# **SIEMENS**

Data sheet 3RT2017-1AT61

	power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 600 V AC, 60 Hz, auxiliary contacts: 1 NO, screw terminal, size: S00
product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	\$00
product extension	
function module for communication	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
at AC in hot operating state	1.5 W
at AC in hot operating state per pole	0.5 W
without load current share typical	6.5 W
insulation voltage	
of main circuit with degree of pollution 3 rated value	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
of main circuit rated value	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	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
of the contactor with added auxiliary switch block typical	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
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 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
at AC-3e rated value maximum	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	22 A
at AC-1  — up to 690 V at ambient temperature 40 °C rated	22 A
value — up to 690 V at ambient temperature 60 °C rated value	20 A

• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	8.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	19.4 A
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	9.9 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	7.2 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.2 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	7.2 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	6.7 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	4.8 A
— up to 400 V for current peak value n=30 rated value	4.8 A
— up to 500 V for current peak value n=30 rated value	4.8 A
— up to 690 V for current peak value n=30 rated value	4.8 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at	
AC-4	44.6
at 400 V rated value     at 600 V rated value	4.1 A
at 690 V rated value  operational current	3.3 A
at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	0.0 A
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
with 3 current paths in series at DC-1	0.174
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
vere terre	

— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	5.5 kW
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
at 400 V rated value	2 kW
at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	2.8 kVA
• up to 400 V for current peak value n=20 rated value	4.9 kVA
• up to 500 V for current peak value n=20 rated value	6.2 kVA
• up to 690 V for current peak value n=20 rated value	8 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	1.9 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	3.3 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	4.1 kVA
• up to 690 V for current peak value n=30 rated value	5.7 kVA
short-time withstand current in cold operating state up to 40 $^{\circ}\text{C}$	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	200 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	123 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	96 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	74 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 60 Hz rated value	600 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 60 Hz	43 VA
inductive power factor with closing power of the coil	
● at 60 Hz	0.8
apparent holding power of magnet coil at AC	
● at 60 Hz	6.5 VA
inductive power factor with the holding power of the coil	
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms

arcing time	• at AC	4 15 ms
Control version of the switch operating mechanism  Anxillary accounts  questional current at AC-12 maximum  operational current at AC-12 maximum  operational current at AC-13  • at 400 V rated value  • at 800 V rated value		
Austlary scrout contect contec		
Inumber of NO contacts for auxiliary contacts instantaneous   1		
Separational current at AC-15	number of NO contacts for auxiliary contacts instantaneous	1
# at 230 V rated value	operational current at AC-12 maximum	10 A
at 400 V rated value	operational current at AC-15	
### ### ### ### ### ### ### ### ### ##	• at 230 V rated value	10 A
a 1890 V rated value	• at 400 V rated value	3 A
10 A   24 V rated value	<ul> <li>at 500 V rated value</li> </ul>	2 A
at 124 V rated value	• at 690 V rated value	1 A
a ti 48 V rated value at 10 V rated value at 10 V rated value 2 A at 1125 V rated value 2 A at 125 V rated value 2 A 3 A at 24 V rated value 2 A 3 A at 25 V rated value 3 A 4 A 4 150 V rated value 0.15 A  operational current at DC-13 at 26 V rated value 2 A 4 at 30 V rated value 2 A 4 at 48 V rated value 3 A 4 A 4 A V rated value 4 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5 A 5	operational current at DC-12	
a 16 0 V rated value a 110 V rated value 2 A a 1120 V rated value 2 A a 1220 V rated value 2 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3 A 3	• at 24 V rated value	10 A
at 110 V rated value	<ul> <li>at 48 V rated value</li> </ul>	6 A
at 125 V rated value	at 60 V rated value	6 A
1	• at 110 V rated value	3 A
• at 600 V rated value	• at 125 V rated value	2 A
operational current at DC-13  • at 24V rated value	• at 220 V rated value	1 A
10 A   14 8 V rated value	at 600 V rated value	0.15 A
	operational current at DC-13	
at 100 V rated value at 1105 V rated value at 125 V rated value at 125 V rated value at 220 V rated value 0.3 A at 800 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)  UUCSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 11 A yielded mechanical performance [hp] of single-phase AC motor - at 1001 V rated value - at 230 V rated value - at 230 V rated value - at 230 V rated value - at 2002/08 V rated value - at 2002/08 V rated value - at 2002/08 V rated value - at 250/230 V rated value - at 460/480 V rated value - with type of coordination 1 required - with type of coordination 1 required - with type of coordination 1 required - with type of or-circuit protection of the main circuit - with type of ossignment 2 required for short-circuit protection of the main circuit - with type of assignment 2 required - with type of assignment 2 required - with type of sassignment 2 required - with type of sassignment 2 required - side-by-side mounting - side-by-side mounting - side-by-side mounting - with side-by-side mounting	<ul> <li>at 24 V rated value</li> </ul>	10 A
at 110 V rated value at 125 V rated value at 220 V rated value 0.9 A at 220 V rated value 0.1 A contact reliability of auxiliary contacts  UUCSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 11 A  at 800 V rated value 11 A  yielded mechanical performance [hp] of or single-phase AC motor  — at 110/120 V rated value 11 A  you rated value 2 hp  of or 3-phase AC motor — at 220/208 V rated value 2 hp  — at 220/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 480/480 V rated value 3 hp — at 480/480 V rated value 3 hp — at 575/600 V rated value 4 (10 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link of or short-circuit protection of the main circuit — with type of coordination 1 required 9G: 50A (690V,100KA), aM: 20A (690V,100KA), BS88: 35A (415V,80KA) 9G: 50A (690V,100KA), aM: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G: 50A (690V,100KA), am: 16A (690V,100KA), BS88: 20A (415V,80KA) 9G:	• at 48 V rated value	2 A
at 125 V rated value at 220 V rated value at 600 V rated value  contact reliability of auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  UJCSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 11 A 11 A 11 A  yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value 15 for 3-phase AC motor — at 220 / rated value 5 for 3-phase AC motor — at 200/208 V rated value 16 for 3-phase AC motor — at 200/208 V rated value 17 5 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 3 hp — at 460/480 V rated value — at 575/600 V rated value 3 hp  at 200/208 V rated value 4 60/480 V rated value 3 hp  at 200/208 V rated value 4 60/480 V rated value 3 hp  at 200/208 V rated value 3 hp  at 200/208 V rated value 3 hp  at 200/208 V rated value 4 60/480 V rated value 5 for 5 hort-circuit protection  design of the fuse link  of or short-circuit protection of the main circuit — with type of assignment 2 required 9 GS: 50A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 35A (415V,80kA)  installation/ mounting/ dimensions  mounting position  fastoning method 5 crew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  required spacing  with side-by-side mounting  with side-by-side mounting  with side-by-side mounting	at 60 V rated value	2 A
at 220 V rated value at 600 V rated value 0.1 A  taulty switching per 100 million (17 V, 1 mA)  UCSA ratings  full-load current (FLA) for 3-phase AC motor at 800 V rated value 11 A  at 800 V rated value 11 A  yielded mechanical performance [hp]  for single-phase AC motor  at 110/120 V rated value 2 hp  for 3-phase AC motor  at 200/208 V rated value 2 hp  for 3-phase AC motor  at 200/208 V rated value 3 hp  at 200/208 V rated value 3 hp  at 200/208 V rated value 7,5 hp  at 45/5/600 V rated value 7,5 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  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 auxiliary switch required for short-circuit protection of the auxiliary switch required fastening method side-by-side mounting feuited spacing with side-by-side mounting	• at 110 V rated value	1 A
e at 600 V rated value  contact reliability of auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  e at 480 V rated value e at 600 V rated value e 11 A  for 3-phase AC motor	• at 125 V rated value	0.9 A
Contact reliability of auxiliary contacts  ULICSA ratings  full-load current (FLA) for 3-phase AC motor	<ul> <li>at 220 V rated value</li> </ul>	0.3 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  • at 1000 V rated value  • at 111 A  yielded mechanical performance (hp)  • for single-phase AC motor  — at 1101/20 V rated value  • for 3-phase AC motor  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  • at 200/208 V rated value  — at 200/208 V rated value  — at 460/480 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  — at 60/30 V rated value  — at 60/30 V rated value  — at 60/30 V rated value  — at 7.5 hp  — at 575/600 V rated value  (10 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • side-by-side mounting  fastening method  • side-by-side mounting  • with side-by-side mounting	at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value • 11 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value • of or 3-phase AC motor  — at 2200 V rated value • for 3-phase AC motor  — at 2200/208 V rated value • of or 3-phase AC motor  — at 2200/208 V rated value • at 2200/208 V rated value • at 275/600 V rated value • at 675/600 V rated value • or 3-phase AC motor  — at 275/600 V rated value • or 3-phase AC motor  — at 275/600 V rated value • or 10 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 • with type of coordination 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  • 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 p	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
• at 480 V rated value • at 600 V rated value  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value • for 3-phase AC motor  — at 220/230 V rated value • for 3-phase AC motor  — at 220/230 V rated value • at 220/230 V rated value — at 220/230 V rated value — at 275/500 V rated value — at 460/480 V rated value — at 575/500 V rated value — at 575/500 V rated value — at 575/500 V rated value — ot 675/500 V rated value — ot 675/500 V rated value — ot 960/480 V rated value — ot 960/480 V rated value — ot 960/480 V rated value — ot 975/500 V rated value — ot 975/500 V rated value — ot 960/480 V rated value — other fuse link  • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required — of or 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  for short-circuit p	UL/CSA ratings	
at 600 V rated value  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value — at 230 V rated value 9 to 3-phase AC motor  — at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — to the for short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required — with type of assignment 2 required 9G: 20A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) • for short-circuit protection of the auxiliary switch required 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; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filted forward and backward by +/- 22.5° on vertical mounting surface; can be filt	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value	• at 480 V rated value	11 A
• for single-phase AC motor     — at 110/120 V rated value	at 600 V rated value	11 A
- at 110/120 V rated value - at 230 V rated value - at 230 V rated value - for 3-phase AC motor - at 200/208 V rated value - at 200/208 V rated value - at 200/208 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 200/200 V rated value - at 460/480 V rated value - at 200/200 V rated value - at 460/480 V rated value - at 200/200 V rated value - at 460/480 V rated value - at 4	yielded mechanical performance [hp]	
- at 230 V rated value  • for 3-phase AC motor  - at 200/208 V rated value  - at 220/330 V rated value  - at 220/330 V rated value  - at 460/480 V rated value  - at 575/600 V rated value  - at 675/600 V rated value  - at 575/600 V rated value  - at 670/400 V rated value  - at 200/200 V rated value  - at 200/200 V rated value  - at 200/200 V rated value  - at 460/480 V rated value  - at 200/200 V rated value  - at 460/480 V rated value  - at 200/200 V rated value  - at 200/200 V rated value  - at 460/480 V rated value  - at 200/200 V rated value  - at 460/480 V rated value  - at 200/200 V rated value  - at 200/200 V rated value  - at 460/480 V rated value  - at 200/200 V rated value  - at 460/480 V rated value  - at 460/4	<ul> <li>for single-phase AC motor</li> </ul>	
of ro 3-phase AC motor	— at 110/120 V rated value	0.5 hp
- at 200/208 V rated value 3 hp - at 220/230 V rated value 7.5 hp - at 460/480 V rated value 7.5 hp - at 575/600 V rated value 10 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: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) - with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) • for short-circuit protection of the auxiliary switch required 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  height side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting	— at 230 V rated value	2 hp
- at 220/230 V rated value 7.5 hp - at 460/480 V rated value 7.5 hp - at 575/600 V rated value 10 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 9G: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)  — with type of assignment 2 required 9G: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)  • for short-circuit protection of the auxiliary switch required 9G: 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; can be tilted forward and backward by side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715  • side-by-side mounting 5 M point 10 DIN EN 60715	<ul> <li>◆ for 3-phase AC motor</li> </ul>	
- at 460/480 V rated value - at 575/600 V rated value 10 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required  installation/ mounting/ dimensions  mounting position  fastening method • side-by-side mounting  • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting	— at 200/208 V rated value	3 hp
- at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — 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   gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)   gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)   gG: 10 A (500 V, 1 kA)    Installation/ mounting/ dimensions    mounting position	— at 220/230 V rated value	3 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 — 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  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 • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  with side-by-side mounting  • with side-by-side mounting	— at 460/480 V rated value	7.5 hp
Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) — with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)  • for short-circuit protection of the auxiliary switch required 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 screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  • side-by-side mounting  *Yes  height  ### Midth ### ### ### ### ### ### ### ### ### ##	— at 575/600 V rated value	10 hp
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  for short-circuit protection of the auxiliary switch required  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  • side-by-side mounting  **results for the fuse link  **gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)  gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)  gG: 10 A (500 V, 1 kA)  **Installation/ mounting/ surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertic		A600 / Q600
for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         — for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions    With side-by-side mounting	Short-circuit protection	
— with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required — of reshort-circuit protection of the auxiliary switch required  — of short-circuit protection of the	design of the fuse link	
<ul> <li>with type of assignment 2 required         <ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)</li> </ul> </li> <li>installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> </ul> </li> <li>fastening method         <ul> <li>side-by-side mounting</li> <li>yes</li> </ul> </li> <li>height         <ul> <li>58 mm</li> </ul> </li> <li>width         <ul> <li>45 mm</li> </ul> </li> <li>depth         <ul> <li>73 mm</li> </ul> </li> <li>required spacing         <ul> <li>with side-by-side mounting</li> </ul> </li> </ul>	<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA)</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</li> <li>fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</li> <li>◆ side-by-side mounting</li> <li>height 58 mm</li> <li>width 45 mm</li> <li>depth 73 mm</li> <li>required spacing</li> <li>◆ with side-by-side mounting</li> </ul>		
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  • side-by-side mounting  Yes  height  58 mm  width  45 mm  depth  73 mm  required spacing  • with side-by-side mounting		
mounting position  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  fastening method  • side-by-side mounting  height  standard  58 mm  width  45 mm  depth  required spacing  • with side-by-side mounting	· · · · · · · · · · · · · · · · · · ·	gG: 10 A (500 V, 1 kA)
backward by +/- 22.5° on vertical mounting surface  fastening method	Installation/ mounting/ dimensions	
● side-by-side mounting  height  58 mm  width  45 mm  depth  required spacing  ● with side-by-side mounting		
height 58 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width 45 mm depth 73 mm required spacing • with side-by-side mounting	side-by-side mounting	Yes
depth 73 mm  required spacing  ● with side-by-side mounting	height	58 mm
required spacing  • with side-by-side mounting	width	45 mm
with side-by-side mounting	depth	73 mm
	required spacing	
— forwards 10 mm	<ul> <li>with side-by-side mounting</li> </ul>	
	— forwards	10 mm
— upwards 10 mm	— upwards	10 mm

Certificates/ approvals	
safety-related switching OFF  Contification of anymous Islands	Yes
suitability for use	Von
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
protection class IP on the front according to IEC 60529	
61508	IP20
T1 value for proof test interval or service life according to SN 51920	20 a
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
<ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul>	40 % 73 %
proportion of dangerous failures	40.9/
B10 value with high demand rate according to SN 31920	1 000 000
mirror contact according to IEC 60947-4-1  P10 value with high degreed rate according to SN 24020	Yes; with 3RH29
product function	Vermitte ODI IOO
Safety related data	
for auxiliary contacts	20 12
• for main contacts	20 12
section	
AWG number as coded connectable conductor cross	
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 12
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
for auxiliary contacts	
type of connectable conductor cross-sections	
• finely stranded with core end processing	0.5 2.5 mm²
solid or stranded	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts	
• finely stranded with core end processing	0.5 2.5 mm²
• stranded	0.5 4 mm²
• solid	0.5 4 mm²
connectable conductor cross-section for main contacts	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
• solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
type of connectable conductor cross-sections for main contacts	
of magnet coil	Screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
for auxiliary and control circuit	screw-type terminals
for main current circuit	screw-type terminals
type of electrical connection	
Connections/ Terminals	
— at the side	6 mm
— downwards	10 mm
— upwards	10 mm
— forwards	10 mm
• for live parts	
— downwards	10 mm
— at the side	6 mm
— upwards	10 mm
— forwards	10 mm
for grounded parts	
— at the side	0 mm
— downwards	10 mm

## **General Product Approval**





Confirmation



<u>KC</u>



**Test Certificates** EMC Functional **Declaration of Conformity** 



Type Examination Certificate





Type Test Certificates/Test Report

**Special Test Certific-**

### Marine / Shipping













Marine / Shipping

other

Railway

Environment



Confirmation



Vibration and Shock

**Environmental Confirmations** 

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT2017-1AT61

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1AT61

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AT61

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-1AT61&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AT61/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-1AT61&objecttype=14&gridview=view1

last modified:	2/10/2023	(3