## Technical specifications

| Contactor |
| :--- |
| General data |
| Permissible mounting position |
| The contactors are designed for |
| operation on a vertical mounting |
| surface | surface.

Upright mounting position:

## 3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications 3RT14 Contactors for Switching Resistive Loads (AC-1)

3-pole, 140 ... 690 A

| Contactor | $\begin{aligned} & \text { Type } \\ & \text { Size } \end{aligned}$ |  | $\begin{aligned} & \text { 3RT14 } 46 \\ & \text { S3 } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Control |  |  |  |
| Magnetic coil operating range |  | AC/DC | $0.8 \ldots 1.1 \times U_{\text {S }}$ |
| Power consumption of the magnetic coils (when coil is cold and $1.0 \times U_{\text {S }}$ ) |  |  |  |
| Standard version, AC operation, 50 Hz | - Closing <br> - P.f. | VA | $\begin{aligned} & 270 \\ & 0.68 \end{aligned}$ |
|  | - Closed <br> - P.f. | VA | $\begin{aligned} & 22 \\ & 0.27 \end{aligned}$ |
| Standard version, <br> AC operation, $50 / 60 \mathrm{~Hz}$ | - Closing <br> - P.f. | VA | $\begin{aligned} & \text { 298/274 } \\ & 0.7 / 0.62 \end{aligned}$ |
|  | - Closed <br> - P.f. | VA | $\begin{aligned} & 27 / 20 \\ & 0.29 / 0.31 \end{aligned}$ |
| For USA and Canada, AC operation, 50 Hz | - Closing <br> - P.f. | VA | $\begin{aligned} & 270 \\ & 0.68 \end{aligned}$ |
|  | - Closed <br> - P.f. | VA | $\begin{aligned} & 22 \\ & 0.27 \end{aligned}$ |
| For USA and Canada, AC operation, 60 Hz | - Closing <br> - P.f. | VA | $\begin{aligned} & 300 \\ & 0.52 \end{aligned}$ |
|  | - Closed <br> - P.f. | VA | $\begin{aligned} & 21 \\ & 0.29 \end{aligned}$ |
| DC operation | Closing $=$ Closed | W | 15 |
| $\begin{aligned} & \text { Operating times for } 0.8 \ldots \mathbf{1 . 1} \times \mathbf{U}_{\mathbf{S}}{ }^{11} \\ & \text { Total break time }=\text { Opening delay }+ \text { Arcing time } \end{aligned}$ |  |  |  |
| - AC operation | Closing delay Opening delay | $\begin{aligned} & \mathrm{ms} \\ & \mathrm{~ms} \end{aligned}$ | $\begin{aligned} & 17 \ldots 90 \\ & 10 \ldots . .25 \end{aligned}$ |
| - DC operation | Closing delay Opening delay | ms | $\begin{aligned} & 90 \ldots 230 \\ & 14 \ldots 20 \end{aligned}$ |
| - Arcing time |  | ms | $10 \ldots 15$ |
| Operating times for $1.0 \times \mathbf{U}^{1}{ }^{1)}$ |  |  |  |
| - AC operation | Closing delay Opening delay | $\begin{aligned} & \mathrm{ms} \\ & \mathrm{~ms} \end{aligned}$ | $\begin{aligned} & 18 \ldots 30 \\ & 11 . . .23 \end{aligned}$ |
| - DC operation | Closing delay Opening delay | $\begin{aligned} & \mathrm{ms} \\ & \mathrm{~ms} \end{aligned}$ | $\begin{aligned} & 100 \ldots 120 \\ & 16 \ldots 20 \end{aligned}$ |

1) The OFF-delay of the NO contact and the ON-delay of the NC contact are increased if the contactor coils are attenuated against voltage peaks (varistor +2 ms to 5 ms , diode assembly: 2 to 6 times).

## 3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications 3RT14 Contactors for Switching Resistive Loads (AC-1)

3-pole, 140 ... 690 A



## Load rating with DC

## Utilization category DC-1, switching resistive loads ( $L / R \leq 1 \mathrm{~ms}$ )

Rated operational currents $I_{\mathrm{e}}\left(\right.$ at $60^{\circ} \mathrm{C}$ )

- 1 conducting path
- 2 conducting paths in series


## Utilization category DC-3/DC-5

## Shunt-wound and series-wound motors ( $L / R \leq 15 \mathrm{~ms}$ )

Rated operational currents $\boldsymbol{I}_{\mathrm{e}}\left(\right.$ at $\left.60^{\circ} \mathrm{C}\right)$

| - 1 conducting path | up to 24 V | A | 6 |
| :--- | ---: | :--- | :--- |
|  | 60 V | A | 3 |
|  | 110 V | A | 1.25 |
|  | 220 V | A | 0.35 |
|  | 440 V | A | 0.15 |
| - 2 conducting paths in series | 600 V | A | 0.1 |
|  | up to 24 V | A | 130 |
| 60 V | A | 130 |  |
|  | 110 V | A | 130 |
|  | 220 V | A | 1.75 |
|  | 440 V | A | 0.42 |
|  | 600 V | A | 0.27 |
|  | up to 24 V | A | 130 |
| 60 V | A | 130 |  |
|  | 110 V | A | 130 |
|  | 220 V | A | 4 |
|  | 440 V | A | 0.8 |
| 600 V | A | 0.45 |  |

## Switching frequency

## Switching frequency $\boldsymbol{z}$ in operating cycles/hour

| Contactors without overload relays | No-load switching frequency AC | $1 / \mathrm{h}$ | 5000 |
| :--- | :---: | :---: | :--- |
|  | No-load switching frequency DC | $1 / \mathrm{h}$ | 1000 |
| Rated operation | According to AC-1 (AC/DC) | $1 / \mathrm{h}$ | 650 |

[^0]
## 3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications 3RT14 Contactors for Switching Resistive Loads (AC-1)

## 3-pole, 140 ... 690 A

| Contactor | Type Size |  | $\begin{aligned} & \text { 3RT14 } 46 \\ & \text { S3 } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Conductor cross-sections |  |  |  |
| Screw terminals <br> (1 or 2 conductors can be connected) <br> Front clamping point connected | Main conductors: With box terminal |  |  |
|  | - Finely stranded with end sleeve <br> - Finely stranded without end sleeve | $\begin{aligned} & \mathrm{mm}^{2} \\ & \mathrm{~mm}^{2} \end{aligned}$ | $\begin{aligned} & 2.5 \ldots 50 \\ & 4 \ldots 50 \end{aligned}$ |
|  | - Solid <br> - Stranded | $\begin{aligned} & \mathrm{mm}^{2} \\ & \mathrm{~mm}^{2} \end{aligned}$ | $\begin{aligned} & 2.5 \ldots 16 \\ & 4 \ldots 70 \end{aligned}$ |
|  | - Ribbon cable conductors (number x width x circumference) | mm | $6 \times 9 \times 0.8$ |
|  | - AWG conductors, solid or stranded | AWG | 10... 2/0 |
| Rear clamping point connected | - Finely stranded with end sleeve <br> - Finely stranded without end sleeve | $\begin{aligned} & \mathrm{mm}^{2} \\ & \mathrm{~mm}^{2} \end{aligned}$ | $\begin{aligned} & 2.5 \ldots 50 \\ & 10 \ldots 50 \end{aligned}$ |
|  | - Solid <br> - Stranded <br> - Ribbon cable conductors (number x width x circumference) <br> - AWG conductors, solid or stranded | $\begin{aligned} & \mathrm{mm}^{2} \\ & \mathrm{~mm}^{2} \end{aligned}$ | $\begin{aligned} & 2.5 \ldots 16 \\ & 10 \ldots .70 \end{aligned}$ |
|  |  | mm | $6 \times 9 \times 0.8$ |
|  |  | AWG | 10... 2/0 |
| Both clamping points connected | - Finely stranded with end sleeve <br> - Finely stranded without end sleeve | $\begin{aligned} & \mathrm{mm}^{2} \\ & \mathrm{~mm}^{2} \end{aligned}$ | $\begin{aligned} & \text { Max. } 2 \times 35 \\ & \text { Max. } 2 \times 35 \end{aligned}$ |
|  | - Solid <br> - Stranded <br> - Ribbon cable conductors (number x width x circumference) | $\begin{aligned} & \mathrm{mm}^{2} \\ & \mathrm{~mm}^{2} \end{aligned}$ | $\begin{aligned} & \text { Max. } 2 \times 16 \\ & \text { Max. } 2 \times 50 \end{aligned}$ |
|  |  | mm | $2 \times(6 \times 9 \times 0.8)$ |
|  | - AWG conductors, solid or stranded <br> - Terminal screws <br> - Tightening torque | AWG | $2 \times(10 . . .1 / 0)$ |
|  |  | Nm | M6 (hexagon socket, A/F 4) <br> 4 ... 6 ( 36 ... $53 \mathrm{lb} . \mathrm{in}$ ) |
| Connection for drilled copper bars | Max. width ${ }^{1)}$ | mm | 10 |
|  | Main conductors: |  |  |
|  | Without box terminal with cable lugs ${ }^{2)}$ |  |  |
|  | - Finely stranded with cable lug <br> - Stranded with cable lug | $\begin{aligned} & \mathrm{mm}^{2} \\ & \mathrm{~mm}^{2} \end{aligned}$ | $\begin{aligned} & 10 \ldots 50^{3)} \\ & 10 \ldots 70^{3)} \end{aligned}$ |
|  | - AWG conductors, solid or stranded | AWG | $7 \ldots 1 / 0$ |
|  | Auxiliary conductors: |  |  |
|  | - Solid | $\mathrm{mm}^{2}$ | $2 \times(0.5 \ldots 1.5) 2 \times(0.75 \ldots 2.5)$ acc. to IEC 60947; max. $2 \times(0.75 \ldots 4)$ |
|  | - Finely stranded with end sleeve | $\mathrm{mm}^{2}$ | $2 \times(0.5 \ldots 1.5) 2 \times(0.75 \ldots 2.5)$ |
|  | - AWG conductors, solid or stranded | AWG | $2 \times(20 \ldots 16) 2 \times(18 \ldots 14) 1 \times 12$ |
|  | - Terminal screws <br> - Tightening torque | Nm | $\begin{aligned} & \text { M3 } \\ & 0.8 \text {... } 1.2 \text { ( } 7 \ldots 10.3 \mathrm{lb} . \text { in }) \end{aligned}$ |

1) If bars larger than $12 \times 10 \mathrm{~mm}$ are connected, a 3RT19 46-4EA1 terminal cover is needed to comply with the phase clearance.
2) When connecting rails which are larger than $25 \mathrm{~mm}^{2}$, the 3RT19 46-4EA1 cover must be used to keep the phase clearance.
3) Only with crimped cable lugs according to DIN 46234. Cable lug max. 20 mm wide.

## 3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications 3RT14 Contactors for Switching Resistive Loads (AC-1)

3-pole, 140 ... 690 A

Technical specifications

${ }^{1)}$ See conductor cross-sections on pages 3/100, 3/101.
2) See Electromagnetic Compatibility (EMC) on page 3/12.

## 3-pole, 140 ... 690 A



## Main circuit

AC capacity
Utilization category AC-1, switching resistive loads
Rated operational currents $I_{\mathrm{e}}$
at $40^{\circ} \mathrm{C}$ up to $690 \vee \mathrm{~A}$
at $60^{\circ} \mathrm{C}$ up to $690 \vee \mathrm{~A}$

|  |  |  |
| ---: | :--- | :--- |
| 275 | 400 | 690 |
| 250 | 380 | $650^{1)}$ |
| 100 | 150 | 250 |
| 95 | 145 | 245 |
| 165 | 250 | 430 |
| 205 | 315 | 535 |
| 285 | 430 | 740 |
| 165 | 247 | 410 |
| $2 \times 70$ | 240 | $2 \times 240$ |
| 120 | 240 | $2 \times 240$ |
| 20 | 27 | 55 |
|  |  |  |
|  | 138 | 170 |
| 97 | 37 | 55 |
| 30 | 75 | 90 |
| 55 | 90 | 110 |
| 55 | 132 | 160 |
| 90 |  |  |

1) 600 A for $3 R T 1476-\mathrm{N}$ contactor.
2) Industrial furnaces and electric heaters with resistance heating, etc. increased power consumption on heating up taken into account).

## 3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications 3RT14 Contactors for Switching Resistive Loads (AC-1)

3-pole, 140 ... 690 A

| Contactor | Type Size |  | $\begin{aligned} & \text { 3RT14 } 56 \\ & \text { S6 } \end{aligned}$ | $\begin{aligned} & \text { 3RT14 } 66 \\ & \text { S10 } \end{aligned}$ | $\begin{aligned} & \text { 3RT14 } 76 \\ & \text { S12 } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Main circuit |  |  |  |  |  |
| Load rating with DC |  |  |  |  |  |
| Utilization category DC-1, switching resistive loads ( $L / R \leq 1 \mathrm{~ms}$ ) Rated operational current $I_{\mathrm{e}}$ (at $60^{\circ} \mathrm{C}$ ) |  |  |  |  |  |
| - 1 conducting path | $\begin{array}{r} \text { up to } 24 \mathrm{~V} \\ 60 \mathrm{~V} \\ 110 \mathrm{~V} \end{array}$ | $\begin{aligned} & A \\ & A \\ & A \end{aligned}$ | $\begin{array}{r} 250 \\ 250 \\ 18 \end{array}$ | $\begin{array}{r} 380 \\ 380 \\ 33 \end{array}$ | $\begin{array}{r} 500 \\ 500 \\ 33 \end{array}$ |
|  | $\begin{aligned} & 220 \mathrm{~V} \\ & 440 \mathrm{~V} \\ & 600 \mathrm{~V} \end{aligned}$ | A A A | $\begin{aligned} & 3.4 \\ & 0.8 \\ & 0.5 \end{aligned}$ | $\begin{aligned} & 3.8 \\ & 0.9 \\ & 0.6 \end{aligned}$ | $\begin{aligned} & 3.8 \\ & 0.9 \\ & 0.6 \end{aligned}$ |
| - 2 conducting paths in series | $\begin{array}{r} \text { up to } 24 \mathrm{~V} \\ 60 \mathrm{~V} \\ 110 \mathrm{~V} \end{array}$ | A A A | $\begin{aligned} & 250 \\ & 250 \\ & 250 \end{aligned}$ | $\begin{aligned} & 380 \\ & 380 \\ & 380 \end{aligned}$ | $\begin{aligned} & 500 \\ & 500 \\ & 500 \end{aligned}$ |
|  | $\begin{aligned} & 220 \mathrm{~V} \\ & 440 \mathrm{~V} \\ & 600 \mathrm{~V} \end{aligned}$ | A A A | $\begin{aligned} & 20 \\ & 3.2 \\ & 1.6 \end{aligned}$ | $\begin{aligned} & 380 \\ & 4 \\ & 2 \end{aligned}$ | $\begin{aligned} & 500 \\ & 4 \\ & 2 \end{aligned}$ |
| - 3 conducting paths in series | $\begin{array}{r} \text { up to } 24 \mathrm{~V} \\ 60 \mathrm{~V} \\ 110 \mathrm{~V} \end{array}$ | A A A | $\begin{aligned} & 250 \\ & 250 \\ & 250 \end{aligned}$ | $\begin{aligned} & 380 \\ & 380 \\ & 380 \end{aligned}$ | $\begin{aligned} & 500 \\ & 500 \\ & 500 \end{aligned}$ |
|  | $\begin{aligned} & 220 \mathrm{~V} \\ & 440 \mathrm{~V} \\ & 600 \mathrm{~V} \end{aligned}$ | A A A | $\begin{aligned} & 250 \\ & 11.5 \\ & 4 \end{aligned}$ | $\begin{aligned} & 380 \\ & 11 \\ & 5.2 \end{aligned}$ | $\begin{aligned} & 500 \\ & 11 \\ & 5.2 \end{aligned}$ |
| Utilization category DC-3/DC-5 <br> Shunt-wound and series-wound motors ( $L / R \leq 15 \mathrm{~ms}$ ) Rated operational current $I_{\mathrm{e}}\left(\right.$ at $\left.60^{\circ} \mathrm{C}\right)$ |  |  |  |  |  |
| - 1 conducting path | $\begin{array}{r} \text { up to } 24 \mathrm{~V} \\ 60 \mathrm{~V} \\ 110 \mathrm{~V} \end{array}$ | A A A | $\begin{aligned} & 250 \\ & 7.5 \\ & 2.5 \end{aligned}$ | $\begin{aligned} & 380 \\ & 11 \\ & 3 \end{aligned}$ | $\begin{aligned} & 500 \\ & 11 \\ & 3 \end{aligned}$ |
|  | $\begin{aligned} & 220 \mathrm{~V} \\ & 440 \mathrm{~V} \\ & 600 \mathrm{~V} \end{aligned}$ | A A A | $\begin{aligned} & 0.6 \\ & 0.17 \\ & 0.12 \end{aligned}$ | $\begin{aligned} & 0.6 \\ & 0.18 \\ & 0.125 \end{aligned}$ | $\begin{aligned} & 0.6 \\ & 0.18 \\ & 0.125 \end{aligned}$ |
| - 2 conducting paths in series | $\begin{array}{r} \text { up to } 24 \mathrm{~V} \\ 60 \mathrm{~V} \\ 110 \mathrm{~V} \end{array}$ | A A A | $\begin{aligned} & 250 \\ & 250 \\ & 250 \end{aligned}$ | $\begin{aligned} & 380 \\ & 380 \\ & 380 \end{aligned}$ | $\begin{aligned} & 500 \\ & 500 \\ & 500 \end{aligned}$ |
|  | $\begin{aligned} & 220 \mathrm{~V} \\ & 440 \mathrm{~V} \\ & 600 \mathrm{~V} \end{aligned}$ | A A A | $\begin{aligned} & 2.5 \\ & 0.65 \\ & 0.37 \end{aligned}$ | $\begin{aligned} & 2.5 \\ & 0.65 \\ & 0.37 \end{aligned}$ | $\begin{aligned} & 2.5 \\ & 0.65 \\ & 0.37 \end{aligned}$ |
| - 3 conducting paths in series | $\begin{array}{r} \text { up to } 24 \mathrm{~V} \\ 60 \mathrm{~V} \\ 110 \mathrm{~V} \end{array}$ | A A A | $\begin{aligned} & 250 \\ & 250 \\ & 250 \end{aligned}$ | $\begin{aligned} & 380 \\ & 380 \\ & 380 \end{aligned}$ | $\begin{aligned} & 500 \\ & 500 \\ & 500 \end{aligned}$ |
|  | $\begin{aligned} & 220 \mathrm{~V} \\ & 440 \mathrm{~V} \\ & 600 \mathrm{~V} \end{aligned}$ | A A A | $\begin{aligned} & 250 \\ & 1.4 \\ & 0.75 \end{aligned}$ | $\begin{aligned} & 380 \\ & 1.4 \\ & 0.75 \end{aligned}$ | $\begin{aligned} & 500 \\ & 1.4 \\ & 0.75 \end{aligned}$ |

## Switching frequency

Switching frequency $\boldsymbol{z}$ in operating cycles/hour

| Contactors without overload relays | No-load switching frequency | $h^{-1}$ | 2000 |
| :--- | ---: | ---: | ---: |
|  | AC-1 | $h^{-1}$ | 600 |
| AC-3 | $h^{-1}$ | 1000 |  |

Dependence of the switching
frequency $z$ ' on the operational
current $I^{\prime}$ and operational voltage $U^{\prime}$ :
$z^{\prime}=z \cdot\left(I_{\mathrm{e}} / I^{\prime}\right) \cdot(400 \mathrm{~V} / U)^{1.5} \cdot 1 / \mathrm{h}$

## 3-pole, 140 ... 690 A

| Contactor | Type Size |  | $\begin{aligned} & \text { 3RT14 } 56 \\ & \text { S6 } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Conductor cross-sections |  |  |  |
| Screw terminals | Main conductors: <br> With 3RT19 55-4G box terminal |  |  |
| Front or rear clamping point connected | - Finely stranded with end sleeve <br> - Finely stranded without end sleeve | $\begin{aligned} & \mathrm{mm}^{2} \\ & \mathrm{~mm}^{2} \end{aligned}$ | $\begin{aligned} & 16 \ldots 70 \\ & 16 \ldots . .70 \end{aligned}$ |
|  | - Stranded <br> - Ribbon cable conductors | $\mathrm{mm}^{2}$ | $16 . . .70$ |
|  | - Ribbon cable conductors (number x width $\times$ circumference) | mm | $3 \times 9 \times 0.8 \ldots 6 \times 15.5 \times 0.8$ |
|  | - AWG conductors, solid or stranded | AWG | 6 ... 2/0 |
| Both clamping points connected |  |  |  |
|  | - Finely stranded with end sleeves, max. <br> - Finely stranded without end sleeve <br> - Stranded (max.) | $\begin{aligned} & \mathrm{mm}^{2} \\ & \mathrm{~mm}^{2} \end{aligned}$ | $\begin{aligned} & 1 \times 50,1 \times 70 \\ & 1 \times 50,1 \times 70 \end{aligned}$ |
|  |  | $\mathrm{mm}^{2}$ | $2 \times 70$ |
|  | - Ribbon cable conductors (number x width x circumference), max. | mm | $2 \times(6 \times 15.5 \times 0.8)$ |
|  | - AWG conductors, solid or stranded, max. | AWG | $2 \times 1 / 0$ |
| Front or rear clamping point connected | Main conductors <br> With 3RT19 56-4G box terminal |  |  |
|  | - Finely stranded with end sleeve <br> - Finely stranded without end sleeve | $\begin{aligned} & \mathrm{mm}^{2} \\ & \mathrm{~mm}^{2} \end{aligned}$ | $\begin{aligned} & 16 \ldots 120 \\ & 16 \ldots 120 \end{aligned}$ |
|  | - Stranded | $\mathrm{mm}^{2}$ | $16 . .120$ |
|  | - Ribbon cable conductors (number x width x circumference) | mm | $3 \times 9 \times 0.8 \ldots 10 \times 15.5 \times 0.8$ |
|  | - AWG conductors, solid or stranded | AWG | 6 ... 250 kcmil |
| Both clamping points connected |  |  |  |
|  | - Finely stranded with end sleeves, max. <br> - Finely stranded without end sleeve | $\frac{\mathrm{mm}^{2}}{\mathrm{~mm}^{2}}$ | $\begin{aligned} & 1 \times 95,1 \times 120 \\ & 1 \times 95,1 \times 120 \end{aligned}$ |
|  | - Stranded (max.) | $\mathrm{mm}^{2}$ | $2 \times 120$ |
|  | - Ribbon cable conductors (number x width x circumference), max. | mm | $2 \times(10 \times 15.5 \times 0.8)$ |
|  | - AWG conductors, solid or stranded, max. <br> - Terminal screws <br> - Tightening torque | AWG Nm | $2 \times 3 / 0$ <br> M10 (hexagon socket, A/F4) 10 ... 12 ( 90 ... $110 \mathrm{lb} . \mathrm{in}$ ) |
| Screw terminals | Main conductors: <br> Without box terminal/rail connection ${ }^{1)}$ |  |  |
|  | - Finely stranded with cable lug <br> - Stranded with cable lug |  | $\begin{aligned} & 16 \ldots 95 \\ & 25 \ldots 120 \end{aligned}$ |
|  | - AWG conductors, solid or stranded |  | 4 ... 250 kcmil |
|  | - Connecting bar (max. width) |  | 17 |
|  | - Terminal screw <br> - Tightening torque |  | $\begin{aligned} & \text { M8 } \times 25(\mathrm{~A} / \mathrm{F} 13) \\ & 10 \ldots 14(90 \ldots 110) \mathrm{lb} . \mathrm{in} \end{aligned}$ |
|  | Auxiliary conductors: |  |  |
|  | - Conductor cross-section - Solid |  | $\begin{aligned} & \left.2 \times(0.5 \ldots 1.5)^{2)} ; 2 \times(0.75 \ldots 2.5)^{2}\right) \text { according to IEC 60947; max. } 2 \times \\ & (0.75 \ldots 4) \\ & 2 \times(0.5 \ldots 1.5)^{2)} ; 2 \times(0.75 \ldots 2.5)^{2)} \\ & 2 \times(18 \ldots 14) \end{aligned}$ |
|  | - Terminal screw <br> - Tightening torque | Nm | M3 (PZ 2) <br> 0.8 ... 1.2 (7 ... 10.3) lb.in |

1) When connecting cable lugs according to DIN 46235, use the 3RT19 56-4EA1 terminal cover for conductor cross-sections from $95 \mathrm{~mm}^{2}$ to ensure phase spacing.
2) If two different conductor cross-sections are connected at one clamping point, then the two cross-sections must lie within the range quoted. If identical cross-sections are used, this restriction does not apply.

## 3RT, 3RH, 3TB, 3TC, 3TH, 3TK Contactors for Special Applications 3RT14 Contactors for Switching Resistive Loads (AC-1)

3-pole, 140 ... 690 A

| Contactor | Type <br> Size |  | 3RT14 66 |
| :--- | :--- | :--- | :--- | :--- |
| S10 |  |  |  |

1) When connecting cable lugs to DIN 46234 , the 3RT19 66-4EA1 terminal cover must be used for conductor cross-sections of $240 \mathrm{~mm}^{2}$ and more as well as DIN 46235 for conductor cross-sections of $185 \mathrm{~mm}^{2}$ and more to keep the phase clearance.
${ }^{2)}$ If two different conductor cross-sections are connected at one clamping point, then the two cross-sections must lie within the range quoted. If identical cross-sections are used, this restriction does not apply.

[^0]:    Dependence of the switching frequency $z$ on According to AC-3 (AC/DC

