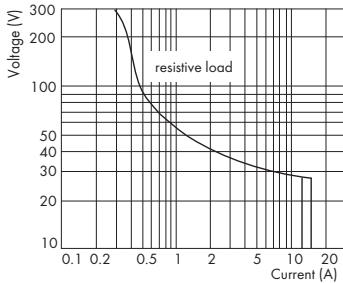


1 Sockets with Miniature Switching Relay

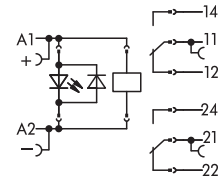
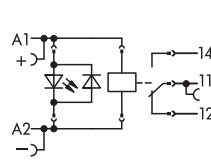
| | | |
|--|--|--|
| | Relay with 1 changeover contact and status indication (Relay height: 15 mm) Nominal input voltage V_N 12 V, 24 V, 48 V, 60 V, 110 V DC | Relay with 2 changeover contact and status indication (Relay height: 15 mm) Nominal input voltage V_N 12 V, 24 V, 48 V, 60 V, 110 V DC |
|--|--|--|



Load limit curve for 788-303 to 788-307, 788-506, 788-507 and 788-508



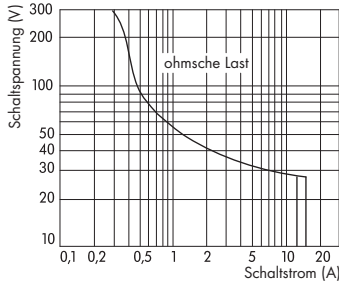
Note: Inductive loads have to be attenuated by an appropriate protective circuit in order to protect relay coils and contacts.



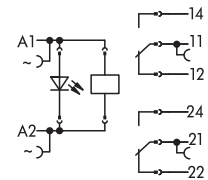
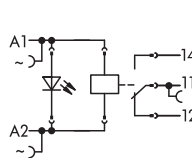
| Description | V_N | I_N | Item No. | Pack. unit | V_N | I_N | Item No. | Pack. unit |
|--|----------|---------|----------------|------------|----------|---------|----------------|------------|
| Relay sockets with pluggable miniature switching relay, for DIN 35 rail | 12 V DC | 36 mA | 788-303 | 1 | 12 V DC | 36 mA | 788-311 | 1 |
| | 24 V DC | 19.1 mA | 788-304 | 1 | 24 V DC | 19.1 mA | 788-312 | 1 |
| | 48 V DC | 11 mA | 788-305 | 1 | 48 V DC | 11 mA | 788-313 | 1 |
| | 60 V DC | 10.5 mA | 788-306 | 1 | 60 V DC | 10.5 mA | 788-314 | 1 |
| | 110 V DC | 6 mA | 788-307 | 1 | 110 V DC | 6 mA | 788-315 | 1 |

| Technical Data | Accessories see pages 86 ... 91 | |
|---|--|--|
| Contact material | AgNi 90/10 | AgNi 90/10 |
| Input voltage range | $V_N \pm 10\%$ | $V_N \pm 10\%$ |
| Max. switching voltage | 250 V AC | 250 V AC |
| Max. continuous current | 16 A | 2 x 8 A |
| Max. make current (resistive) at a 10 % duty cycle | 4 s 30 A (AC) | 4 s 15 A (AC) |
| Max. switching power (resistive) | 4 kVA AC, DC see load limit curve | 2 x 2 kVA AC, DC see load limit curve |
| Max. switching rate with / without load | 6 min ⁻¹ / 1200 min ⁻¹ | 6 min ⁻¹ / 1200 min ⁻¹ |
| Operating power | 400 mW typ. | 400 mW typ. |
| Pull-in/drop-out/bounce time typ. | 7 ms / 3 ms / 3 ms | 7 ms / 2 ms / 3 ms |
| Nominal operating mode | continuous duty | continuous duty |
| Dielectric strength contact-coil | 5 kV | 5 kV |
| Dielectric strength open contact | 1 kV | 1 kV |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 4 kV / 3 | 250 V / 4 kV / 3 |
| Mechanical life | 30 x 10 ⁶ switching operations | 30 x 10 ⁶ switching operations |
| Degree of protection | IP20 | IP20 |
| Ambient operating temperature | -25 °C ... +50 °C | -25 °C ... +50 °C |
| Storage temperature | -40 °C ... +70 °C | -40 °C ... +70 °C |
| Dimensions (mm) W x H x L | 15 x 54 x 86 | 15 x 54 x 86 |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP®S | Height from upper-edge of DIN 35 rail CAGE CLAMP®S |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 |
| Stripped lengths | 9 ... 10 mm / 0.37 in | 9 ... 10 mm / 0.37 in |
| Approvals | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II; UL 508 | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II; UL 508 |

| | | |
|--|---|---|
| | Relay with 1 changeover contact and status indication (Relay height: 15 mm) Nominal input voltage V_N 24 V, 115 V, 230 V AC | Relay with 2 changeover contact and status indication (Relay height: 15 mm) Nominal input voltage V_N AC 24 V, 115 V, 230 V |
|--|---|---|



Load limit curve for 788-311 to 788-315, 788-512, 788-515 and 788-516

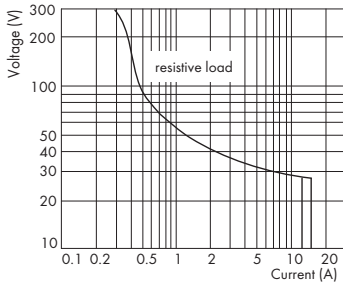


| Description | V_N | I_N | Item No. | Pack. unit | V_N | I_N | Item No. | Pack. unit |
|---|----------|--------|----------------|------------|----------|-------|----------------|------------|
| Relay sockets with pluggable miniature switching relay, for DIN 35 rail | 24 V AC | 34 mA | 788-506 | 1 | 24 V AC | 34 mA | 788-512 | 1 |
| | 115 V AC | 8 mA | 788-507 | 1 | 115 V AC | 8 mA | 788-515 | 1 |
| | 230 V AC | 4.3 mA | 788-508 | 1 | 230 V AC | 3 mA | 788-516 | 1 |

| Technical Data | Accessories see pages 86 ... 91 | |
|---|--|--|
| Contact material | AgNi 90/10 | AgNi 90/10 |
| Input voltage range | $V_N \pm 10\%$ | $V_N \pm 10\%$ |
| Max. switching voltage | 250 V AC | 250 V AC |
| Max. continuous current | 16 A | 2 x 8 A |
| Max. make current (resistive) at a 10 % duty cycle | 4 s 30 A (AC) | 4 s 15 A (AC) |
| Max. switching power (resistive) | 4 kVA AC, DC see load limit curve | 2 x 2 kVA AC, DC see load limit curve |
| Max. switching rate with / without load | 6 min ⁻¹ / 1200 min ⁻¹ | 6 min ⁻¹ / 1200 min ⁻¹ |
| Operating power | 0.75 VA | 0.75 VA |
| Pull-in/drop-out/bounce time typ. | 7 ms / 3 ms / 3 ms | 7 ms / 2 ms / 3 ms |
| Nominal operating mode | continuous duty | continuous duty |
| Dielectric strength contact-coil | 5 kV | 5 kV |
| Dielectric strength open contact | 1 kV | 1 kV |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 4 kV / 3 | 250 V / 4 kV / 3 |
| Mechanical life | 10 x 10 ⁶ switching operations | 5 x 10 ⁶ switching operations |
| Degree of protection | IP20 | IP20 |
| Ambient operating temperature | -25 °C ... +50 °C | -25 °C ... +50 °C |
| Storage temperature | -40 °C ... +70 °C | -40 °C ... +70 °C |
| Dimensions (mm) W x H x L | 15 x 54 x 86 | 15 x 54 x 86 |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP®S | Height from upper-edge of DIN 35 rail CAGE CLAMP®S |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 |
| Stripped lengths | 9 ... 10 mm / 0.37 in | 9 ... 10 mm / 0.37 in |
| Approvals | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II; Ⓢ ; UL 508 | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II; Ⓢ ; UL 508 |

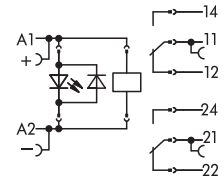
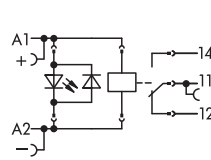
1 Sockets with Miniature Switching Relay

| | | |
|--|--|--|
| | Relay with 1 changeover contact with gold contacts and and status indication (Relay height: 15 mm) Nominal input voltage V_N 24 V DC | Relay with 2 changeover contact with gold contacts and and status indication (Relay height: 15 mm) Nominal input voltage V_N 24 V DC |
|--|--|--|



Load limit curve for 788-404, 788-607 and 788-608

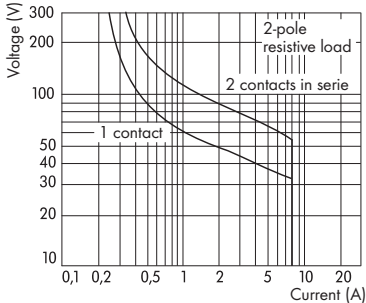
* In order to prevent the gold layer from being damaged these values should not be exceeded. Higher switching power leads to evaporation of the gold layer. The resulting deposits in the enclosure may cause sparkovers between the coil and the contact.



| Description | V_N | I_N | Item No. | Pack. unit | V_N | I_N | Item No. | Pack. unit |
|--|---------|-------|----------------|------------|---------|-------|----------------|------------|
| Relay sockets with pluggable miniature switching relay, for DIN 35 rail | 24 V DC | 19 mA | 788-404 | 1 | 24 V DC | 19 mA | 788-412 | 1 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Technical Data | Accessories see pages 86 ... 91 | | | | Accessories see pages 86 ... 91 | | | |
|---|--|--|--|--|--|--|--|--|
| Contact material | AgNi + 5 μ AU | | | | AgNi + 5 μ AU | | | |
| Input voltage range | $V_N \pm 10\%$ | | | | $V_N \pm 10\%$ | | | |
| Max. switching voltage | 250 V AC / 36 V DC* | | | | 250 V AC / 36 V DC* | | | |
| Max. continuous current | 50 mA* | | | | 2 x 50 mA* | | | |
| Max. Switching power (resistive) | 4 kVA AC, DC see load limit curve | | | | 2 x 2 kVA AC, DC see load limit curve | | | |
| Pull-in/drop-out time typ. | 7 ms / 3 ms | | | | 7 ms / 3 ms | | | |
| Nominal operating mode | continuous duty | | | | continuous duty | | | |
| Dielectric strength contact-coil | 5 kV | | | | 5 kV | | | |
| Dielectric strength open contact | 1 kV | | | | 1 kV | | | |
| Dielectric strength contact-contact | 2.5 kV | | | | 2.5 kV | | | |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 4 kV / 3 | | | | 250 V / 4 kV / 3 | | | |
| Mechanical life | 3 x 10 ⁷ switching operations | | | | 3 x 10 ⁷ switching operations | | | |
| Degree of protection | IP20 | | | | IP20 | | | |
| Ambient operating temperature | -25 °C ... +50 °C | | | | -25 °C ... +50 °C | | | |
| Storage temperature | -40 °C ... +70 °C | | | | -40 °C ... +70 °C | | | |
| Dimensions (mm) W x H x L | 15 x 54 x 86 | | | | 15 x 54 x 86 | | | |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP [®] S | | | | Height from upper-edge of DIN 35 rail CAGE CLAMP [®] S | | | |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | | | | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | | | |
| Stripped lengths | 9 ... 10 mm / 0.37 in | | | | 9 ... 10 mm / 0.37 in | | | |
| Approvals | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II | | | | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II | | | |
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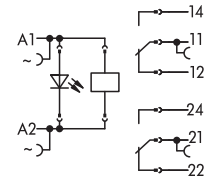
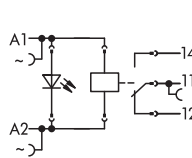
| | | |
|--|--|--|
| | Relay with 1 changeover contact with gold contacts and status indication (Relay height: 15 mm) Nominal input voltage V_N 115 V, 230 V AC | Relay with 2 changeover contact with gold contacts and status indication (Relay height: 15 mm) Nominal input voltage V_N 115 V, 230 V AC |
|--|--|--|



Load limit curve for 788-412, 788-615 and 788-616



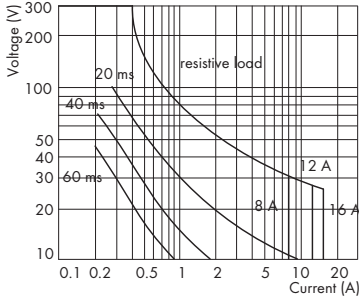
* In order to prevent the gold layer from being damaged these values should not be exceeded. Higher switching power leads to evaporation of the gold layer. The resulting deposits in the enclosure may cause sparkovers between the coil and the contact.



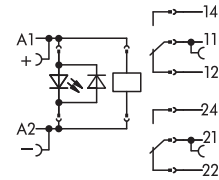
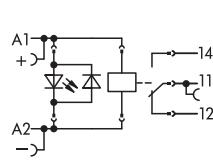
| Description | V_N | I_N | Item No. | Pack. unit | V_N | I_N | Item No. | Pack. unit |
|--|----------|--------|----------------|------------|----------|--------|----------------|------------|
| Relay sockets with pluggable miniature switching relay, for DIN 35 rail | 115 V AC | 8.2 mA | 788-607 | 1 | 115 V AC | 8.2 mA | 788-615 | 1 |
| | 230 V AC | 5 mA | 788-608 | 1 | 230 V AC | 5 mA | 788-616 | 1 |

| Technical Data | Accessories see pages 86 ... 91 | |
|---|---|---|
| Contact material | AgNi + 5 μ AU | AgNi + 5 μ AU |
| Input voltage range | $V_N \pm 10\%$ | $V_N \pm 10\%$ |
| Max. switching voltage | 250 V AC / 36 V DC* | 250 V AC / 36 V DC* |
| Max. continuous current | 50 mA* | 2 x 50 mA* |
| Max. Switching power (resistive) | 4 kVA AC, DC see load limit curve | 2 x 2 kVA AC, DC see load limit curve |
| Pull-in/drop-out time typ. | 7 ms / 3 ms | 7 ms / 3 ms |
| Nominal operating mode | continuous duty | continuous duty |
| Dielectric strength contact-coil | 5 kV | 5 kV |
| Dielectric strength open contact | 1 kV | 1 kV |
| Dielectric strength contact-contact | 2.5 kV | 2.5 kV |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 4 kV / 3 | 250 V / 4 kV / 3 |
| Mechanical life | 3 x 10 ⁷ switching operations | 3 x 10 ⁷ switching operations |
| Degree of protection | IP20 | IP20 |
| Ambient operating temperature | -25 °C ... +50 °C | -25 °C ... +50 °C |
| Storage temperature | -40 °C ... +70 °C | -40 °C ... +70 °C |
| Dimensions (mm) W x H x L | 15 x 54 x 86 | 15 x 54 x 86 |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP®S | Height from upper-edge of DIN 35 rail CAGE CLAMP®S |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 |
| Stripped lengths | 9 ... 10 mm / 0.37 in | 9 ... 10 mm / 0.37 in |
| Approvals | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II; Ⓢ | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II; Ⓢ |

| | | |
|--|---|---|
| | Relay with 1 changeover contact and status indication (Relay height: 25 mm) Nominal input voltage V_N 24 V DC | Relay with 2 changeover contact and status indication (Relay height: 25 mm) Nominal input voltage V_N 24 V DC |
|--|---|---|



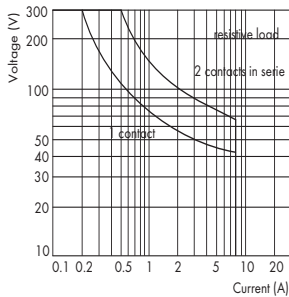
Load limit curve for 788-324 and 788-528



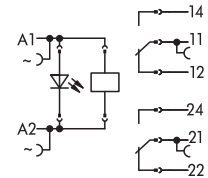
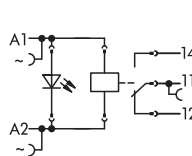
| Description | V_N | I_N | Item No. | Pack. unit | V_N | I_N | Item No. | Pack. unit |
|---|---------|-------|----------|------------|---------|-------|----------|------------|
| Relay sockets with pluggable miniature switching relay, for DIN 35 rail | 24 V DC | 22 mA | 788-324 | 1 | 24 V DC | 22 mA | 788-334 | 1 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| Technical Data | Accessories see pages 86 ... 91 | | | Accessories see pages 86 ... 91 | | |
|---|---|--|--|---|--|--|
| Contact material | AgCdO | | | AgCdO | | |
| Input voltage range | $V_N \pm 10\%$ | | | $V_N \pm 10\%$ | | |
| Max. switching voltage | 250 V AC | | | 250 V AC | | |
| Max. continuous current | 16 A | | | 2 x 8 A | | |
| Max. make current (resistive) at a 10 % duty cycle | 4 s 25 A (AC) | | | 4 s 14 A (AC) | | |
| Max. switching power (resistive) | 4 kVA AC, DC see load limit curve | | | 2 x 2 kVA AC, DC see load limit curve | | |
| Max. switching rate with / without load | 10 min ⁻¹ / 1200 min ⁻¹ | | | 10 min ⁻¹ / 1200 min ⁻¹ | | |
| Operating power | 500 mW typ. | | | 500 mW typ. | | |
| Pull-in/drop-out/bounce time typ. | 8 ms / 2 ms / 4 ms | | | 9 ms / 3 ms / 3 ms | | |
| Nominal operating mode | continuous duty | | | continuous duty | | |
| Dielectric strength contact-coil | 4 kV | | | 4 kV | | |
| Dielectric strength open contact | 1 kV | | | 1 kV | | |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 4 kV / 3 | | | 250 V / 4 kV / 3 | | |
| Mechanical life | 30 x 10 ⁶ switching operations | | | 20 x 10 ⁶ switching operations | | |
| Degree of protection | IP20 | | | IP20 | | |
| Ambient operating temperature | -25 °C ... +50 °C | | | -25 °C ... +50 °C | | |
| Storage temperature | -40 °C ... +70 °C | | | -40 °C ... +70 °C | | |
| Dimensions (mm) W x H x L | 15 x 64 x 86 | | | 15 x 64 x 86 | | |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP®S | | | Height from upper-edge of DIN 35 rail CAGE CLAMP®S | | |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | | | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | | |
| Stripped lengths | 9 ... 10 mm / 0.37 in | | | 9 ... 10 mm / 0.37 in | | |
| Approvals | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II; UL 508 (max. 40 °C) | | | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II; UL 508 (max. 40 °C) | | |
| | | | | | | |
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| | | |
|--|---|---|
| | <p>Relay with 1 changeover contact and status indication (Relay height: 25 mm) Nominal input voltage V_N 230 V AC</p> | <p>Relay with 2 changeover contact and status indication (Relay height: 25 mm) Nominal input voltage V_N 230 V AC</p> |
|--|---|---|



Load limit curve for 788-334 and 788-538

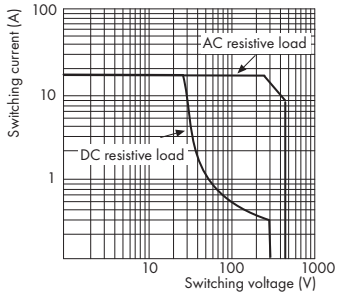


| Description | V_N | I_N | Item No. | Pack. unit | V_N | I_N | Item No. | Pack. unit |
|---|----------|--------|----------|------------|----------|--------|----------|------------|
| Relay sockets with pluggable miniature switching relay, for DIN 35 rail | 230 V AC | 5.6 mA | 788-528 | 1 | 230 V AC | 5.6 mA | 788-538 | 1 |
| | | | | | | | | |
| | | | | | | | | |
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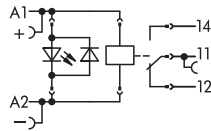
| Technical Data | Accessories see pages 86 ... 91 | | Accessories see pages 86 ... 91 | |
|---|---|--|---|--|
| Contact material | AgCdO | | AgCdO | |
| Input voltage range | $V_N \pm 10\%$ | | $V_N \pm 10\%$ | |
| Max. switching voltage | 250 V AC | | 250 V AC | |
| Max. continuous current | 16 A | | 2 x 8 A | |
| Max. make current (resistive) at a 10 % duty cycle | 4 s 14 A (AC) | | 4 s 14 A (AC) | |
| Max. switching power (resistive) | 4 kVA AC, DC see load limit curve | | 2 x 2 kVA AC, DC see load limit curve | |
| Max. switching rate with / without load | 10 min ⁻¹ / 1200 min ⁻¹ | | 10 min ⁻¹ / 1200 min ⁻¹ | |
| Operating power | 500 mW typ. | | 500 mW typ. | |
| Pull-in/drop-out/bounce time typ. | 8 ms / 2 ms / 4 ms | | 9 ms / 3 ms / 3 ms | |
| Nominal operating mode | continuous duty | | continuous duty | |
| Dielectric strength contact-coil | 4 kV | | 4 kV | |
| Dielectric strength open contact | 1 kV | | 1 kV | |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 4 kV / 3 | | 250 V / 4 kV / 3 | |
| Mechanical life | 30 x 10 ⁶ switching operations | | 20 x 10 ⁶ switching operations | |
| Degree of protection | IP20 | | IP20 | |
| Ambient operating temperature | -25 °C ... +50 °C | | -25 °C ... +50 °C | |
| Storage temperature | -40 °C ... +70 °C | | -40 °C ... +70 °C | |
| Dimensions (mm) W x H x L | 15 x 64 x 86 | | 15 x 64 x 86 | |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP®S | | Height from upper-edge of DIN 35 rail CAGE CLAMP®S | |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | |
| Stripped lengths | 9 ... 10 mm / 0.37 in | | 9 ... 10 mm / 0.37 in | |
| Approvals | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II; Ⓜ ; UL 508 (max. 40 °C) | | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II; Ⓜ ; UL 508 (max. 40 °C) | |
| | | | | |
| | | | | |
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1 Sockets with Miniature Switching Relay

Relay with 1 changeover contact and status indication
(Relay height: 15 mm)
Nominal input voltage V_N 24 V DC



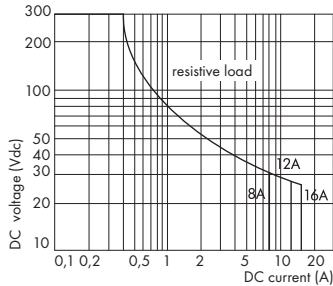
| Type of load | Capability | Electrical life |
|--|------------|-----------------|
| Incandescent lamp | 2200 W | 20.000 |
| Halogen lamp 230 V AC | 1400 W | 50.000 |
| Halogen trafo | 120 VA | 20.000 |
| Fluorescent lamp not comp., CB, cos φ 0,4,0,6 | 20 x 58 W | 25.000 |
| Fluorescent lamp comp., Conv. ballast, C parallel | 9 x 58 W | 25.000 |
| Fluorescent lamp comp., Conv. ballast, Duo-circuit | 600 W | 20.000 |
| Fluorescent lamp with electronic ballast | 12 x 58 W | 25.000 |
| Energy saving lamp 15 W | 25 pcs | 20.000 |
| Energy saving lamp 13 W | 30 pcs | 20.000 |
| Energy saving lamp 9 W | 38 pcs | 20.000 |
| Gas discharge lamp | 1000 W | 20.000 |
| Dulux-Lamp not compensated | 800 W | 20.000 |
| Dulux-Lamp compensated | 500 W | 20.000 |
| Max. capacitance at 230 V AC | 60 µF | min. 5.000 |



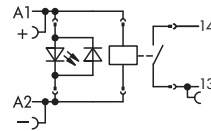
| Description | V_N | I_N | Item No. | Pack. unit |
|---|---------|-------|----------|------------|
| Relay sockets with pluggable miniature switching relay, for DIN 35 rail | 24 V DC | 19 mA | 788-354 | 1 |

| Technical Data | | Accessories see pages 86 ... 91 |
|---|--|---------------------------------|
| Contact material | Ag alloy | |
| Input voltage range | U_N -15 % ... +20 % | |
| Max. switching voltage | 250 V AC | |
| Max. continuous current | 16 A | |
| Max. make current (resistive) at a 10 % duty cycle | (50 ms) 120 A at 230 V AC | |
| Recommended minimum load | > 100 mA / 12 V AC/DC | |
| Max. Switching power (resistive) | 4 kVA AC, DC see load limit curve | |
| Operating power | 400 mW | |
| Pull-in/drop-out/bounce time typ. | 15 ms / 5 ms / - | |
| Nominal operating mode | continuous duty | |
| Dielectric strength contact-coil | 5 kV | |
| Dielectric strength open contact | 1 kV | |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 4 kV / 3 | |
| Mechanical life | 10 x 10 ⁶ switching operations | |
| Mechanical life at max. load (resistance) | min. 100.000 switching operations | |
| Service life at lamp load | see table lamp loads | |
| Degree of protection | IP20 | |
| Type of relay | ALZ | |
| Ambient operating temperature | -25 °C ... +50 °C | |
| Storage temperature | -40 °C ... +70 °C | |
| Dimensions (mm) W x H x L | 15 x 54 x 86 | |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP [®] S | |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | |
| Stripped lengths | 9 ... 10 mm / 0.37 in | |
| Approvals | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II; UL 508 | |

Relay with 1 make contact and status indication
(Relay height: 25 mm)
Nominal input voltage V_N 24 V DC



| Contact life at different lamp loads Load | Switching operations |
|---|----------------------|
| 12 A, 250 V AC, $\cos \phi = 1$ | 3×10^5 |
| TV 8 acc. to UL 508 | 25×10^3 |
| 2500 W, 230 V AC Halogen lamp | $> 10^4$ |
| 1000 W, 250 V AC Incandescent lamp | 2.3×10^5 |
| 3000 W, 250 V AC Incandescent lamp | 3.6×10^4 |
| 1500 VA, Fluorescent lamp 163 μ F | 10^4 |

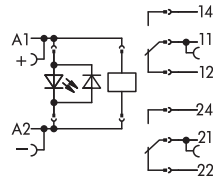
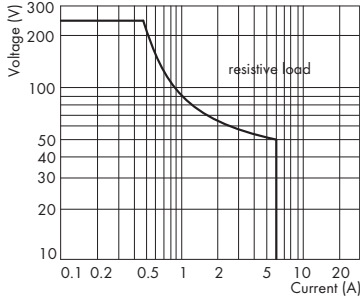


| Description | V_N | I_N | Item No. | Pack. unit |
|---|---------|---------|----------|------------|
| Relay sockets with pluggable miniature switching relay, for DIN 35 rail | 24 V DC | 21.8 mA | 788-355 | 1 |

| Technical Data | | Accessories see pages 86 ... 91 |
|---|--|---------------------------------|
| Contact material | AgSnO ₂ | |
| Input voltage range | $U_N -15 \% \dots +20 \%$ | |
| Max. switching voltage | 250 V AC | |
| Max. continuous current | 16 A | |
| Max. make current (resistive) at a 10 % duty cycle | 4 s 25 A (AC) | |
| Peak inrush current | 20 ms / 120 A | |
| Recommended minimum load | $> 100 \text{ mA} / 12 \text{ V AC/DC}$ | |
| Max. Switching power (resistive) | 4 kVA AC, DC see load limit curve | |
| Operating power | 500 mW | |
| Pull-in/drop-out/bounce time typ. | 8 ms / 2 ms / 2 ms | |
| Nominal operating mode | continuous duty | |
| Dielectric strength contact-coil | 4 kV | |
| Dielectric strength open contact | 1 kV | |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 4 kV / 3 | |
| Mechanical life | 30×10^6 switching operations | |
| Service life at lamp load | see table lamp loads | |
| Degree of protection | IP20 | |
| Type of relay | RP3SL | |
| Ambient operating temperature | $-25 \text{ }^\circ\text{C} \dots +50 \text{ }^\circ\text{C}$ | |
| Storage temperature | $-40 \text{ }^\circ\text{C} \dots +70 \text{ }^\circ\text{C}$ | |
| Dimensions (mm) W x H x L | 15 x 64 x 86 | |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP®S | |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | |
| Stripped lengths | 9 ... 10 mm / 0.37 in | |
| Approvals | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II; UL 508 | |

1 Sockets with Miniature Switching Relay

**Safety relay SR2M (2 changeover contacts)
with forced guided contacts and status
indication
(Relay height: 25 mm)
Nominal input voltage V_N 24 V DC**



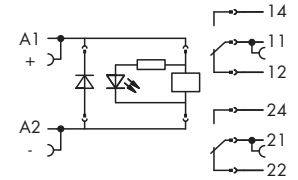
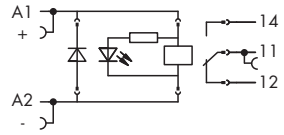
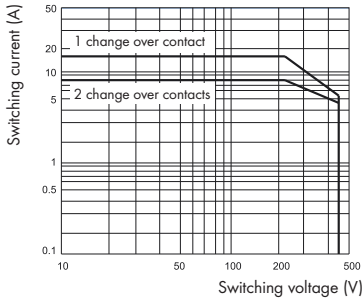
In accordance with EN 50205, it is only permitted to use 1 make contact / 1 break contact for safety circuits (11-14 and 22-21 or 12-11 and 21-24)

| Description | V_N | I_N | Item No. | Pack. unit |
|---|---------|-------|----------|------------|
| Relay sockets with pluggable miniature switching relay, for DIN 35 rail | 24 V DC | 31 mA | 788-384 | 1 |
| | | | | |
| | | | | |
| | | | | |

| Technical Data | | Accessories see pages 86 ... 91 |
|---|--|---------------------------------|
| Contact material | AgNi | |
| Input voltage range | $V_N \pm 10\%$ | |
| Max. switching voltage | 250 V AC | |
| Max. continuous current | 6 A | |
| Max. make current (resistive) at a 10 % duty cycle | 4 s 14 A (AC) | |
| Recommended minimum load | > 50 mW | |
| Max. Switching power (resistive) | AC 1500 VA; DC see load limit curve | |
| Max. switching rate with / without load | 6 min ⁻¹ / 300 min ⁻¹ | |
| Operating power | 700 mW | |
| Pull-in/drop-out time typ. | 10 ms / 4 ms | |
| Nominal operating mode | continuous duty | |
| Dielectric strength contact-coil | 4 kV | |
| Dielectric strength open contact | 1.5 kV | |
| Dielectric strength contact-contact | 3 kV | |
| Clearance and creepage distance contact / coil | 8 mm | |
| Adjacent contacts | 5.5 mm | |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 4 kV / 3 | |
| Mechanical life | 10 x 10 ⁶ switching operations | |
| Degree of protection | IP20 | |
| Ambient operating temperature | -25 °C ... +50 °C | |
| Storage temperature | -40 °C ... +70 °C | |
| Dimensions (mm) W x H x L | 15 x 64 x 86 | |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP®S | |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | |
| Stripped lengths | 9 ... 10 mm / 0.37 in | |
| Approvals | EN 50205; UL 508 | |
| | | |
| | | |

1 Sockets with Miniature Switching Relay

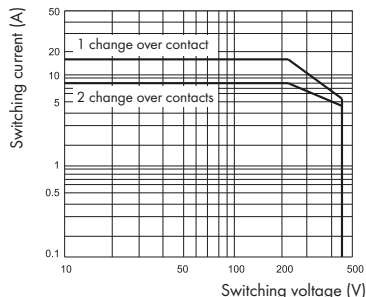
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| | Relay with 1 changeover contact Electrical and mechanical status indication Manual operation (Relay height: 25 mm) Nominal input voltage V_N: 24 V DC, 48 V DC, 110 V DC | Relay with 2 changeover contact Electrical and mechanical status indication Manual operation (Relay height: 25 mm) Nominal input voltage V_N: 24 V DC, 48 V DC, 110 V DC |
|--|--|--|



| Description | V_N | I_N | Item No. | Pack. Unit | V_N | I_N | Item No. | Pack. Unit |
|---|--|---------|----------------|------------|--|---------|----------------|------------|
| Relay sockets with pluggable miniature switching relay, for DIN 35 rail | 24 V DC | 16.7 mA | 788-341 | 1 | 24 V DC | 16.7 mA | 788-346 | 1 |
| | 48 V DC | 8.3 mA | 788-342 | 1 | 48 V DC | 8.3 mA | 788-347 | 1 |
| | 110 V DC | 3.6 mA | 788-344 | 1 | 110 V DC | 3.6 mA | 788-349 | 1 |
| Technical Data | Accessories see pages 86 ... 91 | | | | Accessories see pages 86 ... 91 | | | |
| Contact material | AgNi | | | | AgNi | | | |
| Input voltage range | $U_N \pm 10\%$ | | | | $U_N \pm 10\%$ | | | |
| Max. switching voltage | 250 V AC | | | | 250 V AC | | | |
| Max. continuous current | 16 A | | | | 2 x 8 A | | | |
| Max. Switching power (resistive) | 4 kVA AC | | | | 2 x 2 kVA AC | | | |
| Operating power | 400 mW typ. | | | | 400 mW typ. | | | |
| Response time/Drop-out time max. | 15 ms / 8 ms | | | | 15 ms / 8 ms | | | |
| Nominal operating mode | continuous duty | | | | continuous duty | | | |
| Dielectric strength contact-coil | 5 kV | | | | 5 kV | | | |
| Dielectric strength open contact | 1 kV | | | | 1 kV | | | |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 4 kV / 3 | | | | 250 V / 4 kV / 3 | | | |
| Mechanical life | 5×10^6 switching operations | | | | 5×10^6 switching operations | | | |
| Degree of protection | IP20 | | | | IP20 | | | |
| Ambient operating temperature | -25 °C ... +50 °C | | | | -25 °C ... +50 °C | | | |
| Storage temperature | -40 °C ... +70 °C | | | | -40 °C ... +70 °C | | | |
| Dimensions (mm) W x H x L | 15 x 73 x 86 | | | | 15 x 73 x 86 | | | |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP [®] S | | | | Height from upper-edge of DIN 35 rail CAGE CLAMP [®] S | | | |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | | | | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | | | |
| Stripped lengths | 9 ... 10 mm / 0.37 in | | | | 9 ... 10 mm / 0.37 in | | | |
| Standards/Specifications | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II | | | | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II | | | |

Relay with 1 changeover contact
Electrical and mechanical status indication
Manual operation
(Relay height: 25 mm)
Nominal input voltage V_N :
24 V AC, 115 V AC, 230 V AC

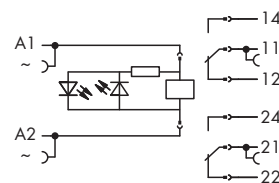
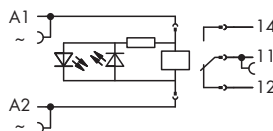
Relay with 2 changeover contact
Electrical and mechanical status indication
Manual operation
(Relay height: 25 mm)
Nominal input voltage V_N :
24 V AC, 115 V AC, 230 V AC



Similar to illustration



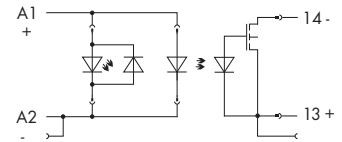
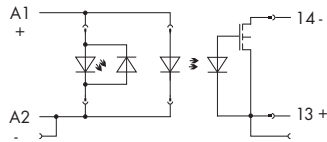
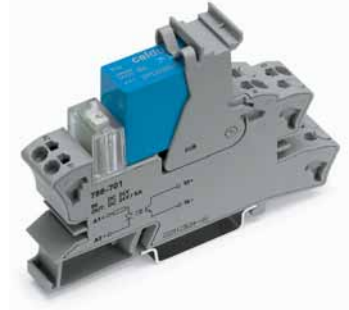
Similar to illustration



| Description | V_N | I_N | Item No. | Pack. Unit | V_N | I_N | Item No. | Pack. Unit |
|---|--|---------|----------------|------------|--|---------|----------------|------------|
| Relay sockets with pluggable miniature switching relay, for DIN 35 rail | 24 V DC | 31.6 mA | 788-541 | 1 | 24 V DC | 31.6 mA | 788-546 | 1 |
| | 115 V AC | 6.6 mA | 788-543 | 1 | 115 V AC | 6.6 mA | 788-548 | 1 |
| | 230 V AC | 3.2 mA | 788-544 | 1 | 230 V AC | 3.2 mA | 788-549 | 1 |
| Technical Data | Accessories see pages 86 ... 91 | | | | Accessories see pages 86 ... 91 | | | |
| Contact material | AgNi | | | | AgNi | | | |
| Input voltage range | $U_N \pm 10\%$ | | | | $U_N \pm 10\%$ | | | |
| Max. switching voltage | 250 V AC | | | | 250 V AC | | | |
| Max. continuous current | 16 A | | | | 2 x 8 A | | | |
| Max. switching power (resistive) | 4 kVA AC | | | | 2 x 2 kVA AC | | | |
| Operating power | 0.75 VA typ. | | | | 0.75 VA typ. | | | |
| Response time/Drop-out time max. | 15 ms / 8 ms | | | | 15 ms / 8 ms | | | |
| Nominal operating mode | continuous duty | | | | continuous duty | | | |
| Dielectric strength contact-coil | 5 kV | | | | 5 kV | | | |
| Dielectric strength open contact | 1 kV | | | | 1 kV | | | |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 4 kV / 3 | | | | 250 V / 4 kV / 3 | | | |
| Mechanical life | 5×10^6 switching operations | | | | 5×10^6 switching operations | | | |
| Degree of protection | IP20 | | | | IP20 | | | |
| Ambient operating temperature | -25 °C ... +50 °C | | | | -25 °C ... +50 °C | | | |
| Storage temperature | -40 °C ... +70 °C | | | | -40 °C ... +70 °C | | | |
| Dimensions (mm) W x H x L | 15 x 73 x 86 | | | | 15 x 73 x 86 | | | |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP®S | | | | Height from upper-edge of DIN 35 rail CAGE CLAMP®S | | | |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | | | | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | | | |
| Stripped lengths | 9 ... 10 mm / 0.37 in | | | | 9 ... 10 mm / 0.37 in | | | |
| Standards/Specifications | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II | | | | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II | | | |

1 Relay Sockets with Solid State Relay

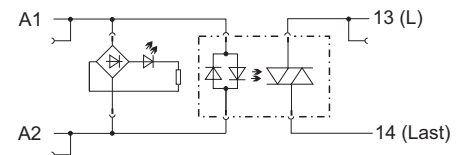
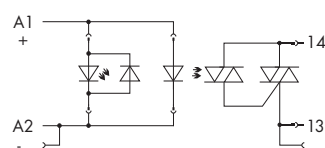
| | | |
|--|---|---|
| | Solid state relay Input: 24 V DC Output: 0 V ... 24 V DC / 3.5 A | Solid state relay Input: 24 V DC Output: 0 V ... 24 V DC / 5 A |
|--|---|---|



| Description | Item No. | Pack. Unit | Item No. | Pack. Unit |
|--|----------|------------|----------|------------|
| Relay socket with solid state relay, for DIN 35 rail | 788-700 | 1 | 788-701 | 1 |
| | | | | |
| | | | | |
| | | | | |

| Technical Data | Accessories see pages 89 ... 91 | Accessories see pages 89 ... 91 |
|---|--|--|
| Control circuit: | | |
| Nominal input voltage (V _N) | DC 24 V | DC 24 V |
| Input voltage range | DC 18 V ... 30 V | DC 15 V ... 30 V |
| Control current U _N (20 °C) | 7 mA ±10 % | 9.3 mA ±10 % |
| Release voltage | DC 8 V | DC 2.5 V |
| Control circuit resistance | 3.2 kΩ | 2.1 kΩ |
| Load circuit: | | |
| Load switching voltage range | DC 0 ... 24 V | DC 0 ... 30 V |
| Peak reverse voltage | 33 V | 36 V |
| Max. switching current | DC 3.5 A | DC12/DC13 (DC 5 A) |
| Min. switching current | | DC 1 mA |
| Pull-in time | | 50 μs |
| Drop-out time | | 600 μs |
| Switching frequency (max.) | | 100 Hz at 5 A |
| Forward voltage at max. switching current | < DC 0.1 V | DC 0.3 V |
| Nominal operating mode | continuous duty | continuous duty |
| Dielectric strength control/switching circuit | 2.5 kV | 2.5 kV |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 2.5 kV / 2 | 250 V / 2.5 kV / 2 |
| Degree of protection | IP 20 | IP 20 |
| Ambient operating temperature | -20 °C ... +60 °C | -40 °C ... +60 °C |
| Storage temperature | -40 °C ... +70 °C | -40 °C ... +70 °C |
| Dimensions (mm) W x H x L | 15 x 53 x 86 | 15 x 63 x 86 |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP®S | Height from upper-edge of DIN 35 rail CAGE CLAMP®S |
| Cross sections | 0.34 mm² ... 2.5 mm² / AWG 22 ... 12 | 0.34 mm² ... 2.5 mm² / AWG 22 ... 12 |
| Stripped lengths | 9 ... 10 mm / 0.37 in | 9 ... 10 mm / 0.37 in |
| Approvals | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II |

| | | |
|--|---|--|
| | Solid state relay Input: 24 V DC Output: 24 V ... 240 V AC / 1 A | Solid state relay Input: 24 V AC/DC Output: 12 - 275 VAC / 2 A Zero voltage switch |
|--|---|--|

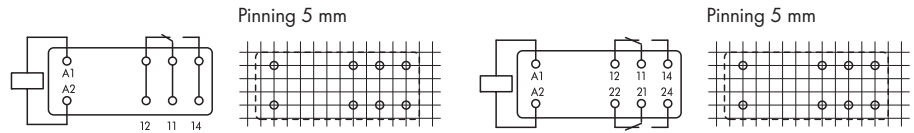
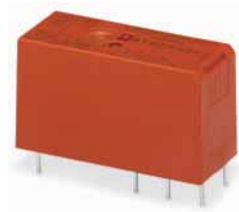
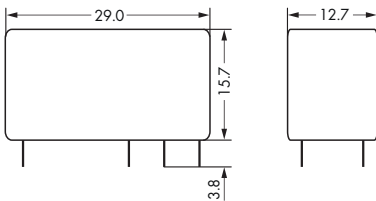


| Description | Item No. | Pack. unit | V _N | I _N | Item No. | Pack. Unit |
|--|----------|------------|----------------|----------------|----------|------------|
| Relay socket with solid state relay, for DIN 35 rail | 788-720 | 1 | 24 V | 10 mA | 788-721 | 1 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Technical Data | Accessories see pages 89 ... 91 | Accessories see pages 89 ... 91 |
|---|--|--|
| Control circuit: | | |
| Nominal input voltage (V _N) | 24 V DC | 24 V AC/DC |
| Input voltage range | 18 V ... 30 V DC | 15 - 30 VAC |
| Control current I _N (20°C) | 7 mA ±10 % | 10 mA |
| Release voltage | 4 V DC | 2.5 V AC/DC |
| Control circuit resistance | 3.2 kΩ | 2.1 kΩ |
| Load circuit: | | |
| Max. switching voltage | 240 V AC | 275 VAC |
| Load switching voltage range | 24 ... 240 V AC | 12 - 275 VAC (50/60 Hz) |
| Peak reverse voltage | 600 V | 600 V |
| Max. switching current | 1 A AC | 2A AC |
| Forward voltage at max. switching current | < 1 V AC | < 1.1 VAC |
| Nominal operating mode | continuous duty | |
| Dielectric strength control/switching circuit | 3.75 kV | 4 kV |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 2.5 kV / 2 | 250 V / 2.5 kV / 2 |
| Degree of protection | IP 20 | IP20 |
| Ambient operating temperature | -20 °C ... +60 °C | -20 °C ... +60 °C |
| Storage temperature | -40 °C ... +70 °C | -40 °C ... +70 °C |
| Dimensions (mm) W x H x L | 15 x 53 x 86 | 15 x 53 x 86 |
| Wire connection | Height from upper-edge of DIN 35 rail CAGE CLAMP® S | Height from upper-edge of DIN 35 rail CAGE CLAMP® S |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 |
| Stripped lengths | 9 ... 10 mm / 0.37 in | 9 ... 10 mm / 0.37 in |
| Approvals | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II |
| | | |
| | | |
| | | |

| | | |
|--|--|--|
| | Pluggable miniature switching relays (Relay height: 15 mm) 1 changeover contact | Pluggable miniature switching relays (Relay height: 15 mm) 2 changeover contact |
|--|--|--|

Relay height 15 mm

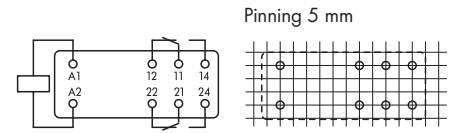
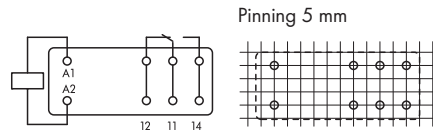
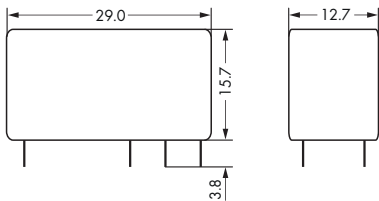


| Description | V _N | Item No. | Pack. unit | V _N | Item No. | Pack. unit |
|--------------------------------------|----------------|----------|------------|----------------|----------|------------|
| Pluggable miniature switching relays | 12 V DC | 788-150 | 20 | 12 V DC | 788-152 | 20 |
| | 24 V DC | 788-154 | 20 | 24 V DC | 788-156 | 20 |
| | 48 V DC | 788-158 | 20 | 48 V DC | 788-160 | 20 |
| | 60 V DC | 788-162 | 20 | 60 V DC | 788-164 | 20 |
| | 110 V DC | 788-166 | 20 | 110 V DC | 788-168 | 20 |
| | 24 V AC | 788-170 | 20 | 24 V AC | 788-172 | 20 |
| | 115 V AC | 788-174 | 20 | 115 V AC | 788-176 | 20 |
| | 230 V AC | 788-178 | 20 | 230 V AC | 788-180 | 20 |

| Technical Data | | |
|---------------------------------------|---|---|
| Contact material | AgNi | AgNi |
| Switching current | 16 A | 2 x 8 A |
| Inrush current | 30 A | 15 A |
| Max. switching voltage | 250 V AC | 250 V AC |
| Switching power | 4 kVA | 2 kVA |
| Min. switching current | 10 mA | 10 mA |
| Nominal consumption, typ | 400 mW | 400 mW |
| Pull-in/drop-out time typ. | 7 ms / 3 ms | 7 ms / 3 ms |
| Nominal operating mode | continuous duty | continuous duty |
| Mechanical life AC coil | > 10 x 10 ⁶ switching operations | > 5 x 10 ⁶ switching operations |
| Mechanical life DC coil | > 30 x 10 ⁶ switching operations | > 30 x 10 ⁶ switching operations |
| Dielectric strength contact-coil | 5 kV | 5 kV |
| Dielectric strength open contact | 1 kV | 1 kV |
| Dielectric strength contact-contact | | 2.5 kV |
| Weight | approx. 13.5 g | approx. 13.3 g |
| Degree of protection | IP40 | IP40 |
| Ambient operating temperature AC coil | -40 °C ... +70 °C | -40 °C ... +70 °C |
| Ambient operating temperature DC coil | -40 °C ... +85 °C | -40 °C ... +85 °C |
| Flammability acc. to UL 94 | V0 | V0 |

| | | |
|--|--|--|
| | Pluggable miniature switching relays (Relay height: 15 mm) 1 changeover contact (gold contacts) | Pluggable miniature switching relays (Relay height: 15 mm) 2 changeover contact (gold contacts) |
|--|--|--|

Relay height 15 mm



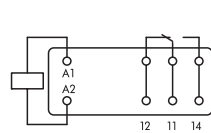
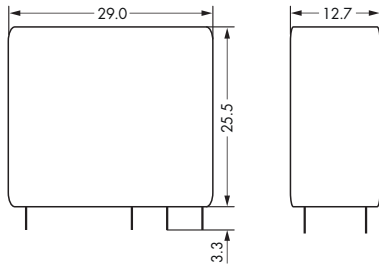
| Description | V _N | Item No. | Pack. unit | V _N | Item No. | Pack. unit |
|--------------------------------------|----------------|----------|------------|----------------|----------|------------|
| Pluggable miniature switching relays | 24 V DC | 788-155 | 20 | 24 V DC | 788-157 | 20 |
| | 115 V AC | 788-175 | 20 | 115 V AC | 788-177 | 20 |
| | 230 V AC | 788-179 | 20 | 230 V AC | 788-181 | 20 |

Technical Data

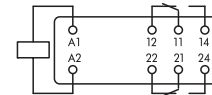
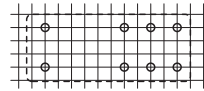
| Contact material | AgNi + 5 µm Au | AgNi + 5 µm Au |
|---------------------------------------|--|--|
| Switching current | 50 mA* | 2 x 50 mA* |
| Max. switching voltage | 36 V* DC | 36 V* DC |
| Switching power | min. 50 mW | min. 50 mW |
| Rated power consumption | 200 mW DC | 200 mW DC |
| Rated power consumption | 0.422 VA AC | 0.422 VA AC |
| Pull-in/drop-out time typ. | 7 ms / 3 ms | 7 ms / 3 ms |
| Nominal operating mode | continuous duty | continuous duty |
| Mechanical life AC coil | > 3 x 10 ⁷ switching operations | > 3 x 10 ⁷ switching operations |
| Mechanical life DC coil | > 3 x 10 ⁷ switching operations | > 3 x 10 ⁷ switching operations |
| Dielectric strength contact-coil | 5 kV | 5 kV |
| Dielectric strength open contact | 1 kV | 1 kV |
| Dielectric strength contact-contact | | 2.5 kV |
| Weight | approx. 11 g | approx. 15 g |
| Degree of protection | IP40 | IP40 |
| Ambient operating temperature AC coil | -40 °C ... +70 °C | -40 °C ... +70 °C |
| Ambient operating temperature DC coil | -40 °C ... +85 °C | -40 °C ... +85 °C |
| Flammability acc. to UL 94 | V0 | V0 |

| | | |
|--|--|--|
| | Pluggable miniature switching relays (Relay height: 25 mm) 1 changeover contact | Pluggable miniature switching relays (Relay height: 25 mm) 2 changeover contact |
|--|--|--|

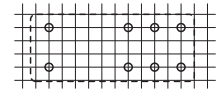
Relay height 25 mm



Pinning 5 mm



Pinning 5 mm



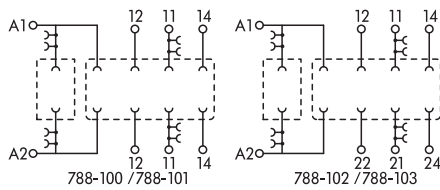
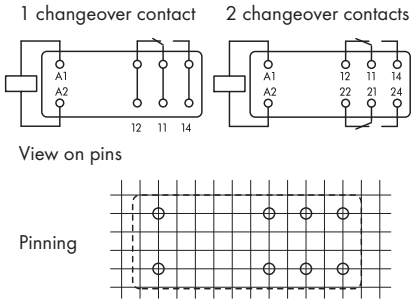
| Description | V _N | Item No. | Pack. unit | V _N | Item No. | Pack. unit |
|--------------------------------------|----------------|----------|------------|----------------|----------|------------|
| Pluggable miniature switching relays | 12 V DC | 788-182 | 20 | 12 V DC | 788-183 | 20 |
| | 24 V DC | 788-184 | 20 | 24 V DC | 788-185 | 20 |
| | 48 V DC | 788-186 | 20 | 48 V DC | 788-187 | 20 |
| | 60 V DC | 788-188 | 20 | 60 V DC | 788-189 | 20 |
| | 110 V DC | 788-190 | 20 | 110 V DC | 788-191 | 20 |
| | 230 V AC | 788-192 | 20 | 230 V AC | 788-193 | 20 |

Technical Data

| | 788-182 to 788-192 | 788-183 to 788-193 |
|---------------------------------------|---|---|
| Contact material | AgNi AgSnO (788-192) | AgNi AgSnO (788-193) |
| Switching current | 16 A | 2 x 8 A |
| Max. switching voltage | 250 V AC | 250 V AC |
| Switching power | 4 kVA | 2 kVA |
| Min. switching current | 100 mA | 10 mA |
| Rated power consumption | 500 mW DC | 500 mW DC |
| Rated power consumption | 1.2 VA AC | 1.2 VA AC |
| Pull-in/drop-out time typ. | 9 ms / 3 ms | 9 ms / 3 ms |
| Nominal operating mode | continuous duty | continuous duty |
| Mechanical life AC coil | > 10 x 10 ⁶ switching operations | > 10 x 10 ⁶ switching operations |
| Mechanical life DC coil | > 20 x 10 ⁶ switching operations | > 20 x 10 ⁶ switching operations |
| Dielectric strength contact-coil | 5 kV | 5 kV |
| Dielectric strength open contact | 1 kV | 1 kV |
| Dielectric strength contact-contact | | 2.5 kV |
| Weight | approx. 18 g | approx. 18 g |
| Degree of protection | IP40 | IP40 |
| Ambient operating temperature AC coil | -40 °C ... +70 °C | -40 °C ... +70 °C |
| Ambient operating temperature DC coil | -40 °C ... +85 °C | -40 °C ... +85 °C |
| Flammability acc. to UL 94 | V0 | V0 |

Sockets for Miniature Switching Relay

| | | |
|--|--|--|
| | Sockets for miniature switching relay 1 changeover contact / 2 changeover contact | |
|--|--|--|



| Description | Item No. | Pack. unit |
|--|----------------|------------|
| Socket without relay, for DIN 35 rail | | |
| Relay height 15 mm, 1 changeover contact | 788-100 | 1 |
| Relay height 15 mm, 2 changeover contacts | 788-102 | 1 |
| Relay height 25 mm, 1 changeover contact | 788-101 | 1 |
| Relay height 25 mm, 2 changeover contacts | 788-103 | 1 |

| Technical Data | | |
|---|--|--|
| Max. continuous current | 16 A / 2 x 8 A | |
| Nominal input voltage (V _N) | depending on relay; max. 250 V AC | |
| Dielectric strength | 5 kV (depending on relay) | |
| Max. switching voltage | 250 V AC | |
| Max. Switching power (resistive) | 4000 VA AC | |
| Nominal operating mode | continuous duty | |
| Nominal voltage acc. to VDE 0110 Part 1/4.97, IEC 60664-1 | 250 V / 4 kV / 3 | |
| Degree of protection | IP20 | |
| Ambient operating temperature | -25 °C ... +70 °C (depending on relay) | |
| Storage temperature | -40 °C ... +80 °C | |
| Wire connection | CAGE CLAMP®S | |
| Cross sections | 0.34 mm ² ... 2.5 mm ² / AWG 22 ... 12 | |
| Stripped lengths | 9 ... 10 mm / 0.37 in | |
| Approvals | DIN VDE 0140 part 1, DIN EN 61140; DIN VDE 0160, EN 50178; degree of protection II | |

1 Accessories, 788 Series

90

Status indication



| Description | Power consumption at V_N | Item No. | Pack. Unit |
|---|----------------------------|----------|------------|
| Status indication 24 V DC (12 V ... 24 V) | 2.4 mA | 788-120 | 50 (2x25) |
| Status indication 48 V DC (48 V ... 60 V) | 1.9 mA | 788-121 | 50 (2x25) |
| Status indication 110 V DC | 1.9 mA | 788-122 | 50 (2x25) |
| Status indication 24 V AC | 2.1 mA | 788-123 | 50 (2x25) |
| Status indication 115 V AC | 1.7 mA | 788-124 | 50 (2x25) |
| Status indication 230 V AC | 1.6 mA | 788-125 | 50 (2x25) |

Push-in type jumper bar 788-113



Commoning



Push-in type jumper bar



| Description | | | Item No. | Pack. Unit |
|---|-------|-----------------|----------|------------|
| Push-in type jumper bar, I max. 18 A | 2-way | (module/module) | 788-113 | 200 (8x25) |
| | 3-way | | 788-114 | 100 (4x25) |
| | 4-way | | 788-115 | 100 (4x25) |
| | 6-way | | 788-116 | 100 (4x25) |
| | 8-way | | 788-117 | 100 (4x25) |
| Push-in type jumper bars, light gray, insulated, 18 A | 2-way | (intern) | 859-402 | 200 (8x25) |

WMB Multi marking system



Marking



Group marker carrier



| Description | | Item No. | Pack. Unit |
|--|-----------------|----------|------------|
| WMB Multi marking system | plain | 793-501 | 5 cards |
| Marking software and printer/plotter see Section 8 | | | |
| Marking | 1 ... 10 (10x) | 793-502 | 5 cards |
| | 11 ... 20 (10x) | 793-503 | 5 cards |
| | 21 ... 30 (10x) | 793-504 | 5 cards |
| | 31 ... 40 (10x) | 793-505 | 5 cards |
| | 41 ... 50 (10x) | 793-506 | 5 cards |
| | 1 ... 50 (2x) | 793-566 | 5 cards |
| 10 strips with 10 markers, white with black printing | | | |
| Group marker carrier | | 209-112 | 50 (1x50) |

Operating tool



Wire connection



| Description | | Item No. | Pack. Unit |
|--|------------------------------|----------|------------|
| Operating tool, with partially insulated shaft | Type 2, blade (3.5 x 0.5) mm | 210-720 | 1 |
| | | | |
| | | | |
| | | | |

Ferrule



| Description | Sleeve for mm ² / AWG | Item No. | Pack. Unit |
|-------------------------------|----------------------------------|----------|------------|
| Ferrule, red insulated, 12 mm | 2 x 1 mm ² / 2 x 18 | 216-542 | 500 |
| | | | |
| | | | |
| | | | |