mm |
| Weight | 1.95 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 3 for L/N/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

Ordering data

| Type | Qty. | Part No. |
|----------------------|------|------------|
| PRO MAX 480W 24V 20A | 1 | 1478140000 |

Note: The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

| Input | |
|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) |
| Input voltage range AC | 85...277 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 80...370 V DC |
| AC current consumption | 4.52 A @ 230 V AC / 10 A @ 115 V AC |
| DC current consumption | 2.8 A @ 370 V DC / 10 A @ 120 V DC |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A |
| Recommended back-up fuse | 20 A, char. B circuit breaker, 16 A, Char. C circuit breaker |
| Output | |
| Rated output voltage | 24 V DC \pm 1% |
| Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 40 A @ 60°C |
| Continuous output current @ U _{Rated} | 48 A @ 45°C, 30 A @ 70°C |
| Power boost @ U _{Rated} | 48 A (1 min), 60 A (4s) |
| Pulsed current capacity @ U _{Rated} | 120 A (2ms) |
| General data | |
| Degree of efficiency | 92.5% |
| Power factor (approx.) | > 0.95 @ 230 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 30...35 V DC |
| Parallel connection option | yes, max. 3 |
| Depth x width x height | 150 / 140 / 130 mm |
| Weight | 3.4 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 3 for L/N/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

| Type | Qty. | Part No. |
|----------------------|------|------------|
| PRO MAX 960W 24V 40A | 1 | 1478150000 |

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

**connectPower
PROmax**

PRO MAX 70W 5V 14A

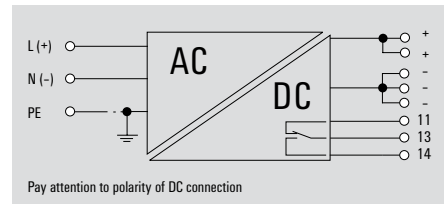
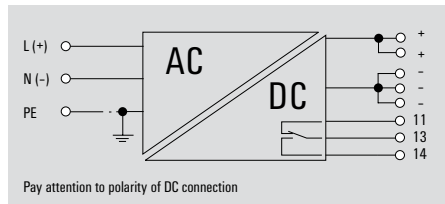
PRO MAX 72W 12V 6A



Similar to illustration



Similar to illustration



Technical data

| Input | |
|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) |
| Input voltage range AC | 85...277 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 80...370 V DC |
| AC current consumption | 1 A @ 230 V AC / 1.5 A @ 115 V AC |
| DC current consumption | 1 A @ 370 V DC / 1.5 A @ 120 V DC |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A |
| Recommended back-up fuse | 6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker |
| Output | |
| Rated output voltage | 5 V DC |
| Output voltage | 4.5...7 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 14 A @ 60°C |
| Continuous output current @ U _{Rated} | 16.8 A @ 45°C, 10.5 A @ 70°C |
| Power boost @ U _{Rated} | 16.8 A (1 min), 21 A (4s) |
| Pulsed current capacity @ U _{Rated} | 42 A (2ms) |
| General data | |
| Degree of efficiency | 86% |
| Power factor (approx.) | > 0.90 @ 230 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | > 7.5 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 125 / 32 / 130 mm |
| Weight | 0.6 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 3 for L/N/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

| Input | | Output | |
|---|---|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) | Rated output voltage | 12 V DC ± 1% |
| Input voltage range AC | 85...277 V AC | Output voltage | 10...15 V (adjustable via potentiometer) |
| Frequency range AC | 45...65 Hz | Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load |
| DC input voltage range | 80...370 V DC | Rated (nominal) output current @ U _{Nom} | 6 A @ 60°C |
| AC current consumption | 1 A @ 230 V AC / 1.5 A @ 115 V AC | Continuous output current @ U _{Rated} | 7.2 A @ 45°C, 4.5 A @ 70°C |
| DC current consumption | 1 A @ 370 V DC / 1.5 A @ 120 V DC | Power boost @ U _{Rated} | 7.2 A (1 min), 9 A (4s) |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A | Pulsed current capacity @ U _{Rated} | 18 A (2ms) |
| Recommended back-up fuse | 6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker | Degree of efficiency | 89% |
| Output voltage | 5 V DC | Power factor (approx.) | > 0.90 @ 230 V AC |
| Output voltage | 4.5...7 V (adjustable via potentiometer) | AC failure bridging time @ I _{Nom} | min. 20 ms |
| Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load | Protection against reverse voltages from the load | > 18 V DC |
| Rated (nominal) output current @ U _{Nom} | 14 A @ 60°C | Parallel connection option | yes, max. 5 |
| Continuous output current @ U _{Rated} | 16.8 A @ 45°C, 10.5 A @ 70°C | Depth x width x height | 125 / 32 / 130 mm |
| Power boost @ U _{Rated} | 16.8 A (1 min), 21 A (4s) | Weight | 0.6 kg |
| Pulsed current capacity @ U _{Rated} | 42 A (2ms) | Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Degree of efficiency | 86% | Connection system | Screw connection |
| Power factor (approx.) | > 0.90 @ 230 V AC | Number of terminals | 3 for L/N/PE |
| AC failure bridging time @ I _{Nom} | min. 20 ms | Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Protection against reverse voltages from the load | > 7.5 V DC | Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Parallel connection option | yes, max. 5 | Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Depth x width x height | 125 / 32 / 130 mm | Screwdriver blade | 0.8 x 4.0, PZ 1 |
| Weight | 0.6 kg | | |

| Input | | Output | |
|---|---|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) | Rated output voltage | 12 V DC ± 1% |
| Input voltage range AC | 85...277 V AC | Output voltage | 10...15 V (adjustable via potentiometer) |
| Frequency range AC | 45...65 Hz | Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load |
| DC input voltage range | 80...370 V DC | Rated (nominal) output current @ U _{Nom} | 6 A @ 60°C |
| AC current consumption | 1 A @ 230 V AC / 1.5 A @ 115 V AC | Continuous output current @ U _{Rated} | 7.2 A @ 45°C, 4.5 A @ 70°C |
| DC current consumption | 1 A @ 370 V DC / 1.5 A @ 120 V DC | Power boost @ U _{Rated} | 7.2 A (1 min), 9 A (4s) |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A | Pulsed current capacity @ U _{Rated} | 18 A (2ms) |
| Recommended back-up fuse | 6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker | Degree of efficiency | 89% |
| Output voltage | 5 V DC | Power factor (approx.) | > 0.90 @ 230 V AC |
| Output voltage | 4.5...7 V (adjustable via potentiometer) | AC failure bridging time @ I _{Nom} | min. 20 ms |
| Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load | Protection against reverse voltages from the load | > 18 V DC |
| Rated (nominal) output current @ U _{Nom} | 14 A @ 60°C | Parallel connection option | yes, max. 5 |
| Continuous output current @ U _{Rated} | 16.8 A @ 45°C, 10.5 A @ 70°C | Depth x width x height | 125 / 32 / 130 mm |
| Power boost @ U _{Rated} | 16.8 A (1 min), 21 A (4s) | Weight | 0.6 kg |
| Pulsed current capacity @ U _{Rated} | 42 A (2ms) | Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Degree of efficiency | 86% | Connection system | Screw connection |
| Power factor (approx.) | > 0.90 @ 230 V AC | Number of terminals | 3 for L/N/PE |
| AC failure bridging time @ I _{Nom} | min. 20 ms | Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Protection against reverse voltages from the load | > 7.5 V DC | Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Parallel connection option | yes, max. 5 | Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Depth x width x height | 125 / 32 / 130 mm | Screwdriver blade | 0.8 x 4.0, PZ 1 |
| Weight | 0.6 kg | | |

Ordering data

| Type | Qty. | Part No. |
|--------------------|------|------------|
| PRO MAX 70W 5V 14A | 1 | 1478210000 |

Note:

| Type | Qty. | Part No. |
|--------------------|------|------------|
| PRO MAX 70W 5V 14A | 1 | 1478210000 |

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

| Type | Qty. | Part No. |
|--------------------|------|------------|
| PRO MAX 72W 12V 6A | 1 | 1478220000 |

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

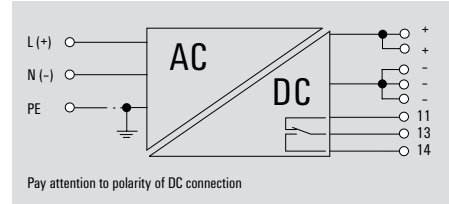
| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

**connectPower
PROmax**

PRO MAX 120W 12V 10A



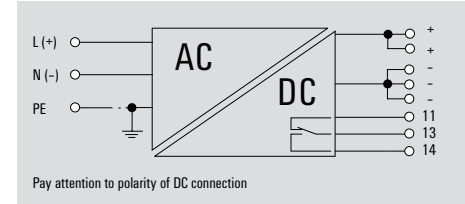
Similar to illustration



PRO MAX 240W 48V 5A



Similar to illustration



Technical data

| Input | |
|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) |
| Input voltage range AC | 85...277 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 80...370 V DC |
| AC current consumption | 1 A @ 230 V AC / 2.5 A @ 115 V AC |
| DC current consumption | 1.5 A @ 370 V DC / 2.5 A @ 120 V DC |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A |
| Recommended back-up fuse | 6 A, Char. B, circuit breaker, 6 A, char. C circuit breaker |
| Output | |
| Rated output voltage | 12 V DC ± 1% |
| Output voltage | 10...15 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mVss @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 10 A @ 60°C |
| Continuous output current @ U _{Rated} | 12 A @ 45°C, 7.5 A @ 70°C |
| Power boost @ U _{Rated} | 12 A (1 min), 15 A (4s) |
| Pulsed current capacity @ U _{Rated} | 30 A (2ms) |
| General data | |
| Degree of efficiency | 89% |
| Power factor (approx.) | > 0.90 @ 230 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | > 18 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 125 / 40 / 130 mm |
| Weight | 0.8 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 3 for L/N/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

Ordering data

| Type | Qty. | Part No. |
|----------------------|------|-------------------|
| PRO MAX 120W 12V 10A | 1 | 1478230000 |

Note: The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

| Input | |
|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) |
| Input voltage range AC | 85...277 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 80...370 V DC |
| AC current consumption | 1.5 A @ 230 V AC / 3 A @ 115 V AC |
| DC current consumption | 1.5 A @ 370 V DC / 3 A @ 120 V DC |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A |
| Recommended back-up fuse | 10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker |
| Output | |
| Rated output voltage | 48 V DC ± 1% |
| Output voltage | 30...56 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mVss @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 5 A @ 60°C |
| Continuous output current @ U _{Rated} | 6.0 A @ 45°C, 3.75 A @ 70°C |
| Power boost @ U _{Rated} | 5 A (1 min), 7.5 A (4s) |
| Pulsed current capacity @ U _{Rated} | 15 A (2ms) |
| General data | |
| Degree of efficiency | 91% |
| Power factor (approx.) | > 0.95 @ 230 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 58 ... 65 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 125 / 60 / 130 mm |
| Weight | 1 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 3 for L/N/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

| Type | Qty. | Part No. |
|---------------------|------|-------------------|
| PRO MAX 240W 48V 5A | 1 | 1478240000 |

Note: The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

| Input | |
|---|---|
| Rated input voltage | 100...240 V AC (wide-range input) |
| Input voltage range AC | 85...277 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 80...370 V DC |
| AC current consumption | 1.5 A @ 230 V AC / 3 A @ 115 V AC |
| DC current consumption | 1.5 A @ 370 V DC / 3 A @ 120 V DC |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A |
| Recommended back-up fuse | 10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker |
| Output | |
| Rated output voltage | 48 V DC ± 1% |
| Output voltage | 30...56 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mVss @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 5 A @ 60°C |
| Continuous output current @ U _{Rated} | 6.0 A @ 45°C, 3.75 A @ 70°C |
| Power boost @ U _{Rated} | 5 A (1 min), 7.5 A (4s) |
| Pulsed current capacity @ U _{Rated} | 15 A (2ms) |
| General data | |
| Degree of efficiency | 91% |
| Power factor (approx.) | > 0.95 @ 230 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 58 ... 65 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 125 / 60 / 130 mm |
| Weight | 1 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 3 for L/N/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

| Type | Qty. | Part No. |
|---------------------|------|-------------------|
| PRO MAX 240W 48V 5A | 1 | 1478240000 |

Note: The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

**connectPower
PROmax**

PRO MAX 480W 48V 10A

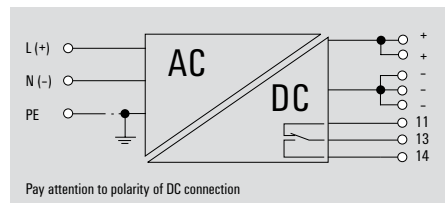
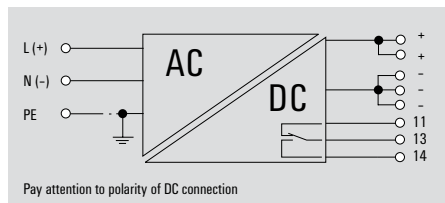
PRO MAX 960W 48V 20A



Similar to illustration



Similar to illustration



Technical data

| Input | |
|--|--|
| Rated input voltage | 100...240 V AC (wide-range input) |
| Input voltage range AC | 85...277 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 80...370 V DC |
| AC current consumption | 2.3 A @ 230 V AC / 4.8 A @ 115 V AC |
| DC current consumption | 1.5 A @ 370 V DC / 4.8 A @ 120 V DC |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A |
| Recommended back-up fuse | 16 A, Char. B circuit breaker, 10 A, char. C circuit breaker |

| | |
|---|--|
| Rated output voltage | 48 V DC ± 1% |
| Output voltage | 30...56 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 10 A @ 60°C |
| Continuous output current @ U _{Rated} | 12 A @ 45°C, 7.5 A @ 70°C |
| Power boost @ U _{Rated} | 12 A (1 min), 15 A (4s) |
| Pulsed current capacity @ U _{Rated} | 60 A (2ms) |

| | |
|---|--|
| Rated output voltage | 48 V DC ± 1% |
| Output voltage | 30...56 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 20 A @ 60°C |
| Continuous output current @ U _{Rated} | 24 A @ 45°C, 15 A @ 70°C |
| Power boost @ U _{Rated} | 24 A (1 min), 30 A (4s) |
| Pulsed current capacity @ U _{Rated} | 60 A (2ms) |

| Output | |
|---|--|
| Rated output voltage | 48 V DC ± 1% |
| Output voltage | 30...56 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mV _{SS} @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 10 A @ 60°C |
| Continuous output current @ U _{Rated} | 12 A @ 45°C, 7.5 A @ 70°C |
| Power boost @ U _{Rated} | 12 A (1 min), 15 A (4s) |
| Pulsed current capacity @ U _{Rated} | 60 A (2ms) |

| General data | |
|---|-------------------|
| Degree of efficiency | 91.5% |
| Power factor (approx.) | > 0.95 @ 230 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 58 ... 65 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 150 / 90 / 130 mm |
| Weight | 1.95 kg |

| General data | |
|---|--------------------|
| Degree of efficiency | 92.5% |
| Power factor (approx.) | > 0.95 @ 230 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 58 ... 65 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 150 / 140 / 130 mm |
| Weight | 3.4 kg |

| Approvals | |
|-----------|---|
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |

| Approvals | |
|-----------|---|
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |

| Approvals | |
|-----------|---|
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |

| Connection data | |
|---------------------------------------|--------------------------|
| Connection system | Screw connection |
| Number of terminals | 3 for L/N/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

| Input | Output |
|------------------|--------------------|
| Screw connection | Screw connection |
| 3 for L/N/PE | 8 (++,--,11,13,14) |
| 0.18 / 6 | 0.18 / 6 |
| 0.22 / 4 | 0.22 / 4 |
| 26 / 10 | 26 / 10 |
| 0.8 x 4.0, PZ 1 | 0.8 x 4.0, PZ 1 |

| Input | Output |
|------------------|--------------------|
| Screw connection | Screw connection |
| 3 for L/N/PE | 8 (++,--,11,13,14) |
| 0.18 / 6 | 0.5 / 16 |
| 0.22 / 4 | 0.5 / 16 |
| 26 / 10 | 22 / 8 |
| 0.8 x 4.0, PZ 1 | 1.0 x 5.5 |

Ordering data

| Type | Qty. | Part No. |
|----------------------|------|------------|
| PRO MAX 480W 48V 10A | 1 | 1478250000 |

| Type | Qty. | Part No. |
|----------------------|------|------------|
| PRO MAX 480W 48V 10A | 1 | 1478250000 |

| Type | Qty. | Part No. |
|----------------------|------|------------|
| PRO MAX 960W 48V 20A | 1 | 1478270000 |

Note:

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

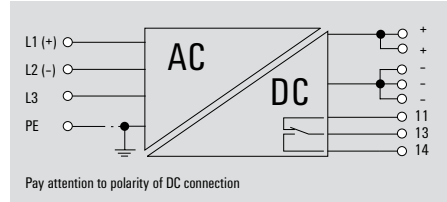
| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

**connectPower
PROmax**

PRO MAX3 120W 24V 5A



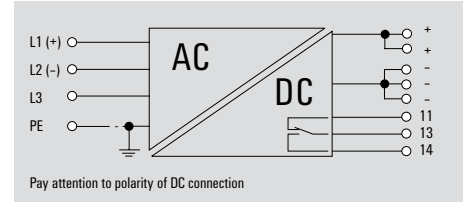
Similar to illustration



PRO MAX3 240W 24V 10A



Similar to illustration



Technical data

| Input | |
|---|---|
| Rated input voltage | 3 x 400...3 x 500 V AC (wide-range input) |
| Input voltage range AC | 3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 450...800 V DC (max. 500 V DC acc. to UL508) |
| AC current consumption | 0.28 A @ 3*500 V AC / 0.3 A @ 3*400 V AC |
| DC current consumption | 0.18 A @ 800 V DC / 0.3 A @ 450 V DC |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A |
| Recommended back-up fuse | 2...3 A, char. C circuit breaker |
| Output | |
| Rated output voltage | 24 V DC ± 1% |
| Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mVss @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 5 A @ 60°C |
| Continuous output current @ U _{Rated} | 6.0 A @ 45°C, 3.75 A @ 70°C |
| Power boost @ U _{Rated} | 6 A (1 min), 7.5 A (4s) |
| Pulsed current capacity @ U _{Rated} | 15 A (2ms) |
| General data | |
| Degree of efficiency | 90% |
| Power factor (approx.) | > 0.50 @ 3*400 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 30...35 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 125 / 40 / 130 mm |
| Weight | 0.65 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 4 for L1/L2/L3/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

Ordering data

| Type | Qty. | Part No. |
|----------------------|------|-------------------|
| PRO MAX3 120W 24V 5A | 1 | 1478170000 |

Note:
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

| Rated input voltage | 3 x 400...3 x 500 V AC (wide-range input) |
|---|---|
| Input voltage range AC | 3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 450...800 V DC (max. 500 V DC acc. to UL508) |
| AC current consumption | 0.28 A @ 3*500 V AC / 0.3 A @ 3*400 V AC |
| DC current consumption | 0.18 A @ 800 V DC / 0.3 A @ 450 V DC |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A |
| Recommended back-up fuse | 2...3 A, char. C circuit breaker |
| Output | |
| Rated output voltage | 24 V DC ± 1% |
| Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mVss @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 5 A @ 60°C |
| Continuous output current @ U _{Rated} | 6.0 A @ 45°C, 3.75 A @ 70°C |
| Power boost @ U _{Rated} | 6 A (1 min), 7.5 A (4s) |
| Pulsed current capacity @ U _{Rated} | 15 A (2ms) |
| General data | |
| Degree of efficiency | 90% |
| Power factor (approx.) | > 0.50 @ 3*400 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 30...35 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 125 / 40 / 130 mm |
| Weight | 0.65 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 4 for L1/L2/L3/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

| Type | Qty. | Part No. |
|----------------------|------|-------------------|
| PRO MAX3 120W 24V 5A | 1 | 1478170000 |

Note:
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

| Rated input voltage | 3 x 400...3 x 500 V AC (wide-range input) |
|---|---|
| Input voltage range AC | 3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 450...800 V DC (max. 500 V DC acc. to UL508) |
| AC current consumption | 0.35 A @ 3*500 V AC / 0.4 A @ 3*400 V AC |
| DC current consumption | 0.35 A @ 800 V DC / 0.6 A @ 450 V DC |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A |
| Recommended back-up fuse | 3 - 5 A Char. C, circuit breaker |
| Output | |
| Rated output voltage | 24 V DC ± 1% |
| Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mVss @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 10 A @ 60°C |
| Continuous output current @ U _{Rated} | 12 A @ 45°C, 7.5 A @ 70°C |
| Power boost @ U _{Rated} | 12 A (1 min), 15 A (4s) |
| Pulsed current capacity @ U _{Rated} | 30 A (2ms) |
| General data | |
| Degree of efficiency | 91% |
| Power factor (approx.) | > 0.75 @ 3*400 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 30...35 V DC |
| Parallel connection option | yes, max. 5 |
| Depth x width x height | 125 / 60 / 130 mm |
| Weight | 1.3 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 4 for L1/L2/L3/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

| Type | Qty. | Part No. |
|-----------------------|------|-------------------|
| PRO MAX3 240W 24V 10A | 1 | 1478180000 |

Note:
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

**connectPower
PROmax**

PRO MAX3 480W 24V 20A

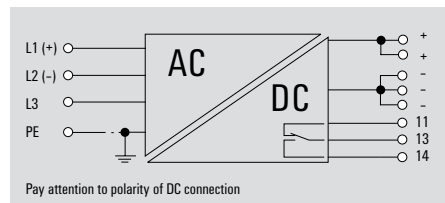
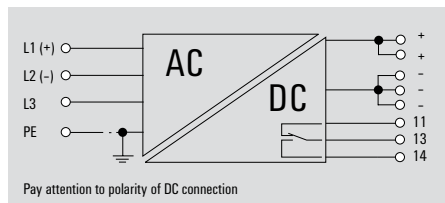
PRO MAX3 960W 24V 40A



Similar to illustration



Similar to illustration



Technical data

| Input | |
|---|---|
| Rated input voltage | 3 x 400...3 x 500 V AC (wide-range input) |
| Input voltage range AC | 3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC |
| Frequency range AC | 45...65 Hz |
| DC input voltage range | 450...800 V DC (max. 500 V DC acc. to UL508) |
| AC current consumption | 0.7 A @ 3*500 V AC / 0.85 A @ 3*400 V AC |
| DC current consumption | 0.7 A @ 800 V DC / 1.2 A @ 450 V DC |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A |
| Recommended back-up fuse | 3 - 5 A Char. C, circuit breaker |
| Output | |
| Rated output voltage | 24 V DC ± 1% |
| Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Residual ripple, breaking spikes | < 50 mVss @ U _{Nennr} , Full Load |
| Rated (nominal) output current @ U _{Nom} | 20 A @ 60°C |
| Continuous output current @ U _{Rated} | 24 A @ 45°C, 15 A @ 70°C |
| Power boost @ U _{Rated} | 24 A (1 min), 30 A (4s) |
| Pulsed current capacity @ U _{Rated} | 60 A (2ms) |
| General data | |
| Degree of efficiency | 91.5% |
| Power factor (approx.) | > 0.75 @ 3*400 V AC |
| AC failure bridging time @ I _{Nom} | min. 20 ms |
| Protection against reverse voltages from the load | 30...35 V DC |
| Parallel connection option | yes, max. 3 |
| Depth x width x height | 150 / 70 / 130 mm |
| Weight | 1.3 kg |
| Approvals | |
| Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Connection data | |
| Connection system | Screw connection |
| Number of terminals | 4 for L1/L2/L3/PE |
| Wire cross-section, rigid min/max | 0.18 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.22 / 4 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 10 |
| Screwdriver blade | 0.8 x 4.0, PZ 1 |

| Input | | Output | |
|---|---|---|---|
| Rated input voltage | 3 x 400...3 x 500 V AC (wide-range input) | Rated output voltage | 24 V DC ± 1% |
| Input voltage range AC | 3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC | Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Frequency range AC | 45...65 Hz | Residual ripple, breaking spikes | < 50 mVss @ U _{Nennr} , Full Load |
| DC input voltage range | 450...800 V DC (max. 500 V DC acc. to UL508) | Rated (nominal) output current @ U _{Nom} | 20 A @ 60°C |
| AC current consumption | 0.7 A @ 3*500 V AC / 0.85 A @ 3*400 V AC | Continuous output current @ U _{Rated} | 24 A @ 45°C, 15 A @ 70°C |
| DC current consumption | 0.7 A @ 800 V DC / 1.2 A @ 450 V DC | Power boost @ U _{Rated} | 24 A (1 min), 30 A (4s) |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A | Pulsed current capacity @ U _{Rated} | 60 A (2ms) |
| Recommended back-up fuse | 3 - 5 A Char. C, circuit breaker | | |
| General data | | Approvals | |
| Degree of efficiency | 91.5% | Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Power factor (approx.) | > 0.75 @ 3*400 V AC | | |
| AC failure bridging time @ I _{Nom} | min. 20 ms | | |
| Protection against reverse voltages from the load | 30...35 V DC | | |
| Parallel connection option | yes, max. 3 | | |
| Depth x width x height | 150 / 70 / 130 mm | | |
| Weight | 1.3 kg | | |

| Input | | Output | |
|---|---|---|---|
| Rated input voltage | 3 x 400...3 x 500 V AC (wide-range input) | Rated output voltage | 24 V DC ± 1% |
| Input voltage range AC | 3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC | Output voltage | 22.5...29.5 V (adjustable via potentiometer) |
| Frequency range AC | 45...65 Hz | Residual ripple, breaking spikes | < 50 mVss @ U _{Nennr} , Full Load |
| DC input voltage range | 450...800 V DC (max. 500 V DC acc. to UL508) | Rated (nominal) output current @ U _{Nom} | 40 A @ 60°C |
| AC current consumption | 1.3 A @ 3*500 V AC / 1.6 A @ 3*400 V AC | Continuous output current @ U _{Rated} | 48 A @ 45°C, 30 A @ 70°C |
| DC current consumption | 1.4 A @ 800 V DC / 2.4 A @ 450 V DC | Power boost @ U _{Rated} | 48 A (1 min), 60 A (4s) |
| Input fuse (internal) / Inrush current | T3.15 A / 250 V AC / max. 15 A | Pulsed current capacity @ U _{Rated} | 120 A (2ms) |
| Recommended back-up fuse | 6...8 A, char. C circuit breaker | | |
| General data | | Approvals | |
| Degree of efficiency | 92.5% | Approvals | cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost |
| Power factor (approx.) | > 0.75 @ 3*400 V AC | | |
| AC failure bridging time @ I _{Nom} | min. 20 ms | | |
| Protection against reverse voltages from the load | 30...35 V DC | | |
| Parallel connection option | yes, max. 3 | | |
| Depth x width x height | 150 / 140 / 130 mm | | |
| Weight | 3.1 kg | | |

Ordering data

| Type | Qty. | Part No. |
|-----------------------|------|-------------------|
| PRO MAX3 480W 24V 20A | 1 | 1478190000 |

Note: The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

| Type | Qty. | Part No. |
|-----------------------|------|-------------------|
| PRO MAX3 480W 24V 20A | 1 | 1478190000 |

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

| Type | Qty. | Part No. |
|-----------------------|------|-------------------|
| PRO MAX3 960W 24V 40A | 1 | 1478200000 |

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

| |
|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

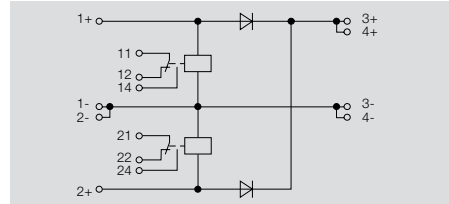
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|------------------------------|
| Metal Din-Rail Mounting Foot |
|------------------------------|

PRO-M: diode, capacity and relay modules

CP M DM20



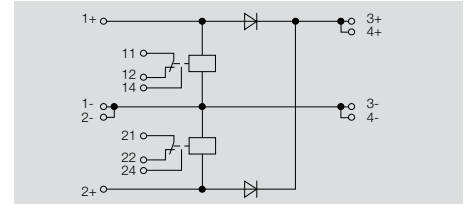
Similar to illustration



CP M DM40



Similar to illustration



Technical data

| Input | |
|--|--|
| Rated input voltage / DC input voltage range | 24 V DC / 18...30 V DC |
| Input current | 2 x 10 A or 1 x 20 A |
| Output | |
| Rated output voltage / Output voltage | 24 V DC \pm 1% / Input voltage - 0.7 V |
| Rated (nominal) output current @ U _{Nom} | 20 A @ 60°C |
| Continuous output current @ 24 V DC | 24 A @ 45°C, 22.5 A @ 55°C, 15 A @ 70°C |
| Voltage monitoring / Floating contact | Yes, In both inputs / Yes |
| Switching thresholds | 21.6 V DC, relay is on for Power Good, 20.4 V DC, relay is off for Power Fail |
| General data | |
| Degree of efficiency | > 97% @ 24 V input voltage |
| Depth x width x height / Weight | 150 / 34 / 130 mm / 0.3 kg |
| Ambient temperature (operational) / Storage temperature | -25°C...+70°C / -40°C...+85°C |
| Humidity | 5...95%, no condensation |
| Protection degree / Class of protection / Pollution severity | IP 20 / III, with no ground connection, for SELV / 2 |
| Insulation voltage | 0.5 kV <small>Input/output housing</small> |
| MTBF | > 500,000 h acc. to IEC 1709 (SN29500) |
| Mounting position, installation notice | Horizontal on TS35 DIN-rail. 50 mm clearance top & bottom for air circ. Can mount side by side with no space in between. |
| EMC / shock / vibration | |
| Noise emission acc. to EN55022 | Class B |
| Interference immunity test acc. to | EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) |
| Resistance to vibration / Shock | 1 g according to EN50178 / 15 g In all directions |
| Electrical safety (applied standards) | |
| Electrical machine equipment | Acc. to EN60204 |
| For use with electronic equipment | Acc. to EN50178 / VDE0160 |
| Safety extra-low voltage | SELV acc. to EN60950, PELV acc. to EN60204 |
| Approvals | |
| Approvals | cCSAus; CE; cULus; GL; GOSTME25 |
| Connection data | |
| Wire connection method | Screw connection |
| Number of terminals | 4 (1+, 2+, 1-, 2-) |
| Wire cross-section, rigid min/max | 0.5 / 6 mm ² |
| Wire cross-section, flexible min/max | 0.5 / 2.5 mm ² |
| Wire cross-section, AWG/kcmil min/max | 26 / 12 |
| Note: | |
| Ordering data | |
| | Plastic clip-on foot |

| | | |
|--|--|-----------------|
| Rated input voltage / DC input voltage range | 24 V DC / 18...30 V DC | |
| Input current | 2 x 10 A or 1 x 20 A | |
| Rated output voltage / Output voltage | 24 V DC \pm 1% / Input voltage - 0.7 V | |
| Rated (nominal) output current @ U _{Nom} | 20 A @ 60°C | |
| Continuous output current @ 24 V DC | 24 A @ 45°C, 22.5 A @ 55°C, 15 A @ 70°C | |
| Voltage monitoring / Floating contact | Yes, In both inputs / Yes | |
| Switching thresholds | 21.6 V DC, relay is on for Power Good, 20.4 V DC, relay is off for Power Fail | |
| Degree of efficiency | > 97% @ 24 V input voltage | |
| Depth x width x height / Weight | 150 / 34 / 130 mm / 0.3 kg | |
| Ambient temperature (operational) / Storage temperature | -25°C...+70°C / -40°C...+85°C | |
| Humidity | 5...95%, no condensation | |
| Protection degree / Class of protection / Pollution severity | IP 20 / III, with no ground connection, for SELV / 2 | |
| Insulation voltage | 0.5 kV <small>Input/output housing</small> | |
| MTBF | > 500,000 h acc. to IEC 1709 (SN29500) | |
| Mounting position, installation notice | Horizontal on TS35 DIN-rail. 50 mm clearance top & bottom for air circ. Can mount side by side with no space in between. | |
| Noise emission acc. to EN55022 | Class B | |
| Interference immunity test acc. to | EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) | |
| Resistance to vibration / Shock | 1 g according to EN50178 / 15 g In all directions | |
| Electrical machine equipment | Acc. to EN60204 | |
| For use with electronic equipment | Acc. to EN50178 / VDE0160 | |
| Safety extra-low voltage | SELV acc. to EN60950, PELV acc. to EN60204 | |
| Approvals | cCSAus; CE; cULus; GL; GOSTME25 | |
| Input | Output | |
| Screw connection | Screw connection | |
| 4 (1+, 2+, 1-, 2-) | 4 (3+, 4+, 3-, 4-) | |
| 0.5 / 6 | 0.5 / 6 | |
| 0.5 / 2.5 | 0.5 / 2.5 | |
| 26 / 12 | 26 / 12 | |
| Type | Qty. | Part No. |
| CP M DM20 | 1 | 1222210000 |

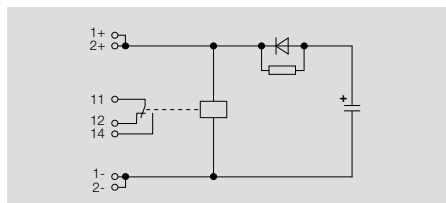
| | | |
|--|--|-----------------|
| Rated input voltage / DC input voltage range | 24 V DC / 18...30 V DC | |
| Input current | 2 x 20 A or 1 x 40 A | |
| Rated output voltage / Output voltage | 24 V DC \pm 1% / Input voltage - 0.7 V | |
| Rated (nominal) output current @ U _{Nom} | 40 A @ 60°C | |
| Continuous output current @ 24 V DC | 48 A @ 45°C, 45 A @ 55°C, 30 A @ 70°C | |
| Voltage monitoring / Floating contact | Yes, In both inputs / Yes | |
| Switching thresholds | 21.6 V DC, relay is on for Power Good, 20.4 V DC, relay is off for Power Fail | |
| Degree of efficiency | > 97% @ 24 V input voltage | |
| Depth x width x height / Weight | 150 / 60 / 130 mm / 0.6 kg | |
| Ambient temperature (operational) / Storage temperature | -25°C...+70°C / -40°C...+85°C | |
| Humidity | 5...95%, no condensation | |
| Protection degree / Class of protection / Pollution severity | IP 20 / III, with no ground connection, for SELV / 2 | |
| Insulation voltage | 0.5 kV <small>Input/output housing</small> | |
| MTBF | > 500,000 h acc. to IEC 1709 (SN29500) | |
| Mounting position, installation notice | Horizontal on TS35 DIN-rail. 50 mm clearance top & bottom for air circ. Can mount side by side with no space in between. | |
| Noise emission acc. to EN55022 | Class B | |
| Interference immunity test acc. to | EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) | |
| Resistance to vibration / Shock | 1 g according to EN50178 / 15 g In all directions | |
| Electrical machine equipment | Acc. to EN60204 | |
| For use with electronic equipment | Acc. to EN50178 / VDE0160 | |
| Safety extra-low voltage | SELV acc. to EN60950, PELV acc. to EN60204 | |
| Approvals | cCSAus; CE; cULus; GL; GOSTME25 | |
| Input | Output | |
| Screw connection | Screw connection | |
| 4 (1+, 2+, 1-, 2-) | 4 (3+, 4+, 3-, 4-) | |
| 0.5 / 16 | 0.5 / 16 | |
| 2.5 / 10 | 2.5 / 10 | |
| 22 / 6 | 22 / 6 | |
| Type | Qty. | Part No. |
| CP M DM40 | 1 | 1222220000 |

PRO-M: diode, capacity and relay modules

CP M CAP

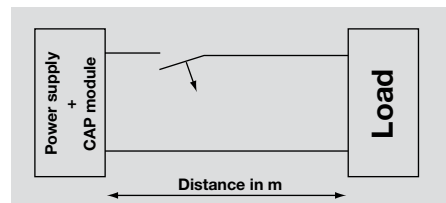


Similar to illustration



Pulse triggering for circuit breakers: with the Weidmüller capacitance module. The following conditions apply to the table entries:

- Ambient temperature of 20°C
- Inner resistance of the circuit breakers is taken into account
- Half of the rated current flows to a neighbouring circuit before the short circuit is formed
- DC-compatible circuit breakers: Siemens 5SY series



Technical data

| | |
|---|---|
| Input | Rated input voltage / DC input voltage range |
| Output | Peak current output / Recovery time for the capacitor |
| Switching thresholds | |
| Floating contact | |
| General data | |
| Depth x width x height / Weight | |
| Ambient temperature (operational) / Storage temperature | |
| Humidity | |
| Protection degree | |
| Class of protection | |
| Pollution severity | |
| Insulation voltage | |
| MTBF | |
| Mounting position, installation notice | |

| | |
|---|--|
| Rated input voltage / DC input voltage range | 24 V DC / 18...30 V DC |
| Peak current output / Recovery time for the capacitor | Depending on the load (typically 40 A for 1 ms) / Approx. 1 sec. |
| Switching thresholds | 21.6 V DC, relay is on for Power Good, 20.4 V DC, relay is off for Power Fail |
| Floating contact | Yes |
| Depth x width x height / Weight | 150 / 34 / 130 mm / 0.4 kg |
| Ambient temperature (operational) / Storage temperature | -25°C...+70°C / -40°C...+85°C |
| Humidity | 5...95%, no condensation |
| Protection degree | IP 20 |
| Class of protection | III, with no ground connection, for SELV |
| Pollution severity | 2 |
| Insulation voltage | 0.5 kV Input/output housing |
| MTBF | > 500,000 h acc. to IEC 1709 (SN29500) |
| Mounting position, installation notice | Horizontal on TS35 DIN-rail. 50 mm clearance top & bottom for air circ. Can mount side by side with no space in between. |

EMC / shock / vibration

| | |
|------------------------------------|--|
| Noise emission acc. to EN55022 | |
| Interference immunity test acc. to | |
| Resistance to vibration / Shock | |

| | |
|---|---|
| Class B | EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) EN 61000-4-11 (dips) |
| 1 g according to EN50178 / 15 g In all directions | |

Electrical safety (applied standards)

| | |
|-----------------------------------|--|
| Electrical machine equipment | Acc. to EN60204 |
| For use with electronic equipment | Acc. to EN50178 / VDE0160 |
| Safety extra-low voltage | SELV acc. to EN60950, PELV acc. to EN60204 |

| | |
|---------------|--|
| CE; cULus; GL | |
|---------------|--|

Approvals

| | |
|-----------|--|
| Approvals | |
|-----------|--|

Connection data

| | |
|---------------------------------------|-----------------|
| Wire connection method | |
| Number of terminals | |
| Wire cross-section, rigid min/max | mm ² |
| Wire cross-section, flexible min/max | mm ² |
| Wire cross-section, AWG/kcmil min/max | |

| | |
|------------------|------------------|
| Input | Output |
| Screw connection | Screw connection |
| 4 (+-) | 3 (CO contacts) |
| 0.5 / 6 | 0.5 / 6 |
| 0.5 / 4 | 0.5 / 2.5 |
| 26 / 12 | 26 / 12 |

For low-impedance connections, we recommend 2.5 mm².

Ordering data

| | |
|----------------------|--|
| Plastic clip-on foot | |
|----------------------|--|

| | | |
|-------------|-------------|-----------------|
| Type | Qty. | Part No. |
| CP M CAP | 1 | 1222240000 |

Note:

Fuse tripping

| Conductor cross section | B6 | B10 |
|-------------------------|-------|------|
| 0.75 mm ² | 10 m | |
| 1.0 mm ² | 14 m | 6 m |
| 1.5 mm ² | 20 m | 9 m |
| 2.5 mm ² | 30 m | 15 m |
| 4 mm ² | 50 m | 24 m |
| 6 mm ² | | |
| B16 | | |
| 0.75 mm ² | | |
| 1.0 mm ² | | |
| 1.5 mm ² | 4 m | |
| 2.5 mm ² | 6 m | |
| 4 mm ² | 10 m | |
| 6 mm ² | 16 m | |
| C2 C4 | | |
| 0.75 mm ² | 11 m | 6 m |
| 1.0 mm ² | 14 m | 8 m |
| 1.5 mm ² | 21 m | 12 m |
| 2.5 mm ² | 34 m | 19 m |
| 4 mm ² | | 32 m |
| 6 mm ² | | |
| C6 C10 | | |
| 0.75 mm ² | 3 m | |
| 1.0 mm ² | 3.5 m | 2 m |
| 1.5 mm ² | 5.5 m | 3 m |
| 2.5 mm ² | 9 m | 5 m |
| 4 mm ² | 14 m | 8 m |
| 6 mm ² | | 12 m |