## SIEMENS

## Data sheet

## 3RT2026-1AV04



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 400 V AC, 50 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S0, removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	5.7 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1.9 W
<ul> <li>without load current share typical</li> </ul>	9.8 W
insulation voltage	
of main circuit with degree of pollution 3 rated value	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
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 maximum	95 %
Main circuit	
number of poles for main current circuit	3

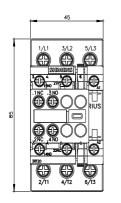
number of NO contacts for main contacts     3       operating voltage     680 V       • at AC-3 rated value maximum     690 V       operational current     690 V       • at AC-1 at 400 V at ambient temperature 40 °C rated value     40 A       • at AC-1	
• at AC-3 rated value maximum690 V• at AC-3e rated value maximum690 Voperational current690 V• at AC-1 at 400 V at ambient temperature 40 °C rated value40 A• at AC-140 A- up to 690 V at ambient temperature 40 °C rated value40 A- up to 690 V at ambient temperature 60 °C rated value35 A- up to 690 V at ambient temperature 60 °C rated value35 A- at AC-3 at 400 V rated value25 A- at 600 V rated value13 A• at AC-3e at 600 V rated value13 A• at AC-3e at 600 V rated value13 A• at AC-3e at 600 V rated value25 A- at 600 V rated value13 A• at AC-3e at 600 V rated value25 A- at 600 V rated value12 A- at 600 V rated value25 A- at 600 V rated value25 A- at 600 V rated value25 A- at 400 V rated value25 A- at 600 V rated value20 A- up to 230 V for current peak value n=20 rated value20.2 A- up to 690 V for current peak value n=20 rated value20.2 A- up to 690 V for current peak value n=20 rated value20.2 A- up to 690 V for current peak value n=20 rated value20.2 A- up to 690 V for current peak value n=20 rated value20.2 A- up to 690 V for current peak value n=30 rated value13.5 A- up to 690 V for current peak value n=30 rated value13.5 A <td></td>	
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<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1 <ul> <li>up to 690 V at ambient temperature 40 °C rated</li> <li>up to 690 V at ambient temperature 40 °C rated value</li> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> <li>at AC-3</li> <li>at AC-3e</li> <li>at AC-3e</li> <li>at AC-3e</li> <li>at AC-3e</li> <li>at AC-3e</li> <li>at AC-4a t400 V rated value</li> <li>at AC-5a</li> <li>at AC-5a</li> <li>at AC-5a up to 690 V rated value</li> <li>at AC-5a</li> <li>at AC-5a</li></ul></li></ul>	
value • at AC-1 - up to 690 V at ambient temperature 40 °C rated value - up to 690 V at ambient temperature 60 °C rated value • at AC-3 - at 400 V rated value • at AC-3 - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 690 V rated value • at AC-3e - at 400 V rated value • at AC-3e - at 690 V rated value 13 A • at AC-4 at 400 V rated value 15 5 A • at AC-5a up to 690 V rated value • at AC-5a up to 690 V rated value • at AC-5a • up to 230 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=20 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 400 V for current peak	
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<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>up to 690 V at ambient temperature 60 °C rated value</li> <li>at AC-3</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 600 V rated value</li> <li>35 A</li> <li>at 600 V rated value</li> <li>35 A</li> <li>at AC-3a</li> <li>at 600 V rated value</li> <li>35 A</li> <li>at AC-4 at 400 V rated value</li> <li>35 A</li> <li>at AC-5a up to 690 V rated value</li> <li>35 A</li> <li>at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>20.2 A</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>20.2 A</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>20.2 A</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>20.2 A</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>20.2 A</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>20.2 A</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>13.5 A</li> </ul>	
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— up to 400 V for current peak value n=30 rated value 13.5 A	
— up to 500 V for current peak value n=30 rated value 13.5 A	
— up to 690 V for current peak value n=30 rated value 13 A	
minimum cross-section in main circuit at maximum AC-1 rated value 10 mm <sup>2</sup>	
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value 9 A	
• at 690 V rated value 9 A	
operational current	
● at 1 current path at DC-1	
— at 24 V rated value 35 A	
- at 60 V rated value 20 A	
- at 110 V rated value 4.5 A	
- at 220 V rated value 1 A	
- at 440 V rated value 0.4 A	
- at 600 V rated value 0.25 A	
• with 2 current paths in series at DC-1	
- at 24 V rated value 35 A	
- at 60 V rated value 35 A	
— at 110 V rated value     35 A       — at 220 V rated value     5 A	
- at 440 V rated value 1 A - at 600 V rated value 0.8 A	
• with 3 current paths in series at DC-1	
- at 24 V rated value 35 A	
- at 60 V rated value 35 A	
- at 100 V rated value 35 A	
- at 220 V rated value 35 A	
- at 440 V rated value 2.9 A	
- at 600 V rated value 1.4 A	
• at 1 current path at DC-3 at DC-5	

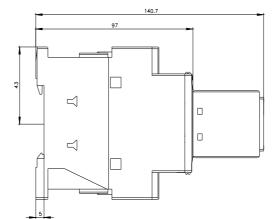
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-2 at 400 V rated value	11 kW
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC-	
4	4 4 1-141
<ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul>	4.4 kW
	7.7 kW
operating apparent power at AC-6a	8 kVA
• up to 230 V for current peak value n=20 rated value	0 KVA 13.9 kVA
• up to 400 V for current peak value n=20 rated value	17.4 kVA
• up to 500 V for current peak value n=20 rated value	15.4 kVA
up to 690 V for current peak value n=20 rated value	
operating apparent power at AC-6a	5.3 kVA
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	9.3 kVA
<ul> <li>up to 400 v for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	9.5 KVA 11.6 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	15.5 kVA
short-time withstand current in cold operating state up to	
40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	375 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	300 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	144 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	118 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
operating frequency     o at AC-1 maximum	1 000 1/h
	1 000 1/h 750 1/h
• at AC-1 maximum	
<ul><li>at AC-1 maximum</li><li>at AC-2 maximum</li></ul>	750 1/h
<ul> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> </ul>	750 1/h 750 1/h
<ul> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-3e maximum</li> </ul>	750 1/h 750 1/h 750 1/h

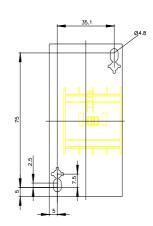
number of NC contacts for auxiliary contacts instantaneous contact         2           contacts contact         2           operational current at AC-12 maximum         10 A           operational current at AC-15         6 A           • at 230 V rated value         6 A           • at 600 V rated value         3 A           • at 600 V rated value         10 A           operational current at AC-15         7           • at 600 V rated value         2 A           • at 600 V rated value         10 A           operational current at AC-12         7           • at 600 V rated value         10 A           • at 600 V rated value         6 A           • at 600 V rated value         6 A           • at 600 V rated value         2 A           • at 600 V rated value         0.9 A           • at 100 V rated value         0.1 A           contact reliability of auxiliary		-
• et 60 14 z not value400 Vmagnet for control supply voltage rate value0• at 50 14 z not value0• at 50 14 z not value7 VAindective power of magnet coll at AC0• at 50 14 z not value0• at 50 14 z not value0	type of voltage of the control supply voltage	AC
operation angle factor control supply voltage rated value of mignet coil at AC.         08. 1.1           operate factor with closing power of magnet coil at AC.         77 VA           operate factor with closing power of the coil of coil coil coil at AC.         78 VA           apparent factor with closing power of the coil of coil coil coil coil coil coil coil coil	control supply voltage at AC	
mignet coli at AC081.1episer tiplek-up power of magnet coli at AC7.7 Ae at 50 h20.82e at 50 h20.81e at 50 h2 <t< td=""><td>• at 50 Hz rated value</td><td>400 V</td></t<>	• at 50 Hz rated value	400 V
appert bick-up power of magnet coil at AC         77 VA           • at 50 Hz         77 VA           • at 50 Hz         0.82           • at 50 Hz         0.82           • at 50 Hz         0.82 VA           • at 60 VE         0.81 VA           • at 60 VE         0.10 mB           • at 60 VE         0.10 mB           • at 60 VE         0.10 mB           • at 60 VE         0.10 ME           • at 60 VE         0.10 ME           • at 60 VE         0.10 ME           • at 60 VE         0.40 VE           • at 60 VE         0.40 VE <tr< td=""><td></td><td></td></tr<>		
inductive power factor with closing power of the coll         0.82           apparent holding power of magnet coll at AC         0.82           apparent holding power of magnet coll at AC         0.82           at 50 h2         0.82 A           inductive power factor with the holding power of the coll         0.82           at 50 h2         0.82 A           closing dolay         0.25           at AC         a40 ms           opening dolay         a40 ms           at AC         a40 ms           control version of the sevich operating machanism         Standard A1 - A2           Availary dorating         1010 ms           control version of the sevich operating machanism         2           momber of NC contacts for auxiliary contacts instantaneous         2           operational current at AC-12         0A           operational current at AC-12         10A           operational current at AC-12         2           eit 400 vrade value         0A           at 400 vrade value         0A<	• at 50 Hz	0.8 1.1
• # 150 Hz0.82apparent holding power of magnet coll at AC9.8 VAinductive power factor with the holding power of the coll0.25closing delay0.25• # AC0.4 16 ms• # AC0.4 16 msarcing time10 10 mscontrol version of the switch operating mechanism20Xouthany controlsstandard At - A2Availant of Controls for auxiliary controls instantaneous2control version of the switch operating mechanism2Standard At - A2Availant of Controls for auxiliary controls instantaneouscontrol version of the switch operating mechanism2Standard At - A2Availant of Controls for auxiliary controls instantaneouscontrol version of the switch operating mechanism2operational current at AC-157• # 400 V tried value0 A• # 400 V rated value0 A• # 100 V rated value0 A• # 100 V r		77 VA
• # 150 Hz0.82apparent holding power of magnet coll at AC9.8 VAinductive power factor with the holding power of the coll0.25closing delay0.25• # AC0.4 16 ms• # AC0.4 16 msarcing time10 10 mscontrol version of the switch operating mechanism20Xouthany controlsstandard At - A2Availant of Controls for auxiliary controls instantaneous2control version of the switch operating mechanism2Standard At - A2Availant of Controls for auxiliary controls instantaneouscontrol version of the switch operating mechanism2Standard At - A2Availant of Controls for auxiliary controls instantaneouscontrol version of the switch operating mechanism2operational current at AC-157• # 400 V tried value0 A• # 400 V rated value0 A• # 100 V rated value0 A• # 100 V r	inductive power factor with closing power of the coil	
approver of hoding power of magnet cell at AC         98 VA           • at 50 Hz         98 VA           • at 50 Hz         025           • at 60 Hz         0.40 ms           • at AC         440 ms           • at AC         440 ms           • at AC         440 ms           • at AC         416 ms           • at 30 Vratich operating mechanism         2           • at 30 Vratich operating mechanism         2           • at 30 Vratich operating contrads for auxiliay contads instantaneous         3A           • at 30 Vratich value         3A           •		0.82
under the holding power of the coilUinductive power factor with the holding power of the coil0.55closing delay0.40 nmsi al AC0.40 nmsopening delay1010 nmsi al AC1010 nmsarcing time1010 nmscontrol version of the switch operating mochanismStandard A1 - A2Availary of controls for auxiliary contacts instantaneous2control version of the switch operating mochanism2generational current at AC-155i i i dol V ridei value6 Ai i dol V ridei value3 Ai e dol V ridei value6 Ai e dol V ridei value3 Ai e d	apparent holding power of magnet coil at AC	
• #10 hz0.25closing dolay840 ms• #.AC840 ms• #.AC940 ms• #.AC1010 mscontrol version of the switch operating mechanism1010 mscontrol version of the switch operating mechanism2010 msrumber of NC contacts for auxiliary contacts instantaneous on the switch operating mechanism2operational current at AC-15-e al 230 V rated value6.A• al 230 V rated value3.A• al 230 V rated value3.A• al 240 V rated value3.A• al 240 V rated value3.A• al 240 V rated value6.A• al 240 V rated value3.A• al 240 V rated value6.A• al 240 V		9.8 VA
• #10 hz0.25closing dolay840 ms• #.AC840 ms• #.AC940 ms• #.AC1010 mscontrol version of the switch operating mechanism1010 mscontrol version of the switch operating mechanism2010 msrumber of NC contacts for auxiliary contacts instantaneous on the switch operating mechanism2operational current at AC-15-e al 230 V rated value6.A• al 230 V rated value3.A• al 230 V rated value3.A• al 240 V rated value3.A• al 240 V rated value3.A• al 240 V rated value6.A• al 240 V rated value3.A• al 240 V rated value6.A• al 240 V	inductive power factor with the holding power of the coil	
• ai AC840 msopening delay416 ms• arcing the1010 mscontrol version of the switch operating mechanismStandard A1 A2Autisty detail2number of NC contacts for auxiliary contacts instantaneous contact2operational current at AC-12 maximum2operational current at AC-12 maximum6 A• et 230 Vrited value6 A• et 230 Vrited value10A• et 230 Vrited value6 A• et 230 Vrited value10A• et 230 Vrited value6 A• et 230 Vrited value10A• et 230 Vrited value10A• et 230 Vrited value10A• et 230 Vrited value6 A• et 230 Vrited value10A• et 230 Vrited value0A• et 230 Vrited value10A• et 230 Vrited value0A• et 240 Vrited value<	• at 50 Hz	0.25
opening delay         4 16 ms           exitAC         4 16 ms           control varision of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         Standard A1 - A2           number of NC contacts for auxiliary contacts instantaneous contact         2           contact         0           contact         10 A           operational current at AC-12 maximum         10 A           operational current at AC-15         ************************************	closing delay	
• ai AC         4 16 ms           arcing time         10 10 ms           control vorsion of the switch operating mechanism         Sindard A1 - A2           Auxiliary circuit         2           number of NC contacts for auxiliary contacts instantaneous contact         2           operational current at AC-12 maximum         10 A           operational current at AC-12 maximum         10 A           operational current at AC-12 maximum         6 A           • at 230 V rated value         6 A           • at 230 V rated value         2 A           • at 630 V rated value         10 A           operational current at DC-12         -           • at 630 V rated value         6 A           • at 630 V rated value         10 A           operational current at DC-12         -           • at 630 V rated value         10 A           • at 630 V rated value         6 A           • at 600 V rated value         0.5 A           • at 600 V rated value         6 A           • at 600 V rated value         0.5 A	• at AC	8 40 ms
arcing time         10 10 ms           control version of the switch operating mechanism         Standard A1 - A2           Availary circuit         2           number of NC contacts for auxiliary contacts instantaneous contact         2           operational current at AC-12 maximum         10 A           operational current at AC-15         6           • at 230 V rated value         3 A           • at 300 V rated value         3 A           • at 600 V rated value         3 A           • at 600 V rated value         10 A           operational current at DC-12         -           • at 600 V rated value         6 A           • at 600 V rated value         6 A           • at 600 V rated value         6 A           • at 600 V rated value         0 A           • at 60	opening delay	
Control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         Image of NC contracts for auxiliary contracts instantaneous contract.         2           contract for auxiliary contracts instantaneous contract.         2           contract for auxiliary contracts instantaneous contract.         10 A           operational current at AC-17         6A           eit 230 V rated value         6A           eit 600 V rated value         2A           eit 600 V rated value         10 A           operational current at AC-17         Image of AC           eit 600 V rated value         10 A           eit 600 V rated value         6A           eit 600 V rated value         6A           eit 600 V rated value         6A           eit 600 V rated value         0A           eit 600 V rated value         0.16A	• at AC	4 16 ms
Auxiliary circuit       2         number of NC contacts for auxiliary contacts instantaneous contact       2         operational current at AC-12 maximum       10 A         operational current at DC-12       11 A         operational current at DC-12       10 A         operational current at DC-12       10 A         operational current at DC-13       6 A         oft 120 V rated value       10 A         operational current at DC-13       14 A         operational current at DC-13       0.15 A         operational current at DC-13       0.15 A         operational current at DC-13       0.4 A         oft 20 V rated value       0.4 A         oft 21 V rated value       0.4 A         oft 22 V rated value       0.9 A         oft 20 V rated value       0	arcing time	10 10 ms
number of NC contacts for auxiliary contacts instantaneous contact         2           contacts contact         2           operational current at AC-12 maximum         10 A           operational current at AC-15         6 A           • at 230 V rated value         6 A           • at 600 V rated value         3 A           • at 600 V rated value         10 A           operational current at AC-15         7           • at 600 V rated value         2 A           • at 600 V rated value         10 A           operational current at AC-12         7           • at 600 V rated value         10 A           • at 600 V rated value         6 A           • at 600 V rated value         6 A           • at 600 V rated value         2 A           • at 600 V rated value         0.9 A           • at 100 V rated value         0.1 A           contact reliability of auxiliary	control version of the switch operating mechanism	Standard A1 - A2
contact         independence on the second seco	Auxiliary circuit	
contact         understant AC-12 maximum         ID A           operational current at AC-12 maximum         ID A           operational current at AC-15         -           • at 230 V rated value         6 A           • at 400 V rated value         2 A           • at 600 V rated value         1 A           operational current at DC-12         -           • at 80 V rated value         6 A           • at 80 V rated value         2 A           • at 80 V rated value         2 A           • at 20 V rated value         2 A           • at 200 V rated value         6 A           • at 200 V rated value         2 A           • at 200 V rated value         2 A           • at 80 V rated value         2 A           • at 80 V rated value         2 A           • at 80 V rated value         0 A           • at 80 V rated value         0 A           • at 80 V rated value         0 A		2
operational current at AC-15         • at 230 V rated value         • at 230 V rated value         • at 400 V rated value         • at 600 V rated value         • at 80 V rated value         • at 20 V rated value         • at 24 V rated value         • at 24 V rated value         • at 25 V rated value         • at 100 V rated value         • at 100 V rated value         • at 20 V rated value         • at 20 V rated value         • at 20 V rated value         • at 600 V rated value         • at 600 V rated value		2
• at 230 V rated value         6 A           • at 400 V rated value         3 A           • at 500 V rated value         2 A           • at 500 V rated value         1 A           operational current at DC-12         -           • at 24 V rated value         6 A           • at 60 V rated value         6 A           • at 25 V rated value         6 A           • at 20 V rated value         0.15 A           operational current at DC-13         -           • at 60 V rated value         2 A           • at 60 V rated value         2 A           • at 60 V rated value         2 A           • at 60 V rated value         0.9 A           • at 60 V rated value         2.1 A           • at 60 V rated value         2.1 A           • at 600 V rate	operational current at AC-12 maximum	10 A
• at 400 V rated value       3 A         • at 500 V rated value       2 A         • at 600 V rated value       1 A         operational current at DC-12       -         • at 24 V rated value       6 A         • at 48 V rated value       6 A         • at 60 V rated value       6 A         • at 60 V rated value       3 A         • at 10 V rated value       3 A         • at 10 V rated value       3 A         • at 10 V rated value       3 A         • at 20 V rated value       3 A         • at 600 V rated value       3 A         • at 600 V rated value       4 A         • at 600 V rated value       2 A         • at 60 V rated value       3 A         • at 60 V rated value       3 A         • at 10 V rated value       0.9 A         • at 20 V rated value       0.1 A         • at 600 V rated value       0.1 A         • at 600 V rated value       21	operational current at AC-15	
• at 500 V rated value2 A• at 690 V rated value1Aoperational current at DC-12-• at 24 V rated value0A• at 48 V rated value6 A• at 60 V rated value6 A• at 10 V rated value3 A• at 110 V rated value2 A• at 220 V rated value1 A• at 220 V rated value0.15 A• at 60 V rated value2 A• at 20 V rated value6 A• at 20 V rated value2 A• at 20 V rated value0.9 A• at 24 V rated value2 A• at 24 V rated value3 A• at 60 V rated value0.9 A• at 60 V rated value0.9 A• at 10 V rated value0.3 A• at 600 V rated value0.3 A• at 600 V rated value21 A• at 600 V rated value21 A• at 600 V rated value22 A• at 600 V rated value21 A• at 600 V rated value21 A• at 600 V rated value3 hp• at 200 V rated value3 hp• at 200 V rated value3 hp• for 3-phase AC motor21 A• at 200 V rated value3 hp• for 3-phase AC motor1• at 200208 V rated value3 hp• for 3-phase AC motor5 hp• at 200208 V rated value5 hp	• at 230 V rated value	6 A
• at 690 V rated value         1 A           operational current at DC-12	• at 400 V rated value	3 A
operational current at DC-12Image: constant of the second sec	• at 500 V rated value	2 A
• at 24 V rated value         10 A           • at 48 V rated value         6 A           • at 60 V rated value         6 A           • at 10 V rated value         3 A           • at 110 V rated value         2 A           • at 220 V rated value         0.15 A           • at 220 V rated value         6 A           • at 200 V rated value         0.15 A           • at 20 V rated value         6 A           • at 24 V rated value         6 A           • at 48 V rated value         0.15 A           • at 24 V rated value         0.9 A           • at 48 V rated value         0.9 A           • at 10 V rated value         0.9 A           • at 200 V rated value         0.9 A           • at 200 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 600 V rated value         22 A           • at 600 V rated value         21 A           • at 600 V rated value         21 A           •	• at 690 V rated value	1 A
• at 48 V rated value         6 A           • at 60 V rated value         6 A           • at 10 V rated value         3 A           • at 125 V rated value         2 A           • at 220 V rated value         0.15 A           operational current at DC-13         -           • at 24 V rated value         6 A           • at 60 V rated value         2 A           • at 60 V rated value         0.15 A           operational current at DC-13         -           • at 24 V rated value         6 A           • at 60 V rated value         2 A           • at 60 V rated value         0.9 A           • at 10 V rated value         0.9 A           • at 60 V rated value         0.3 A           • at 60 V rated value         0.1 A           • at 60 V rated value         0.1 A           • at 600 V rated value         0.1 A           • at 600 V rated value         22 A           • at 600 V rated value         21 A           • at 600 V rated value         22 A           • at 600 V rated value         21 A           • at 600 V rated value         21 A           • at 600 V rated value         21 A           • at 600 V rated value         2 hp           • a	operational current at DC-12	
• at 60 V rated value         6 A           • at 110 V rated value         3 A           • 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 80 V rated value         6 A           • at 84 V rated value         6 A           • at 84 V rated value         2 A           • at 84 V rated value         2 A           • at 80 V rated value         0.9 A           • at 125 V rated value         0.3 A           • at 800 V rated value         0.3 A           • at 800 V rated value         0.1 A           • at 800 V rated value         0.1 A           • at 800 V rated value         0.2 A           • at 800 V rated value         0.1 A           • at 800 V rated value         0.1 A           • at 800 V rated value         22 A           • at 800 V rated value         22 A           • at 480 V rated value         21 A           • at 480 V rated value         21 A           • at 600 V rated value         21 A           • at 600 V rated value         21 A           • at 600 V rated value         3 hp <td< td=""><td>• at 24 V rated value</td><td>10 A</td></td<>	• at 24 V rated value	10 A
• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A• at 600 V rated value6 A• at 48 V rated value2 A• at 48 V rated value2 A• at 60 V rated value0.9 A• at 110 V rated value0.9 A• at 220 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value2 A• at 600 V rated value2.1 A• at 600 V rated value0.2 A• at 600 V rated value0.2 A• at 600 V rated value0.2 A• at 600 V rated value0.1 A• at 600 V rated value2.1 A• at 600 V rated value2.2 A• at 600 V rated value3.3 A• at 600 V rated value3.4 B• at 600 V rated value3.4 B <t< td=""><td>• at 48 V rated value</td><td>6 A</td></t<>	• at 48 V rated value	6 A
• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A• operational current at DC-13•• at 24 V rated value6 A• at 24 V rated value2 A• at 60 V rated value2 A• at 60 V rated value0.9 A• at 10 V rated value0.9 A• at 20 V rated value0.1 A• at 20 V rated value0.1 A• at 20 V rated value0.1 A• at 20 V rated value2 A• at 20 V rated value0.2 A• at 480 V rated value0.1 A• at 480 V rated value2 A• at 600 V rated value2 A• at 480 V rated value2 A• at 480 V rated value2 A• at 600 V rated value2 A• at 600 V rated value2 A• at 600 V rated value2 A• at 200 V rated value2 h• at 200 V rated value3 h• at 200 V rated value3 h• at 200 V rated value5 h• at 200208 V rated value5 h• at 400480 V rated value5 h• at 200208 V rated value5 h• at 60480 V rated valu	• at 60 V rated value	6 A
• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-13•• at 24 V rated value6 A• at 24 V rated value2 A• at 60 V rated value2 A• at 60 V rated value0.9 A• at 110 V rated value0.9 A• at 220 V rated value0.1 A• at 600 V rated value2 A• at 600 V rated value0.1 A• at 600 V rated value2 A• at 600 V rated value3 hp• at 700 V rated value3 hp• for 3-phase AC motor at 2007280 V rated value5 hp- at 2007280 V rated value5 hp- at 60/480 V rated value15 hp	• at 110 V rated value	3 A
• at 600 V rated value         0.15 A           operational current at DC-13         -           • at 24 V rated value         6 A           • at 24 V rated value         2 A           • at 60 V rated value         2 A           • at 10 V rated value         1 A           • at 110 V rated value         0.9 A           • at 220 V rated value         0.1 A           • at 600 V rated value         21 A           • at 600 V rated value         22 A           • at 480 V rated value         21 A           • at 600 V rated value         22 A           • at 600 V rated value         22 A           • at 600 V rated value         2 hp           • at 600 V rated value         3 hp           • at 700 V rated value         3 hp           • at 230 V rated value         3 hp           • at 230 V rated value         5 hp           - at 200/208 V rated value         5 hp	• at 125 V rated value	2 A
operational current at DC-13• at 24 V rated value6 A• at 24 V rated value2 A• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 25 V rated value0.9 A• at 20 V rated value0.1 A• ontact value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 600 V rated value21 A• at 600 V rated value22 Ayielded mechanical performance [hp]-• for single-phase AC motor at 110/120 V rated value2 hp- at 230 V rated value3 hp• for single-phase AC motor at 200/208 V rated value5 hp- at 200/208 V rated value5 hp- at 200/208 V rated value5 hp- at 220/230 V rated value5 hp- at 460/480 V rated value15 hp	• at 220 V rated value	1 A
• at 24 V rated value         6 A           • at 48 V rated value         2 A           • at 60 V rated value         2 A           • at 60 V rated value         1 A           • at 10 V rated value         0.9 A           • at 220 V rated value         0.3 A           • at 600 V rated value         0.1 A           • at 600 V rated value         21 A           • at 600 V rated value         22 A           • at 600 V rated value         22 A           • at 10/120 V rated value         2 hp           - at 110/120 V rated value         2 hp           - at 200/208 V rated value         3 hp           • for 3-phase AC motor         -           - at 200/208 V rated value         5 hp           - at 200/208 V rated value         5 hp           - at 200/208 V rated value         5 hp           - at 460/480 V rated value         15 hp	• at 600 V rated value	0.15 A
• at 48 V rated value2 A• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A• at 600 V rated value1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratings21 A• at 480 V rated value22 A• at 600 V rated value22 A• at 600 V rated value22 A• at 600 V rated value2 h• at 600 V rated value3 hp• at 200 V rated value5 hp- at 200/208 V rated value5 hp- at 200/208 V rated value5 hp- at 200/208 V rated value5 hp- at 460/480 V rated value5 hp	operational current at DC-13	
• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value21 A• at 600 V rated value22 A• jelded mechanical performance [hp]•• for single-phase AC motor2 hp- at 110/120 V rated value2 hp- at 230 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value5 hp- at 200/208 V rated value5 hp- at 220/230 V rated value15 hp	• at 24 V rated value	6 A
• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UU/CSA ratingsUU/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value21 A• at 480 V rated value22 A• jelded mechanical performance [hp]-• for single-phase AC motor at 110/120 V rated value2 hp- at 230 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value5 hp- at 220/230 V rated value5 hp- at 220/230 V rated value15 hp	• at 48 V rated value	2 A
• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor21 A• at 480 V rated value21 A• at 600 V rated value22 A• jelded mechanical performance [hp]-• for single-phase AC motor2 hp- at 110/120 V rated value2 hp- at 230 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value5 hp- at 200/208 V rated value5 hp- at 200/208 V rated value15 hp	• at 60 V rated value	2 A
• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor21 A• at 480 V rated value22 A• at 600 V rated value22 Ayielded mechanical performance [hp]4• for single-phase AC motor2 hp- at 110/120 V rated value2 hp- at 230 V rated value3 hp• for 3-phase AC motor3 hp- at 200/208 V rated value5 hp- at 200/208 V rated value5 hp- at 220/230 V rated value7.5 hp- at 460/480 V rated value15 hp	• at 110 V rated value	1 A
• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratings2full-load current (FLA) for 3-phase AC motor21 A• at 480 V rated value22 A• at 600 V rated value22 A• for single-phase AC motor at 110/120 V rated value2 hp• for 3-phase AC motor at 230 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value5 hp- at 200/208 V rated value5 hp- at 220/230 V rated value5 hp- at 460/480 V rated value15 hp	• at 125 V rated value	0.9 A
contact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor21 A• at 480 V rated value21 A• at 600 V rated value22 Ayielded mechanical performance [hp]-• for single-phase AC motor2 hp- at 110/120 V rated value2 hp- at 230 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value5 hp- at 220/200 V rated value5 hp- at 220/200 V rated value5 hp- at 460/480 V rated value15 hp	• at 220 V rated value	
UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value21 A• at 600 V rated value22 Ayielded mechanical performance [hp]• for single-phase AC motor2 hp- at 110/120 V rated value2 hp- at 230 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value5 hp- at 220/230 V rated value5 hp- at 460/480 V rated value15 hp	• at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor• at 480 V rated value21 A• at 600 V rated value22 Ayielded mechanical performance [hp]22 A• for single-phase AC motor2 hp- at 110/120 V rated value2 hp- at 230 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value5 hp- at 220/230 V rated value7.5 hp- at 460/480 V rated value15 hp		1 faulty switching per 100 million (17 V, 1 mA)
• at 480 V rated value21 A• at 600 V rated value22 Ayielded mechanical performance [hp]-• for single-phase AC motor at 110/120 V rated value2 hp- at 230 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value5 hp- at 220/230 V rated value5 hp- at 460/480 V rated value15 hp	UL/CSA ratings	
• at 600 V rated value       22 A         yielded mechanical performance [hp]       -         • for single-phase AC motor       -         - at 110/120 V rated value       2 hp         - at 230 V rated value       3 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       5 hp         - at 220/230 V rated value       5 hp         - at 460/480 V rated value       15 hp	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp]• for single-phase AC motor2 hp- at 110/120 V rated value2 hp- at 230 V rated value3 hp• for 3-phase AC motor at 200/208 V rated value5 hp- at 220/230 V rated value7.5 hp- at 460/480 V rated value15 hp	• at 480 V rated value	21 A
<ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>2 hp</li> <li>at 230 V rated value</li> <li>3 hp</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>5 hp</li> <li>at 220/230 V rated value</li> <li>7.5 hp</li> <li>at 460/480 V rated value</li> <li>15 hp</li> </ul>	• at 600 V rated value	22 A
<ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 220/208 V rated value</li> <li>5 hp</li> <li>at 220/230 V rated value</li> <li>7.5 hp</li> <li>at 460/480 V rated value</li> <li>15 hp</li> </ul>	yielded mechanical performance [hp]	
- at 230 V rated value3 hp• for 3-phase AC motor5 hp- at 200/208 V rated value5 hp- at 220/230 V rated value7.5 hp- at 460/480 V rated value15 hp	<ul> <li>for single-phase AC motor</li> </ul>	
for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>bp</li> <li>at 220/230 V rated value</li> <li>5 hp</li> <li>at 460/480 V rated value</li> <li>15 hp</li> </ul>	— at 110/120 V rated value	2 hp
	— at 230 V rated value	3 hp
	<ul> <li>for 3-phase AC motor</li> </ul>	
- at 460/480 V rated value 15 hp	— at 200/208 V rated value	5 hp
	— at 220/230 V rated value	7.5 hp
- at 575/600 V rated value 20 hp	— at 460/480 V rated value	15 hp
	— at 575/600 V rated value	20 hp

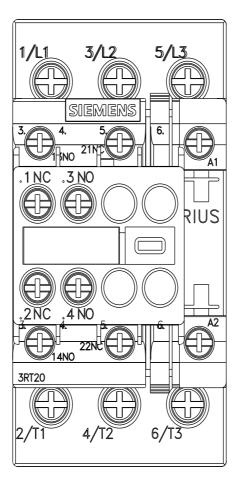
contact rating of auxiliary contacts according to UL	A600 / Q600		
Short-circuit protection			
design of the fuse link			
for short-circuit protection of the main circuit			
— with type of coordination 1 required	gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80		
	kA)		
— with type of assignment 2 required	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 80kA)		
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)		
Installation/ mounting/ dimensions			
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
side-by-side mounting	Yes		
height	85 mm		
width	45 mm		
depth	141 mm		
required spacing			
<ul> <li>with side-by-side mounting</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— at the side	6 mm		
— downwards	10 mm		
<ul> <li>for live parts</li> </ul>			
— forwards	10 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	6 mm		
Connections/ Terminals			
type of electrical connection			
<ul> <li>for main current circuit</li> </ul>	screw-type terminals		
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals		
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals		
of magnet coil	Screw-type terminals		
type of connectable conductor cross-sections for main contacts			
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
<ul> <li>solid or stranded</li> </ul>	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²		
connectable conductor cross-section for main contacts			
• solid	1 10 mm <sup>2</sup>		
stranded	1 10 mm <sup>2</sup>		
finely stranded with core end processing	1 10 mm²		
connectable conductor cross-section for auxiliary contacts	0.5 2.5 mm <sup>2</sup>		
<ul> <li>solid or stranded</li> <li>finally stranded with core and processing</li> </ul>	0.5 2.5 mm <sup>2</sup>		
finely stranded with core end processing	0.5 2.5 mm <sup>2</sup>		
type of connectable conductor cross-sections			
for auxiliary contacts     colid or stranded	$2x (0.5 - 1.5 mm^2) 2x (0.75 - 2.5 mm^2)$		
<ul> <li>— solid or stranded</li> <li>finally stranded with core and processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
<ul> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)		
AWG number as coded connectable conductor cross	LA (LV 10), LA (10 17)		
section			
• for main contacts	16 8		
<ul> <li>for auxiliary contacts</li> </ul>	20 14		
Safety related data			
product function			
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes		
-			

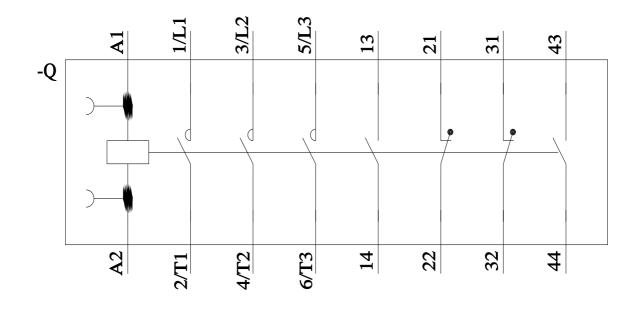
B10 value with high deman proportion of dangerous • with low demand ra • with high demand ra failure rate [FIT] with low of		31920 450	000		
<ul> <li>proportion of dangerous</li> <li>with low demand ra</li> <li>with high demand ra</li> <li>failure rate [FIT] with low of</li> </ul>	failures				
with low demand ra     with high demand ra     failure rate [FIT] with low c					
• with high demand ra failure rate [FIT] with low d		20 40	%		
failure rate [FIT] with low o	ate according to SN 319				
			FIT		
	rval or service life accor				
61508					
protection class IP on th	e front according to IE	C 60529 IP2	0		
touch protection on the	front according to IEC	60529 fing	er-safe, for vertical contact	from the front	
suitability for use					
<ul> <li>safety-related switch</li> </ul>	hing OFF	Yes	;		
ertificates/ approvals		_	_		_
General Product Approv	al				
	<u>Confirmation</u>	CCC		KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confe	ormity	Test Certificates	
	ype Examination Cer- tificate	CE EG-Konf.	UK CA	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report
ABS	BUREAU VERITAS		Lloyd's Register urs	RINA	RMRS
other			Railway	Environment	
<u>Confirmation</u>		<u>Confirmation</u>	Vibration and Shock	Environmental Con- firmations	
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http://www.automation.sie	mens.com/bilddb/cax_d	e.aspx?mlfb=3RT2026	ls, device circuit diagram -1AV04⟨=en	s, EPLAN macros,)	
Characteristic: Tripping https://support.industry.sie	mens.com/cs/ww/en/ps	/3RT2026-1AV04/char			
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