## **SIEMENS**

Data sheet 3RT2035-3AR60



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 400 V AC, 50 Hz / 400-440 V, 60 Hz, auxiliary contacts: 1 NO + 1 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2,

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	6.6 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.2 W
without load current share typical	6.5 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	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
of auxiliary circuit rated value	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	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 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)	10/01/2014
Weight	0.98 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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 %

number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	60 A
value	
• at AC-1	CO A
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	60 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	55 A
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	35 A
• at AC-5a up to 690 V rated value	52.8 A
• at AC-5b up to 400 V rated value	33.2 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	36.5 A
— up to 400 V for current peak value n=20 rated value	36.5 A
— up to 500 V for current peak value n=20 rated value	36.5 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	24.2 A
— up to 400 V for current peak value n=30 rated value	24.2 A
— up to 500 V for current peak value n=30 rated value	24.2 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	22 A
at 690 V rated value	18.5 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	23 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	55 A
— at 60 V rated value	45 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
at ZZO V Tatod Value	

— at 600 V rated value	1.4 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A
— at 60 V rated value	6 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 60 V rated value	45 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 60 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	
4	
at 400 V rated value	11.6 kW
at 690 V rated value	16.8 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	14.5 kVA
• up to 400 V for current peak value n=20 rated value	25.2 kVA
• up to 500 V for current peak value n=20 rated value	
• up to 690 V for current peak value n=20 rated value	31.6 kVA
operating apparent power at AC 6a	31.6 kVA 28.6 kVA
operating apparent power at AC-6a	
■ up to 230 V for current peak value n=30 rated value  ■ up to 230 V for current peak value n=30 rated value	
	28.6 kVA
up to 230 V for current peak value n=30 rated value	28.6 kVA 9.6 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>	28.6 kVA 9.6 kVA 16.8 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> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	28.6 kVA 9.6 kVA 16.8 kVA 21 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> <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> <li>short-time withstand current in cold operating state up to</li> </ul>	28.6 kVA 9.6 kVA 16.8 kVA 21 kVA
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C	28.6 kVA  9.6 kVA  16.8 kVA  21 kVA  28.6 kVA
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum	28.6 kVA  9.6 kVA  16.8 kVA  21 kVA  28.6 kVA  843 A; Use minimum cross-section acc. to AC-1 rated value
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum	9.6 kVA 16.8 kVA 21 kVA 28.6 kVA  843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum	9.6 kVA 16.8 kVA 21 kVA 22.6 kVA 843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum	28.6 kVA  9.6 kVA  16.8 kVA  21 kVA  28.6 kVA  843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 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 short-time withstand current in cold operating state up to 40 °C  Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum	28.6 kVA  9.6 kVA  16.8 kVA  21 kVA  28.6 kVA  843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum slimited to 60 s switching at zero current maximum	28.6 kVA  9.6 kVA  16.8 kVA  21 kVA  28.6 kVA  843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum a limited to 60 s switching at zero current maximum  no-load switching frequency at AC	28.6 kVA  9.6 kVA  16.8 kVA  21 kVA  28.6 kVA  843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum ro-load switching frequency at AC operating frequency	9.6 kVA 16.8 kVA 21 kVA 28.6 kVA  843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value
up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C  limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum ro-load switching frequency at AC operating frequency at AC-1 maximum	28.6 kVA  9.6 kVA  16.8 kVA  21 kVA  28.6 kVA  843 A; Use minimum cross-section acc. to AC-1 rated value 596 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value 196 A; Use minimum cross-section acc. to AC-1 rated value  5 000 1/h  1 200 1/h

• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	7.0
at 50 Hz rated value	400 V
at 60 Hz rated value	400 440 V
	400 440 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	212 VA
• at 60 Hz	188 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power	
at minimum rated control supply voltage at AC	
— at 60 Hz	17.2 VA
at maximum rated control supply voltage at AC	
— at 60 Hz	17.2 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	18.5 VA
• at 60 Hz	16.5 VA
inductive power factor with the holding power of the coil	10.0 V/1
at 50 Hz	0.36
• at 60 Hz	0.39
	0.39
closing delay  • at AC	10 80 ms
	10 00 1115
opening delay	10 18 ms
• at AC arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	Standard A1 - A2
	1
number of NC contacts for auxiliary contacts instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
• 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 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)
contact remaining or auxiliary contacts	ridary ownorning per 100 million (17 V, 1 m/s)

Multiple current (FA) for 3-phase AC motor	UL/CSA ratings	
• st 460 V rated value		
# 160 OV rated value		40 A
yelded mechanical performance [hg]         * for arging-shase AC motor           — at 110 1720 V rates value         3 hg           — at 2002 V rated value         15 hg           — at 200280 V rated value         15 hp           — at 200280 V rated value         15 hp           — at 200280 V rated value         40 hp           — at 36 how 4 had value         40 hp           — at 36 how 4 had value         40 hp           design of the minitume crount breaker for short circuit protection         C characteristic 10 A; 0.4 kA           of the auxiliary contacts according to UL         A600 / P600           design of the minitume crount breaker for short circuit protection         C characteristic 10 A; 0.4 kA           • for short-circuit protection of the main crount         4 for short-circuit protection of the main crount           — will hype of coordination 1 required         40 (500 V, 100 kA), 84 (500 V, 100 kA), 8588 125 A (415 V, 80 KA)           — will hype of coordination 1 required         40 (500 V, 100 kA), 84 (500 V, 100 kA), 8588 125 A (415 V, 80 KA)           — will hype of assignment 2 required         40 (500 V, 100 kA), 84 (500 V, 100 kA), 8588 125 A (415 V, 80 KA)           — will hype of selection protection of the auxiliary switch required         40 (500 V, 100 kA), 84 (500 V, 100 kA), 8588 125 A (415 V, 80 KA)           — featuring position         4 for short-circuit protection of the auxiliary switch requ	at 600 V rated value	41 A
• for single-phase AC motor  — at 110/12 V rated value — at 230 V rated value — at 230 V rated value — at 20028 V rated value — at 20028 V rated value — at 20028 V rated value — at 400208 V rated value — at 40048 V rated value — at 4006 V rated value — at 4006 V rated value — at 4006 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the ninature circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — size of a sale of the auxiliary switch required  installation/ mounting filmensions  — 4-1800 (800 V, 100 kA), alti-80 (800 V, 100 kA), BS88: 125 A (415 V, 80 kA)  (6) 30 A (890 V, 100 kA), alti-80 A (800 V, 100 kA), BS88: 125 A (415 V, 80 kA)  (8) 30 A (890 V, 100 kA), alti-80 A (800 V, 100 kA), BS88: 125 A (415 V, 80 kA)  (9) 30 A (890 V, 100 kA), alti-80 A (800 V, 100 kA), BS88: 125 A (415 V, 80 kA)  (8) 30 A (890 V, 100 kA), alti-80 A (800 V, 100 kA), BS88: 125 A (415 V, 80 kA)  (9) 30 A (890 V, 100 kA), alti-80 A (800 V, 100 kA), BS88: 125 A (415 V, 80 kA)  (9) 30 A (890 V, 100 kA), alti-80 A (800 V, 100 kA), BS88: 125 A (415 V, 80 kA)  (9) 30 A (890 V, 100 kA), alti-80 A (800 V, 100 kA), BS88: 125 A (415 V, 80 kA)  (9) 30 A (890 V, 100 kA), alti-80 A (800 V, 100 kA), BS88: 125 A (415 V, 80 kA)  (9) 30 A (890 V, 100 kA), alti-80 A (800 V, 100 kA), BS88: 125 A (415 V, 80 kA)  (9) 30 A (890 V, 100 kA), alti-80 A (800 V, 100 kA), BS88: 125 A (415 V, 80 kA)  (8) 30 A (890 V, 100 kA), alti-80 A (800 V, 100 kA), B		
at 1101/20 V rated value		
- at 230 V rated value • for 3-phase AC motor  - at 2002050 V rated value - at 2002050 V rated value - at 4000769 V rated value - at 4000769 V rated value - at 575800 V rated value - broad valuilary concuts us to 230 V  design of the risulative acrout broader for short circuit protection of the ruse link - with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required - very broad value which required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for switch such circuit specified to short-circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - et al. auxiliary cortacts - sho	<b>.</b>	3 hp
• for 3-phase AC motor  — at 200208 V rated value — at 200208 V rated value — at 460480 V rated value — at 575600 V rated value  design of the ministure circuit breaker for short-circuit protection of the availiey crorott up to 200 V  design of the ministure circuit breaker for short-circuit protection of the availiey crorott up to 200 V  design of the ministure circuit breaker for short-circuit protection of the availiey crorott up to 200 V  design of the ministure circuit breaker for short-circuit protection of the availiey crorott up to 200 V  design of the ministure circuit breaker for short-circuit protection of the availiey crorott up to 200 V  design of the ministure circuit breaker for short-circuit protection of the availiey crorott up to 200 V  design of the ministure circuit breaker for short-circuit protection of the availiey available of the availies of the short circuit protection of the availies yet available of the short circuit protection of the availies yet available of the short circuit protection of the availies yet available yet available of the short circuit protection of the availies yet available yet available of the short circuit protection of the availies yet available yet availab		
at 2002/08 V rated value at 2002/08 V rated value at 460/480 V rated value at 460/480 V rated value at 675/600 V rated value	• for 3-phase AC motor	
- al 220/230 V rated value	•	10 hp
at 450/480 V rated value		·
- al 575/800 V rated value	— at 460/480 V rated value	·
AB00 / P800		·
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link		·
design of the ministure circuit treated for short-circuit protection of the auxiliary circuit up to 230 V design of the fuse link  • for short-circuit protection of the main circuit  — with type of conditation 1 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/mounting/dimensions  mounting possible  fastening method side-by-side mounting  fastening method side-by-side mounting  fastening method side-by-side mounting  fastening method  fastening me		
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • for short-circuit protection of the main circuit  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  * for short-circuit protection of the auxiliary switch required  * fastening method side-by-side mounting  fastening method side-by-side mounting  fastening method  fastening method  * fastening		C characteristic: 10 A; 0.4 kA
For short-circuit protection of the main circuit   - with type of coordination 1 required   gG. 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)   gG. 80A (690 V, 100 kA), aM: 50A (690 V, 100	·	
- with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required - for short-circuit protection of the auxiliary switch required - Installation/ mounting/ dimensions - with stallation/ mounting of dimensions - with stallation/ mounting of dimensions - with side-by-side mounting - fastening method side-by-side mounting - fastening method side-by-side mounting - fastening method - fa	_	
A   With type of assignment 2 required   9G: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)   9G: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)   9G: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)   9G: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)   9G: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)   9G: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)   9G: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)   9G: 80A (	·	~C. 400 A (000 V 400 kA) cA4 00 A (000 V 400 kA) D000 405 A (415 V 00
• for short-circuit protection of the auxiliary switch required mounting fumensions  mounting position	— with type of coordination 1 required	
Installation/ mounting/ dimensions	— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
#-/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.8" on vertical mounting surface.  fastening method side-by-side mounting  / Yes  fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  height  114 mm  width  55 mm  depth  - forwards  - upwards  - downwards  - downwards  - at the side  - for grounded parts  - for grounded parts  - at the side  - downwards  - upwards  - of main current circuit  - forwards  - at the side  - downwards  - at the side  - formards  - at the side  - downwards  - at the side  - downwards  - at the side  - formards  - at the side  - for man current circuit  - for for in air current circuit  - for auxiliary and control circuit  - at contactor for auxiliary contacts  - of magnet coil  type of connectable conductor cross-sections  - for main currents  - for main currents  - for main cuntacts  - solid or stranded  - finely stranded with core end processing  - for AWC cables for main contacts  - finely stranded with core end processing  - for AWC cables for main contacts  - finely stranded with core end processing  - fine	• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
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           height         114 mm           width         55 mm           depth         130 mm           required spacing	Installation/ mounting/ dimensions	
fastening method         Yes           fastening method         sere and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height         114 mm           width         55 mm           depth         130 mm           required spacing         "Image: Comparisor of Compari	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           height         114 mm           width         55 mm           depth         130 mm           required spacing         "with side-by-side mounting           — forwards         10 mm           — upwards         10 mm           — downwards         0 mm           — at the side         0 mm           — forwards         10 mm           — upwards         10 mm           — at the side         6 mm           — downwards         10 mm           — at the side         6 mm           — downwards         10 mm           — for live parts         10 mm           — upwards         10 mm           — downwards         10 mm           — for read the side         5 mm           Connection! Forminals         5 mm           for a main current circuit         screw-type terminals           • for a availiary and control circuit         spring-type terminals           • for	fastening method side-by-side mounting	
height         114 mm           width         55 mm           depth         130 mm           required spacing         ************************************	·	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — 10 mm  • for grounded parts — forwards — upwards — 10 mm  • for grounded parts — forwards — upwards — at the side — downwards — 10 mm  • for live parts — forwards — 10 mm  • for live parts — forwards — 10 mm  • for live parts — forwards — upwards — 10 mm  • for main current circuit — at the side — downwards — od ownwards — of mmin current circuit — for main current circuit — of main contacts — of main contacts — solid or stranded — finely stranded with core end processing — for AWG cables for main contacts — finely stranded with core end processing — for AWG cables for main contacts — finely stranded with core end processing — finely stranded wit	height	114 mm
e with side-by-side mounting  - forwards - upwards - downwards - at the side - for grounded parts - forwards - upwards - upwards - for grounded parts - forwards - upwards - upwards - upwards - upwards - at the side - downwards - 10 mm - at the side - for live parts - for live parts - for live parts - for wards - upwards - upwards - upwards - 10 mm - downwards - at the side - for main current circuit - for auxiliary and control circuit - for auxiliary and control circuit - of magnet coil  type of connectable conductor cross-sections - for main contacts - solid or stranded - finely stranded with core end processing - for AWG cables for main contacts - finely stranded with core end processing - finely stranded with	width	55 mm
<ul> <li>with side-by-side mounting</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>0 mm</li> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>10 mm</li> <li>outle side</li> <li>omm</li> <li>upwards</li> <li>at the side</li> <li>6 mm</li> <li>downwards</li> <li>10 mm</li> <li>at the side</li> <li>6 mm</li> <li>downwards</li> <li>10 mm</li> <li>for live parts</li> <li>for live parts</li> <li>upwards</li> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>of or auxiliary and control circuit</li> <li>of magnet coil</li> <li>spring-type terminals</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>spring-type terminals</li> <li>type of connectable conductor cross-sections</li> <li>of or main contacts</li> <li>x (1 35 mm²), 1x (1 35 mm²)</li> <li>to AWG cables for main contacts</li> <li>for AWG cables for main contacts</li> <li>finely stranded with core end processing</li> <li>fone AWG cables for main contacts</li> <li>finely stranded with core end processing</li> <li>fone AWG cables for main contacts</li> <li>finely stranded with core end processing</li> <li>fone AWG cables for main contacts</li> <li>finely stranded with core end processing</li> <li>fone part of the conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>fone AWG cables for main contacts</li> <li>finely stranded with core end processing</li> </ul>	depth	130 mm
forwards	required spacing	
- upwards	with side-by-side mounting	
- downwards - at the side - for grounded parts - forwards - upwards - upwards - at the side - downwards - at the side - downwards - at the side - downwards - for live parts - forwards - upwards - upwards - upwards - downwards - downwards - the side - formards - the side - for main current circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - of magnet coil  type of connectable conductor cross-sections - for main current dead - finely stranded with core end processing - for AWG cables for main contacts - finely stranded with core end processing - fi	— forwards	10 mm
- at the side  • for grounded parts  - forwards  - upwards  - at the side  - downwards  • for live parts  - forwards  - to man the side  - downwards  • for live parts  - forwards  - upwards  - upwards  - to man the side  - downwards  - downwards  - at the side  - downwards  - at the side  - formal the side  - formal the side  - for main current circuit  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  - for main contacts  - solid or stranded  - finely stranded with core end processing  • for AWG cables for main contacts  • finely stranded with core end processing	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards — of live parts — forwards — 10 mm  • for live parts — forwards — upwards — 10 mm — upwards — upwards — upwards — 10 mm — upwards — downwards — at the side — 6 mm  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • finely stranded with core end processing	— downwards	10 mm
- forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm  • for live parts - forwards 10 mm  • for live parts - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals  type of connectable conductor cross-sections • for main contacts - solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) - finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) • for AWG cables for main contacts 2x (18 2), 1x (18 1)  connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm²	— at the side	0 mm
- upwards - at the side - downwards 10 mm  • for live parts - forwards 10 mm  • for live parts - upwards 10 mm  - upwards 10 mm  - downwards 10 mm  - downwards 10 mm  - at the side 6 mm   Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts - solid or stranded - stranded - finely stranded with core end processing • finely stranded with core end processing	for grounded parts	
- at the side    - downwards    - for live parts    - forwards    - forwards    - upwards    - upwards    - downwards    - downwards    - downwards    - at the side    - downwards    - at the side    - domnections/ Terminals   **Torminals**  **Torminals**  **Torminal current circuit*    - for auxiliary and control circuit*    - at contactor for auxiliary contacts    - of magnet coil  **Spring-type terminals**  **Spring-typ	— forwards	10 mm
- downwards  • for live parts  - forwards  - upwards  - upwards  - downwards  - at the side  Connections/ Terminals  type of electrical connection  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • for main contacts  - solid or stranded  - finely stranded with core end processing  • finely stranded with core end processing	— upwards	10 mm
<ul> <li>for live parts <ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>6 mm</li> </ul> </li> <li>Connections/ Terminals</li> <li>type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>a spring-type terminals</li> </ul> </li> <li>type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>a solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>finely stranded with core end processing</li> </ul> </li> </ul>	•	6 mm
<ul> <li>for live parts <ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>6 mm</li> </ul> </li> <li>Connections/ Terminals</li> <li>type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>a spring-type terminals</li> </ul> </li> <li>type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>a solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>finely stranded with core end processing</li> </ul> </li> </ul>		10 mm
forwards 10 mm upwards 10 mm downwards 10 mm at the side 6 mm  Connections/ Terminals  type of electrical connection  • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals  type of connectable conductor cross-sections • for main contacts solid or stranded finely stranded with core end processing • for AWG cables for main contacts finely stranded with core end processing • finely stranded with core end processing		
- upwards 10 mm - downwards 6 mm  Connections/ Terminals  type of electrical connection  • for main current circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts - finely stranded with core end processing • finely stranded with core end processing	•	10 mm
- downwards - at the side  Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing  1 35 mm²  1 35 mm²		
— at the side 6 mm  Connections/ Terminals  type of electrical connection	•	
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections  • for main contacts  — solid or stranded  — finely stranded with core end processing  • for AWG cables for main contacts  • finely stranded with core end processing		
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections  • for main contacts  — solid or stranded  — finely stranded with core end processing  • for AWG cables for main contacts  • finely stranded with core end processing	Connections/ Terminals	
<ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Spring-type terminals</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>for AWG cables for main contacts</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>1 35 mm²</li> <li>1 35 mm²</li> <li>1 35 mm²</li> </ul>		
<ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>Spring-type terminals</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> <li>for AWG cables for main contacts</li> <li>finely stranded with core end processing</li> <li>1 35 mm²</li> <li>2x (1 35 mm²), 1x (1 50 mm²)</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> <li>2x (18 2), 1x (18 1)</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>1 35 mm²</li> </ul>	• for main current circuit	screw-type terminals
	<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing  • for AWG cables for main contacts  • finely stranded with core end processing  2x (1 35 mm²), 1x (1 50 mm²)  2x (1 25 mm²), 1x (1 35 mm²)  2x (18 2), 1x (18 1)  connectable conductor cross-section for main contacts  • finely stranded with core end processing  1 35 mm²	at contactor for auxiliary contacts	Spring-type terminals
<ul> <li>for main contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>for nectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> <li>1 35 mm²)</li> </ul> </li> <li>tonnectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> <li>35 mm²</li> </ul> </li> </ul>	of magnet coil	Spring-type terminals
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>● for AWG cables for main contacts</li> <li>● finely stranded with core end processing</li> <li>• for AWG cables for main contacts</li> <li>• finely stranded with core end processing</li> <li>1 35 mm²)</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> <li>2x (18 2), 1x (18 1)</li> </ul>	type of connectable conductor cross-sections	
<ul> <li>— finely stranded with core end processing</li> <li>● for AWG cables for main contacts</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> <li>2x (18 2), 1x (18 1)</li> <li>connectable conductor cross-section for main contacts</li> <li>● finely stranded with core end processing</li> <li>1 35 mm²</li> </ul>	• for main contacts	
<ul> <li>— finely stranded with core end processing</li> <li>● for AWG cables for main contacts</li> <li>2x (1 25 mm²), 1x (1 35 mm²)</li> <li>2x (18 2), 1x (18 1)</li> <li>connectable conductor cross-section for main contacts</li> <li>● finely stranded with core end processing</li> <li>1 35 mm²</li> </ul>	— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>for AWG cables for main contacts</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>1 35 mm²</li> </ul>	<ul> <li>finely stranded with core end processing</li> </ul>	
connectable conductor cross-section for main contacts  • finely stranded with core end processing  1 35 mm <sup>2</sup>		
• finely stranded with core end processing 1 35 mm²		
		1 35 mm²
	connectable conductor cross-section for auxiliary contacts	

<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 1.5 mm²
<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid or stranded	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 14)
AWG number as coded connectable conductor cross section	
• for main contacts	18 1
• for auxiliary contacts	20 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Further information	
Information on the nackaging	-

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=3RT2035-3AR60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-3AR60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3A

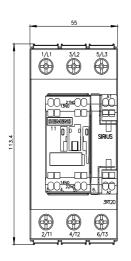
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2035-3AR60&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2035-3AR60&lang=en</a>

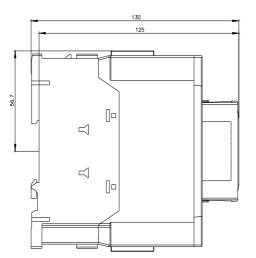
Characteristic: Tripping characteristics, I2t, Let-through current

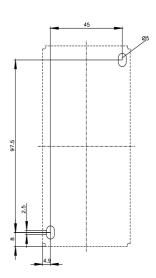
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3AR60/char

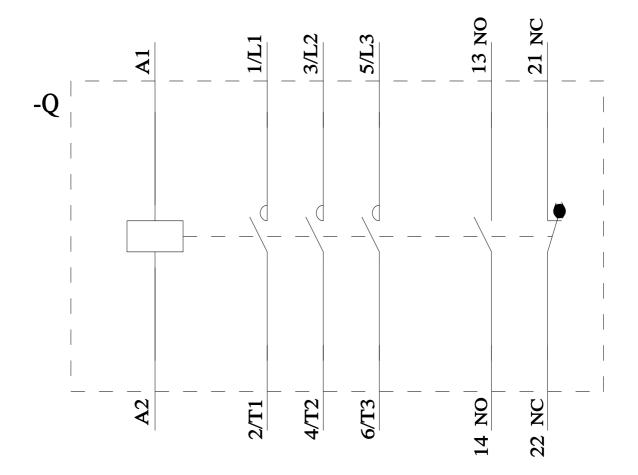
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-3AR60&objecttype=14&gridview=view1









last modified:

1/24/2025

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