




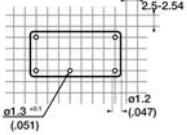
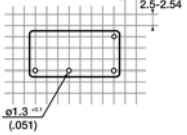
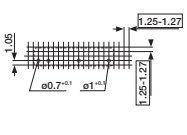
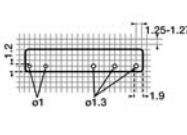
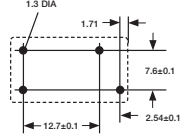





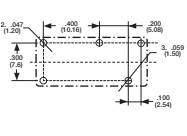
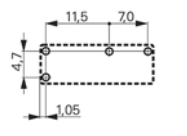
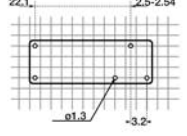
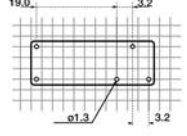
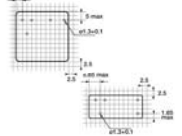





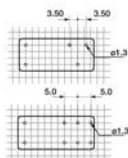
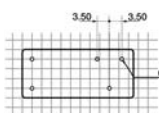
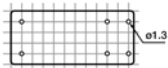
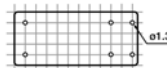
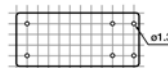





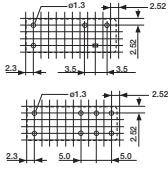
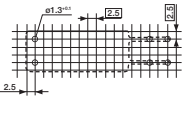
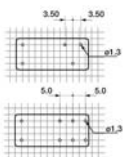
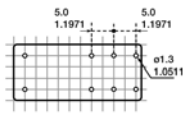
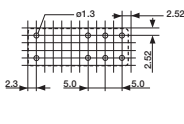





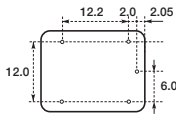
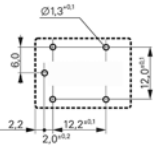
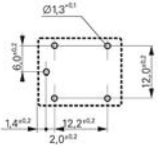
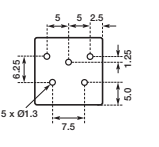
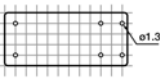







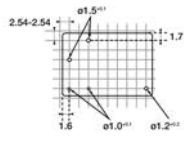
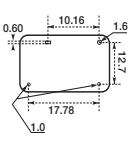
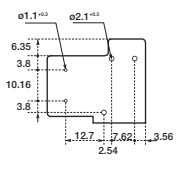
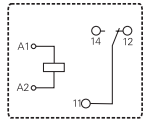
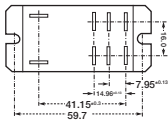
| Relay Type  | PE  | RE  | PCN  | SNR (V23092)  | OJ  |
|---|---|---|--|---|---|
|   |  |  |  |  |  |
|   |  |  |  |  |  |
| RoHS Status   | Compliant   | Compliant   | Compliant  | Compliant   | Compliant   |
| IEC 60335-1 materials                                   | Compliant versions  | Compliant versions  |  |   | Compliant versions  |
| <b>Contacts</b>   |   |   |  |   |   |
| Configuration   | 1 C/O   | 1 N/O   | 1 C/O  | 1 C/O   | 1 N/O   |
| Rated current   | 5 A   | 6 A   | 3 A  | 6 A   | 8 A   |
| Rated voltage (VAC)                                     | 240/400 VAC   | 240/400 VAC   | 240/277 VAC  | 240/400 VAC   | 240/400 VAC   |
| Maximum breaking capacity AC                            | 1250 VA   | 1500 VA   | 750 VA   | 1500 VA   | 1920 VA   |
| Contact material  | AgNi90/10   | AgCdO, AgNi90/10, AgNi0.15  | AgNi90/10  | AgSnO <sub>2</sub> , AgNi90/10  | AgSnO <sub>2</sub>  |
| <b>Coil</b>   |   |   |  |   |   |
| Coil voltage range (DC/AC)                              | 5 - 48 V / -  | 5 - 48 V / -  | 5 - 24 V / -   | 5 - 60 V / -  | 3 - 24 V / -  |
| Coil power  | 200 mW / -  | 200 mW / -  | 120mW / -  | 170 mW / -  | 200 mW / -  |
| Other coil versions                                     | Bistable  |   |  |   |   |
| <b>General data</b>                                     |   |   |  |   |   |
| Dielectric strength coil - contacts                     | 4000 VAC  | 4000 VAC  | 3000 VAC   | 4000 VAC  | 4000 VAC  |
| Clearance /creepage coil - contacts                     | 3.2 / 4 mm  | 4 / 4 mm  | 3.5 / 3.5 mm   | 6 / 8 mm  | 6 / 8 mm  |
| Temperature range / °C                                  | -40 to +85  | -40 to +70  | -30 to +70   | -40 to +85  | -30 to +85  |
| Sealing   | Flux tight, Washable  | Washable  | Washable   | Washable  | Flux tight  |
| Termination method                                      | PCB   | PCB   | PCB  | PCB   | PCB   |
| Dimensions (l x w x h) / mm                             | 20 x 10 x 10  | 20 x 10 x 10.6  | 20.0 x 5.0 x 12.5  | 28 x 5 x 15   | 18.2 x 10.2 x 14.7  |
| Approvals (Technical data on approved types on request) | VDE, cULus  | VDE, cULus  | VDE, cULus   | VDE, cULus  | VDE, cULus  |

| Relay Type  | PCH   | PCJ   | RY   | MSR (V23061)  | Card E (V23057)   |
|---|---|---|--|---|---|
|   |  |  |  |  |  |
|   |  |  |  |  |  |
| RoHS Status   | Compliant   | Compliant   | Compliant  | Compliant   | Compliant   |
| IEC 60335-1 materials                                   | Compliant versions  | Compliant versions  | Compliant  | Compliant   |   |
| <b>Contacts</b>   |   |   |  |   |   |
| Configuration   | 1 C/O, 1 N/O  | 1 N/O   | 1 N/O, 1 N/C, 1 C/O  | 1 N/O, 1 C/O  | 1 N/O, 1 C/O  |
| Rated current   | 5 A   | 3 / 5 A   | 8 A  | 8 / 10 A  | 8 / 5 A   |
| Rated voltage (VAC)                                     | 240/400 VAC   | 250/400 VAC   | 240/400 VAC  | 240/400 VAC   | 240/400 VAC   |
| Maximum breaking capacity AC                            | 1250 VA   | 750 / 1250 VA   | 2000 VA  | 2000 VA   | 2000 / 1250 VA  |
| Contact material  | AgSnO   | AgNi  | AgNi0.15, AgCdO, AgSnO <sub>2</sub>  | AgNi0.15, AgCdO, AgSnO  | AgNi 20, AgCdO, AgNi0.15  |
| <b>Coil</b>   |   |   |  |   |   |
| Coil voltage range (DC/AC)                              | 5 - 48 V / -  | 3 - 24 V / -  | 5 - 60 V / -   | 3 - 60 V / -  | 6 - 60 V / -  |
| Coil power  | 400 mW  | 200mW / -   | 220mW / -  | 220mW / -   | 450.500 mW / -  |
| Other coil versions                                     | 200 mW (only N/O)   |   |  |   |   |
| <b>General data</b>                                     |   |   |  |   |   |
| Dielectric strength coil - contacts                     | 4000 VAC  | 4000 VAC  | 5000 VAC   | 4000 VAC  | 4000 VAC  |
| Clearance /creepage coil - contacts                     | 4.5 / 9 mm  | 8 / 8 mm  | 8 / 8 mm   | 8 / 8 mm  | 4 / 4 mm  |
| Temperature range / °C                                  | -40 to +85  | -40 to +105   | -40 to +70   | -40 to +85  | -40 to +70  |
| Sealing   | Flux tight, Washable  | Flux tight, Washable  | Flux tight, Washable   | Flux tight, Washable  | Washable  |
| Termination method                                      | PCB   | PCB   | PCB  | PCB   | PCB   |
| Dimensions (l x w x h) / mm                             | 19.8 x 9.9 x 15.2   | 20.4 x 7 x 15   | 28.5 x 10.1 x 12.3   | 30 / 28.6 x 10 x 15   | 28 x 10.4 x 25.1  |
| Approvals (Technical data on approved types on request) | VDE, cULus  | VDE, UL   | VDE, cULus   | VDE, cULus  | VDE, cULus  |

| Relay Type  | RT1   | RT1 sensitive   | RT1 Inrush   | RT1 Inrush Power  | RTH 105°C   |
|---|---|---|--|---|---|
|   |  |  |  |  |  |
|   |  |  |  |  |  |
| RoHS Status   | Compliant   | Compliant   | Compliant  | Compliant   | Compliant   |
| IEC 60335-1 materials                                   | Compliant Versions  |   |  |   | Compliant versions  |
| <b>Contacts</b>   |   |   |  |   |   |
| Configuration   | 1 N/O, 1 C/O  | 1 N/O, 1 C/O  | 1 N/O, 1 C/O   | 1 N/O   | 1 C/O, 1 N/O  |
| Rated current   | 12 / 16 A   | 10 A  | 16 A (80 A Inrush)   | 16 A (800 A Inrush)   | 16 A  |
| Rated voltage (VAC)                                     | 240/400 VAC   | 240/400 VAC   | 240/400 VAC  | 250/400 VAC   | 240/400 VAC   |
| Maximum breaking capacity AC                            | 3000 / 4000 VA  | 2500 VA   | 4000 VA  | 4000 VA   | 4000 VA   |
| Contact material  | AgNi90/10   | AgNi90/10   | AgSnO2, AgNi90/10  | W (pre-make), AgSnO   | AgNi90/10   |
| <b>Coil</b>   |   |   |  |   |   |
| Coil voltage range (DC/AC)                              | 5 - 110 / 24 - 230  | 5 - 60 V / -  | 5 - 110 V / -  | 5 - 110 V / -   | 5 - 60 V / -  |
| Coil power  | 400mW / 0.75 VA   | 250 mW  | 400 mW   | 400mW / -   | 400mW / -   |
| Other coil versions                                     | Bistable 1 or 2 coils   |   | Bistable 1 or 2 coils  | Bistable 1 or 2 coil  |   |
| <b>General data</b>                                     |   |   |  |   |   |
| Dielectric strength coil - contacts                     | 5000 VAC  | 5000 VAC  | 5000 VAC   | 5000 VAC  | 5000 VAC  |
| Clearance /creepage coil - contacts                     | 10 / 10 mm  | 10 / 10 mm  | 10 / 10 mm   | 10 / 10 mm  | 10 / 10 mm  |
| Temperature range / °C                                  | -40 to +85  | -40 to +85  | -40 to +85   | -40 to +85  | -40 to +105   |
| Sealing   | Flux tight, Washable  | Flux tight, Washable  | Flux tight   | Flux tight  | Flux tight  |
| Termination method                                      | PCB   | PCB   | PCB  | PCB   | PCB   |
| Dimensions (l x w x h) / mm                             | 29 x 12.7 x 15.7  | 29 x 12.7 x 15.7  | 29 x 12.7 x 15.7   | 29 x 12.7 x 15.7 (28.2)   | 29 x 12.7 x 15.7  |
| Approvals (Technical data on approved types on request) | VDE, UL, CSA, BEAB  | VDE, UL, CSA  | VDE, UL, CSA   | VDE, UL, CSA  | VDE, UL, CSA  |

| Relay Type  | RX1   | RF  | RT1 Bifurcated   | RT2   | RX2   |
|---|---|---|--|---|---|
|   |  |  |  |  |  |
|   |  |  |  |  |  |
| RoHS Status   | Compliant   | Compliant   | Compliant  | Compliant   | Compliant   |
| IEC 60335-1 materials                                   |   | Compliant versions  |  | Compliant versions  |   |
| <b>Contacts</b>   |   |   |  |   |   |
| Configuration   | 1 N/O, 1 C/O  | 1 N/O, 1 C/O  | 1 N/O, 1 C/O   | 2 N/O, 2 C/O  | 2 C/O   |
| Rated current   | 12 / 16 A   | 16 A  | 12 / 16 A  | 8 A (UL: 10 A)  | 8 A   |
| Rated voltage (VAC)                                     | 240/400 VAC   | 240/400 VAC   | 250/400 VAC  | 240/400 VAC   | 240/400 VAC   |
| Maximum breaking capacity AC                            | 3000 / 4000 VA  | 4000 VA   | 3000 / 4000 VA   | 2000 VA   | 2000 VA   |
| Contact material  | AgNi90/10   | AgNi90/10   | AgNi90/10 gold plated  | AgNi90/10, AgSnO <sub>2</sub>   | AgNi90/10   |
| <b>Coil</b>   |   |   |  |   |   |
| Coil voltage range (DC/AC)                              | 5 - 110 / 24 - 230  | 5 - 60 V / -  | 5 - 110 V / -  | 5 - 110 / 24-230  | 5 - 110 / 24-230  |
| Coil power  | 520 mW / 0.75 VA  | 400 mW / -  | 200 mW, 400 mW / -   | 400 mW / 0.75 VA  | 520 mW / 0.75 VA  |
| Other coil versions                                     |   |   |  | Bistable 1 or 2 coils   |   |
| <b>General data</b>                                     |   |   |  |   |   |
| Dielectric strength coil - contacts                     | 4000 VAC  | 4000 VAC  | 5000 VAC   | 5000 VAC  | 4000 VAC  |
| Clearance /creepage coil - contacts                     | 8 / 8 mm  | 8 / 8 mm  | 10 / 10 mm   | 10 / 10 mm  | 8 / 8 mm  |
| Temperature range / °C                                  | -40 to +85 (+70 AC coil)  | -40 to +105   | -40 to +85   | -40 to +70  | -40 to +70  |
| Sealing   | Flux tight  | Flux tight  | Flux tight, Washable   | Flux tight, Washable  | Flux tight  |
| Termination method                                      | PCB   | PCB + Quick connect   | PCB  | PCB   | PCB   |
| Dimensions (l x w x h) / mm                             | 29 x 12.7 x 15.7  | 40.5 x 13.2 x 16  | 29 x 12.7 x 15.7   | 29 x 12.7 x 15.7  | 29 x 12.7 x 15.7  |
| Approvals (Technical data on approved types on request) | VDE, cULus  | VDE, cULus  | VDE, UL, CSA   | VDE, UL, CSA  | VDE, cULus  |

| Relay Type  | T7N   | LN / LNH  | T7S  | PB / PBH  | RP3SL   |
|---|---|---|--|---|---|
|   |  |  |  |  |  |
|   |  |  |  |  |  |
| RoHS Status   | Compliant   | Compliant   | Compliant  | Compliant   | Compliant   |
| IEC 60335-1 materials                                   | Compliant versions  | Compliant   | Compliant versions   | Compliant versions  |   |
| <b>Contacts</b>   |   |   |  |   |   |
| Configuration   | 1 N/O, 1 C/O  | 1 N/O, 1 C/O  | 1 N/O, 1 C/O   | 1 N/O, 1 C/O  | 1 N/O   |
| Rated current   | 10 A  | 10 A / 16 A   | 6 A / 10 A   | 10A (6A PBH)  | 16 A (120 A Inrush)   |
| Rated voltage (VAC)                                     | 240/400 VAC   | 240/400 VAC   | 240/400 VAC  | 240/400 VAC   | 250/400 VAC   |
| Maximum breaking capacity AC                            | 2500 VA   | 2500 VA / 4000 VA   | 2500 VA  | 2500 VA/1500 VA (PBH)   | 4000 VA / 3000 VA   |
| Contact material  | AgCdO, AgSnO <sub>2</sub>   | AgCdO, AgSnO <sub>2</sub>   | AgZnO, AgNi90/10   | AgSnO <sub>2</sub> , AgNi90/10  | AgSnO   |
| <b>Coil</b>   |   |   |  |   |   |
| Coil voltage range (DC/AC)                              | 3 - 48 V / -  | 6 - 48 V / -  | 5 - 36 V / -   | 5 - 48 V / -  | 5 - 110 V / -   |
| Coil power  | 360 mW / -  | 400 mW / -  | 360 mW / -   | 360 mW, 500 mW / -  | 520 mW / -  |
| Other coil versions                                     |   |   |  |   | Bistable 1 or 2 coils   |
| <b>General data</b>                                     |   |   |  |   |   |
| Dielectric strength coil - contacts                     | 2500 VAC  | 2000 VAC  | 1500 VAC   | 2500 VAC  | 4000 VAC  |
| Clearance /creepage coil - contacts                     | 2.5 / 3.5 mm  | 2.5 / 2.5 mm  | 2.5 / 2.5 mm   | 3.0 / 4.0 mm  | 8 / 8 mm  |
| Temperature range / °C                                  | -40 to +85  | -40 to +85 / 105  | -40 to +85 / 105   | -40 to +85 (105 PBH)  | -40 to +70  |
| Sealing   | Flux tight, washable  | Flux tight  | Flux tight, Washable   | Flux Proof  | Flux tight, Washable  |
| Termination method                                      | PCB   | PCB   | PCB  | PCB   | PCB   |
| Dimensions (l x w x h) / mm                             | 22.5 x 16.5 x 16.9  | 20.2 x 16.5 x 20.2  | 19.2 x 15.5 x 15.3   | 15.0 x 15.0 x 20.0  | 29 x 12.6 x 25.3  |
| Approvals (Technical data on approved types on request) | VDE, cULus  | VDE, cULus  | VDE, cULus   | VDE, cULus  | VDE (DC versions only), cULus   |

| Relay Type  | U (V23148)  | PCD   | T9A  | T9C   | T92   |
|---|---|---|--|---|---|
|   |  |  |  |  |  |
|   |  |  |  |  |  |
| RoHS Status   | Compliant   | Compliant   | Compliant  | Compliant   | Compliant   |
| <b>Contacts</b>   |   |   |  |   |   |
| Configuration   | 1 N/O, 1N/C, 1 C/O  | 1 N/O   | 1 N/O, 1 C/O   | 1 N/O, 1 C/O  | 2 N/O, 2 C/O  |
| Rated current   | 7 A / 5 A   | 10 A  | 30 A / 20 A  | 20 A / 10 A   | 20 A (30 A)   |
| Rated voltage (VAC)                                     | 240/400 VAC   | 240/400 VAC   | 240/400 VAC  | 250/400 VAC   | 400 / 600 VAC   |
| Maximum breaking capacity AC                            | 1750 / 1250 VA  | 2500 VA   | 7500 VA  | 5000 VA   | 12 / 1.2 kVA  |
| Contact material  | AgNi90/10   | AgSnO <sub>2</sub> , AgCdO  | AgCdO  | AgSnInO   | AgCdO   |
| <b>Coil</b>   |   |   |  |   |   |
| Coil voltage range (DC/AC)                              | 6 - 48 V / -  | 3 - 48 V / -  | 5 - 48 V / -   | - / 12 - 240 V  | 5 - 110 V / 24 - 240 V  |
| Coil power  | 330, 450mW / -  | 200mW / -   | 1000 mW  | 1.2 / 1.6 VA  | 1.7 W / 4.0 VA  |
| Other coil versions                                     | Bistable  |   |  |   |   |
| <b>General data</b>                                     |   |   |  |   |   |
| Dielectric strength coil - contacts                     | 4000, 2000 VAC  | 2500 VAC  | 2500 VAC   | 2500 VAC  | 4000 VAC  |
| Clearance /creepage coil - contacts                     | 3.5 / 3.5 mm  | 4 / 4 mm  | 3.1 / 6.3 mm   | 3.1 / 6.3 mm  | 8 / 9.5 mm  |
| Temperature range / °C                                  | - 25 to + 70  | -30 to +70  | - 55 to +85  | - 40 to + 70  | -40 to +70 / 65   |
| Sealing   | Washable  | Flux tight, washable  | Washable, Dustproof  | Dustproof   | Dust proof, Washable  |
| Termination method                                      | PCB   | PCB   | PCB, Quick connect   | Quick connect   | PCB, Quick connect, Screw   |
| Dimensions (l x w x h) / mm                             | 21.2 x 16.2 x 14.9  | 23 x 15.9 x 10.2  | 32.3 x 27.4 x 20.4   | 50.3 x 27.4 x 27.9  | 52.3 x 34.6 x 30.8  |
| Approvals (Technical data on approved types on request) | cULus   | cULus   | UL, CSA  | VDE, cULus  | VDE, UL, CSA  |