SIEMENS

Data sheet 3RT1264-6AR36



vacuum contactor AC-3e/AC-3 225 A, 110 kW / 400 V, 3-pole, Uc: 440-480 V AC(50-60 Hz) / DC drive: conventional auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

| product brand name | SIRIUS |
|---|----------------------------|
| product designation | Vacuum contactor |
| product type designation | 3RT12 |
| General technical data | |
| size of contactor | S10 |
| product extension | |
| function module for communication | No |
| auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| at AC in hot operating state | 27 W |
| at AC in hot operating state per pole | 9 W |
| without load current share typical | 8.2 W |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 1 000 V |
| of auxiliary circuit with degree of pollution 3 rated value | 500 V |
| surge voltage resistance | |
| of main circuit rated value | 8 kV |
| of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 | 690 V |
| shock resistance at rectangular impulse | |
| • at AC | 8,5g / 5 ms, 4,2g / 10 ms |
| • at DC | 8,5g / 5 ms, 4,2g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 13,4g / 5 ms, 6,5g / 10 ms |
| • at DC | 13,4g / 5 ms, 6,5g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 10 000 000 |
| of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 |
| of the contactor with added auxiliary switch block typical | 10 000 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 05/01/2012 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| during operation | -25 +60 °C |
| during storage | -55 +80 °C |
| relative humidity minimum | 10 % |
| relative humidity at 55 °C according to IEC 60068-2-30 | 95 % |

maximum

| lain circuit | |
|--|----------------|
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |
| operating voltage | |
| at AC-3 rated value maximum | 1 000 V |
| at AC-3e rated value maximum | 1 000 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated value | 330 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 330 A |
| — up to 690 V at ambient temperature 60 °C rated value | 300 A |
| — up to 1000 V at ambient temperature 40 °C rated value | 330 A |
| — up to 1000 V at ambient temperature 60 °C rated value | 300 A |
| • at AC-3 | 225 A |
| — at 400 V rated value | 225 A 225 A |
| — at 500 V rated value | 225 A 225 A |
| — at 690 V rated value— at 1000 V rated value | 225 A 225 A |
| at AC-3e | 220 N |
| — at 400 V rated value | 225 A |
| — at 500 V rated value | 225 A 225 A |
| — at 690 V rated value | 225 A |
| — at 1000 V rated value | 225 A |
| at AC-4 at 400 V rated value | 195 A |
| • at AC-6a | 10071 |
| up to 230 V for current peak value n=20 rated value | 225 A |
| up to 400 V for current peak value n=20 rated value | 225 A |
| — up to 500 V for current peak value n=20 rated value | 225 A |
| — up to 690 V for current peak value n=20 rated value | 225 A |
| up to 1000 V for current peak value n=20 rated value at AC-6a | 225 A |
| up to 230 V for current peak value n=30 rated value | 209 A |
| up to 400 V for current peak value n=30 rated value | 209 A |
| up to 500 V for current peak value n=30 rated value | 209 A |
| — up to 690 V for current peak value n=30 rated value | 209 A |
| — up to 1000 V for current peak value n=30 rated value | 209 A |
| minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating | 185 mm² |
| cycles at AC-4 | |
| at 400 V rated value | 97 A |
| • at 690 V rated value | 97 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 55 kW |
| — at 400 V rated value | 110 kW |
| — at 500 V rated value | 160 kW |
| — at 690 V rated value | 200 kW |
| — at 1000 V rated value● at AC-3e | 315 kW |
| — at 230 V rated value | 55 kW |
| | 110 kW |

| at 500 V rated value at 1000 V rated value coparating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 600 V rated value razed rated value up to 500 V for current peak value razed rated value up to 600 V for current peak value razed rated value up to 1000 V for current peak value razed rated value up to 500 V for current peak value razed rated value up to 500 V for current peak value razed rated value up to 500 V for current peak value razed rated value up to 500 V for current peak value razed rated value up to 500 V for current peak value razed rated value up to 1000 V for current peak value razed rated value up to 1000 V for current peak value razed rated value up to 1000 V for current peak value razed rated value up to 1000 V for current peak value razed rated value up to 1000 V for current peak value razed rated value up to 1000 V for current peak value razed rated value up to 1000 V for current peak value razed rated value up to 1000 V for current peak value razed value up to 1000 V for current peak value razed rated value up to 1000 V for current peak value razed rated value up to 1000 V for current peak value razed rated value up to 1000 V for current peak value razed value up to 1000 V for current peak value razed value up to 1000 V for current peak value razed value up to 1000 V for current peak value razed value up to 1000 V for current peak value razed value up to 1000 V for current peak value razed value | | |
|--|--|---|
| | — at 500 V rated value | 160 kW |
| operating power for approx. 200000 operating cycles at AC-4 | — at 690 V rated value | 200 kW |
| ### all 400 Vrated value ### all 400 Vro current peak value n=20 rated value ### all 400 Vro current peak value n=20 rated value ### all 400 Vro current peak value n=20 rated value ### all 400 Vro current peak value n=20 rated value ### all 400 Vro current peak value n=20 rated value ### all 400 Vro current peak value n=30 rated value ### all 400 Vro current pe | — at 1000 V rated value | 315 kW |
| ### all 400 Vrated value ### all 400 Vro current peak value n=20 rated value ### all 400 Vro current peak value n=20 rated value ### all 400 Vro current peak value n=20 rated value ### all 400 Vro current peak value n=20 rated value ### all 400 Vro current peak value n=20 rated value ### all 400 Vro current peak value n=30 rated value ### all 400 Vro current pe | operating power for approx. 200000 operating cycles | |
| ### ### ### ### ### ### ### ### ### ## | | |
| operating apparent power at AC-5a | at 400 V rated value | 55 kW |
| | at 690 V rated value | 94 kW |
| | operating apparent power at AC-6a | |
| | | 90 000 kVA |
| | · | |
| | | |
| | | |
| value operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value no-load switching frequency • at AC • at DC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 max | | |
| operating apparent power at AC-5a | | 390 000 VA |
| • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value no-load switching frequency • at AC • at DC 2 000 1/h • at DC 2 000 1/h • at C-2 maximum 800 1/h • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 ma | | |
| | | 00 000 1/A |
| ■ up to 580 V for current peak value n=30 rated value ■ up to 1800 V for current peak value n=30 rated value ■ up to 1800 V for current peak value n=30 rated value 10 1000 V for current peak value n=30 rated value 10 1000 V for current peak value n=30 rated value 10 2000 VA 1 | | |
| • up to 690 V for current peak value n=30 rated value value up to 1000 V for current peak value n=30 rated value value n=40 value n=40 rate v | · | |
| • up to 1000 V for current peak value n=30 rated value no-load switching frequency • at AC • at DC operating frequency • at AC-1 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • 250 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz • at 50 Hz • at 50 Hz • at 60 Hz • at 6 | · | |
| value no-load switching frequency • at AC • at DC • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at SO Hz rated value • at SO Hz value • at SO Hz • at | up to 690 V for current peak value n=30 rated value | 250 000 VA |
| no-load switching frequency | | 360 000 VA |
| at AC at DC at DC at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at BO Hz at 60 Hz rated value at SO Hz at BO Hz | | |
| • at DC operating frequency • at AC-1 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum | | |
| operating frequency | • at AC | 2 000 1/h |
| at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum | • at DC | 2 000 1/h |
| at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum | operating frequency | |
| | • at AC-1 maximum | 800 1/h |
| at AC-3e maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz at 50 Hz at 60 Hz a | • at AC-2 maximum | 300 1/h |
| at AC-3e maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz at 50 Hz at 60 Hz a | at AC-3 maximum | 750 1/h |
| e at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC e at 50 Hz rated value | | 750 1/h |
| type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 440 480 V at 80 Nz rated value 440 480 V control supply voltage at DC rated value 440 480 V control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz ot 60 Hz at 60 Hz ot | | |
| type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value 440 480 V arated value operating range factor control supply voltage rated value of magnet coil at DC initial value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 60 H | | 200 /// |
| control supply voltage at AC at 50 Hz rated value at 60 Hz rated value at 60 Hz rated value orated value orated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz ot 60 Hz ot 60 Hz ot 60 Hz inductive power factor with closing power of the coil at 60 Hz at 50 Hz at 60 Hz ot 60 Hz ot 60 Hz ot 60 Hz at 50 Hz at 50 Hz at 50 Hz at 50 Hz ot 60 Hz ot 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz ot 60 Hz ot 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz ot 6 | | AOIDO |
| at 50 Hz rated value at 60 Hz rated value at 60 Hz rated value orated value orated value operating range factor control supply voltage rated value of magnet coil at DC initial value operating range factor control supply voltage rated value of magnet coil at DC initial value operating range factor control supply voltage rated value of magnet coil at AC o at 50 Hz o at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC o at 50 Hz o at 60 Hz inductive power factor with closing power of the coil o at 50 Hz o at 60 Hz o 9 o 9 o 9 o 9 o 9 o 9 o 9 o | | AC/DC |
| at 60 Hz rated value control supply voltage at DC in rated value operating range factor control supply voltage rated value of magnet coil at DC initial value operating range factor control supply voltage rated value of magnet coil at AC initial value operating range factor control supply voltage rated value of magnet coil at AC int 50 Hz out 60 Hz out 61 VA inductive power factor with closing power of the coil out 60 Hz out 60 Hz out 60 Hz out 60 Hz out 61 VA out 60 Hz out 61 VA out 61 | | |
| control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 50 Hz • at 60 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz • at | | 440 400 // |
| operating range factor control supply voltage rated value of magnet coil at DC o initial value operating range factor control supply voltage rated value of magnet coil at AC o at 50 Hz o at 60 Hz o at 50 Hz o at 50 Hz o at 50 Hz o at 50 Hz o at 60 Hz o at 50 Hz o at 60 Hz | at 50 Hz rated value | |
| operating range factor control supply voltage rated value of magnet coil at DC • initial value • (uIII-scale value • (uIII-scale value • (uIII-scale value) • at 50 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz coil • at 50 Hz • at 60 | at 50 Hz rated valueat 60 Hz rated value | |
| value of magnet coil at DC • initial value • full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with he holding power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC | 440 480 V |
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| • full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC 30 95 ms 1.1 1.1 0.8 1.1 0.8 1.1 0.8 1.1 0.9 0.9 0.9 0.9 0.9 0.9 0.9 | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated | 440 480 V |
| operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz at 60 Hz output • at 60 Hz output • at 50 Hz • at 60 Hz at 60 Hz output • at 50 Hz • at 60 Hz output • at 50 Hz • at 60 Hz output • at 50 Hz • at 60 Hz output • at 50 Hz • at 60 Hz output • at 50 Hz • at 60 Hz output • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz output • at 50 Hz • at 60 Hz output • at 50 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz output • at 50 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz output | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC | 440 480 V 440 480 V |
| value of magnet coil at AC at 50 Hz at 60 Hz 0.8 1.1 design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz 590 VA at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz 0.9 apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 6.1 VA at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.9 coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz coil at 50 Hz by 0.9 closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at AC at DC 30 95 ms at DC 30 95 ms | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value | 440 480 V 440 480 V 0.8 |
| at 50 Hz at 60 Hz 0.8 1.1 design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 50 Hz at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.9 at 60 Hz 0.9 closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at AC at DC 30 95 ms | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value | 440 480 V 440 480 V 0.8 |
| at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 60 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz o.9 closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at AC at DC 30 95 ms at DC | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated | 440 480 V 440 480 V 0.8 |
| design of the surge suppressor apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC 30 95 ms • at DC | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC | 440 480 V 440 480 V 0.8 1.1 |
| apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC 30 95 ms • at DC | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz | 440 480 V 440 480 V 0.8 1.1 |
| at 50 Hz at 60 Hz 590 VA inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC 30 95 ms at DC < | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 |
| inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 50 Hz at 50 Hz at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz at 50 Hz at 60 Hz at 60 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 |
| inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz coil • at 50 Hz • at 60 Hz Closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC • at DC 0.9 30 95 ms 30 95 ms | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 |
| at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz at 60 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC 30 95 ms at DC at DC | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor |
| at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz at 60 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC 30 95 ms at DC at DC | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA |
| at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 50 Hz at 50 Hz at 60 Hz by at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC tosing delay at AC at DC at DC | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA |
| apparent holding power of magnet coil at AC • at 50 Hz • at 60 Hz • at 60 Hz inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC 30 95 ms • at DC | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA |
| at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 50 Hz at 60 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC tosing delay at AC at DC 30 95 ms at DC | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 |
| at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz at 60 Hz 0.9 closing power of magnet coil at DC holding power of magnet coil at DC tosing delay at AC at DC 30 95 ms at DC | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 |
| inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC 30 95 ms | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 590 VA |
| e at 50 Hz ■ at 60 Hz Closing power of magnet coil at DC holding power of magnet coil at DC closing delay ■ at AC ■ at DC at DC 0.9 700 W 8.2 W Closing delay ■ at AC ■ at DC 30 95 ms | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA |
| • at 50 Hz • at 60 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC at DC 0.9 700 W 8.2 W 20 8.2 W 30 95 ms • at DC | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA |
| at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC 8.2 W closing delay at AC at DC 30 95 ms at DC 30 95 ms | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz inductive power factor with the holding power of the | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA |
| closing power of magnet coil at DC holding power of magnet coil at DC closing delay | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA |
| holding power of magnet coil at DC closing delay • at AC • at DC 30 95 ms • at DC | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz at 50 Hz at 50 Hz | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA |
| closing delay ● at AC 30 95 ms ● at DC 30 95 ms | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value perating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA 0.9 0.9 |
| at AC at DC 30 95 ms 30 95 ms | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value perating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz at 60 Hz at 60 Hz ont 50 Hz ont 60 Hz ont 50 Hz ont 60 Hz ont 50 Hz ont 60 Hz < | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA 0.9 0.9 700 W |
| • at DC 30 95 ms | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value perating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA 0.9 0.9 700 W |
| | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value perating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA 0.9 0.9 700 W 8.2 W |
| opening delay | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA 0.9 0.9 700 W 8.2 W 30 95 ms |
| | at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC | 440 480 V 440 480 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA 0.9 0.9 700 W 8.2 W 30 95 ms |

| | 40 00 | |
|---|---|--|
| • at AC | 40 80 ms | |
| at DC arcing time | 40 80 ms 10 15 ms | |
| control version of the switch operating mechanism | Standard A1 - A2 | |
| Auxiliary circuit | Charles (1) / 12 | |
| number of NC contacts for auxiliary contacts | 2 | |
| instantaneous contact | | |
| number of NO contacts for auxiliary contacts instantaneous contact | 2 | |
| operational current at AC-12 maximum | 10 A | |
| operational current at AC-15 | | |
| at 230 V rated value | 6 A | |
| at 400 V rated value at 500 V rated value | 3 A 2 A | |
| at 500 V rated valueat 690 V rated value | 1 A | |
| operational current at DC-12 | T A | |
| • at 24 V rated value | 10 A | |
| at 48 V rated value | 6 A | |
| at 60 V rated value | 6 A | |
| at 100 V rated value at 110 V rated value | 3 A | |
| at 110 V rated value at 125 V rated value | 2 A | |
| at 220 V rated value | 1 A | |
| at 600 V rated value | 0.15 A | |
| operational current at DC-13 | | |
| at 24 V rated value | 10 A | |
| at 48 V rated value | 2 A | |
| at 60 V rated value | 2 A | |
| at 110 V rated value | 1 A | |
| at 125 V rated value | 0.9 A | |
| at 220 V rated value | 0.3 A | |
| at 600 V rated value | 0.1 A | |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) | |
| UL/CSA ratings | | |
| full-load current (FLA) for 3-phase AC motor | | |
| at 480 V rated value | 180 A | |
| at 600 V rated value | 192 A | |
| yielded mechanical performance [hp] | | |
| • for 3-phase AC motor | | |
| — at 200/208 V rated value | 60 hp | |
| — at 220/230 V rated value | 75 hp | |
| — at 460/480 V rated value | 150 hp | |
| — at 575/600 V rated value | 200 hp | |
| contact rating of auxiliary contacts according to UL | A600 / Q600 | |
| Short-circuit protection | | |
| design of the fuse link | | |
| for short-circuit protection of the main circuit with type of coordination 1 required. | aC: 500 A (600 V 100 kA) | |
| — with type of coordination 1 required— with type of assignment 2 required | gG: 500 A (690 V, 100 kA) | |
| — with type of assignment 2 required | gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 V, 50 kA) | |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) | |
| Installation/ mounting/ dimensions | | |
| mounting position | +/-22,5° rotation possible on vertical mounting surface; can be tilted | |
| | | |
| g poolis | forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface | |
| fastening method | forward and backward by +/- 22.5° on vertical mounting surface; | |
| | forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface | |
| fastening method • side-by-side mounting height | forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing | |
| fastening method • side-by-side mounting | forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing Yes 210 mm 145 mm | |
| fastening method • side-by-side mounting height width depth | forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing Yes 210 mm | |
| fastening method • side-by-side mounting height width depth required spacing | forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing Yes 210 mm 145 mm | |
| fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting | forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing Yes 210 mm 145 mm 206 mm | |
| fastening method • side-by-side mounting height width depth required spacing | forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface screw fixing Yes 210 mm 145 mm | |

| — downwards | 10 mm |
|--------------------|-------|
| — at the side | 0 mm |
| for grounded parts | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — at the side | 10 mm |
| — downwards | 10 mm |
| for live parts | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 10 mm |
| | |

type of electrical connection

- for main current circuit • for auxiliary and control circuit
- at contactor for auxiliary contacts
- of magnet coil

width of connection bar thickness of connection bar

diameter of holes

number of holes

connectable conductor cross-section for main contacts

stranded

connectable conductor cross-section for auxiliary contacts

- · solid or stranded
 - finely stranded with core end processing

type of connectable conductor cross-sections

- for auxiliary contacts
 - solid
 - solid or stranded
 - finely stranded with core end processing
- at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

• for auxiliary contacts

Connection bar

screw-type terminals

Screw-type terminals

Screw-type terminals

25 mm

6 mm

11 mm

1

70 ... 240 mm²

0.5 ... 4 mm²

0.5 ... 2.5 mm²

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 1x 12

18 ... 14

Safety related data

product function

- mirror contact according to IEC 60947-4-1
- positively driven operation according to IEC 60947-

T1 value for proof test interval or service life according to

IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

• safety-related switching OFF

Yes

No

20 a

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with box terminal/cover

Yes

Certificates/ approvals

General Product Approval



Confirmation





KC



| Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates |
|---------------------------------------|---------------------------|-------------------|
|---------------------------------------|---------------------------|-------------------|



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping

other











Confirmation

other

Railway

Confirmation

Miscellaneous

<u>ate</u>

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1264-6AR36

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1264-6AR36}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT1264-6AR36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

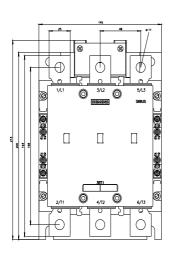
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1264-6AR36&lang=en

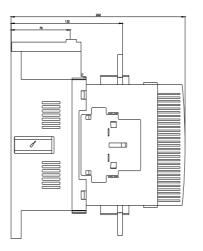
Characteristic: Tripping characteristics, I2t, Let-through current

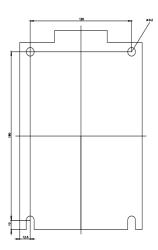
https://support.industry.siemens.com/cs/ww/en/ps/3RT1264-6AR36/char

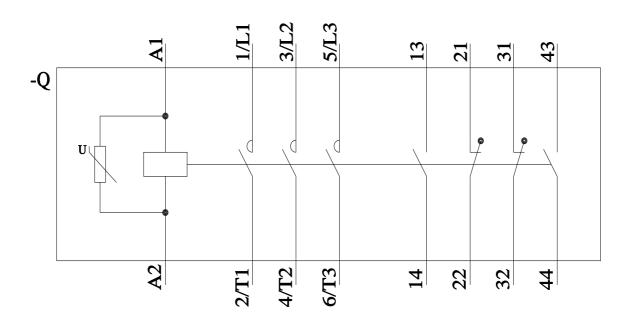
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1264-6AR36&objecttype=14&gridview=view1









last modified: 11/12/2022 ☑