SIEMENS

Data sheet

3RT2037-1AP00-1AA0



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2, upright mounting position

P	SIRIUS
product designation	
p	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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 	11.4 W
 at AC in hot operating state per pole 	3.8 W
 without load current share typical 	6 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	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)	
 of contactor typical 	10 000 000
of the contactor with added electronically optimized auxiliary switch block typical	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2014
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

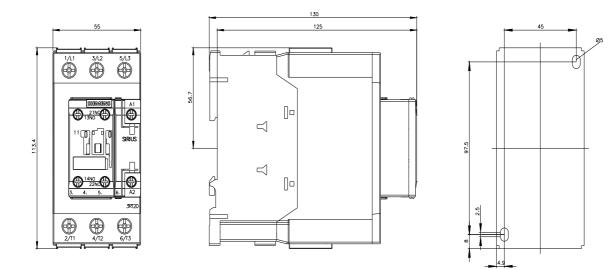
number of NO contacts for main contacts	3
operating voltage	5
• at AC-3 rated value maximum	690 V
at AC-3 rated value maximum at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	80 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	80 A
value	
— up to 690 V at ambient temperature 60 °C rated value	70 A
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
at AC-4 at 400 V rated value	55 A
• at AC-5a up to 690 V rated value	70.4 A
• at AC-5b up to 400 V rated value	53.9 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	56.9 A
— up to 400 V for current peak value n=20 rated value	56.9 A
— up to 500 V for current peak value n=20 rated value	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	38 A
 — up to 400 V for current peak value n=30 rated value 	38 A
 — up to 500 V for current peak value n=30 rated value 	38 A
 — up to 690 V for current peak value n=30 rated value 	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	28 A
• at 690 V rated value	22 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	1 A
— 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 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 	

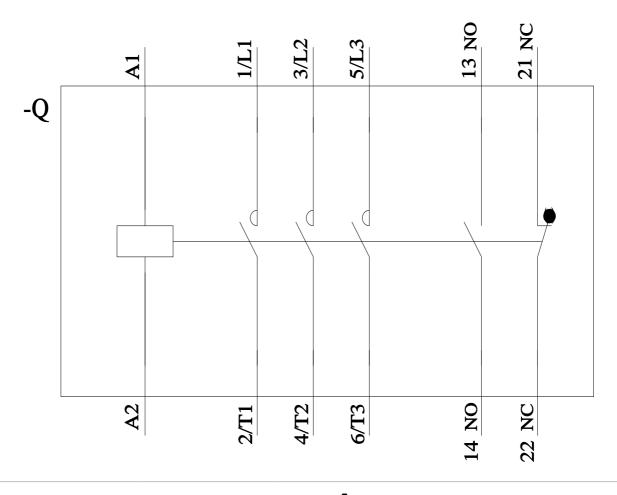
	— at 24 V rated value	35 A
	— at 60 V rated value	6 A
	— at 220 V rated value	1 A
• win 2 current path in series at DC-3 at DC-5 5 - at 24 V rade value 55 Å - at 110 V rade value 25 Å - at 110 V rade value 5 Å - at 440 V rade value 0.27 Å - at 440 V rade value 0.18 Å - at 440 V rade value 0.18 Å - at 440 V rade value 0.18 Å - at 440 V rade value 0.5 Å - at 440 V rade value 55 Å - at 440 V rade value 55 Å - at 440 V rade value 0.38 Å - at 440 V rade value 30 kW - at 440 V rade value 30 kW - at 420 V rade value 37 kW - at 400 V rade value 37 kW <td>— at 440 V rated value</td> <td>0.1 A</td>	— 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 	
- all 10 Vinited value at 440 Vinited value b 27 A - at 600 Vinited value 0 27 A - at 600 Vinited value 0 27 A - at 600 Vinited value 0 27 A - at 60 Vinited value 55 A - at 24 Vinited value 55 A - at 24 Vinited value 55 A - at 70 Vinited value 56 A - at 700 Vinited value 57 A - at 400 Vinited value 58 A - at 700 Vinited value 59 A - at 700 Vinited value 50 Vinited value	— 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
• with 3 current path in series at DC-3 at DC-5 55 A - at 20 V rated value 55 A - at 110 V rated value 55 A - at 120 V rated value 55 A - at 440 V rated value 66 A - at 420 V rated value 0.35 A operating power 0.35 A - at 600 V rated value 0.35 A operating power 0.15 KW - at 230 V rated value 30 KW - at 230 V rated value 30 KW - at 500 V rated value 30 KW - at 500 V rated value 30 KW - at 500 V rated value 37 KW - at 600 V rated value 37 KW - at 600 V rated value 30 KW <t< td=""><td>— at 440 V rated value</td><td>0.27 A</td></t<>	— 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
operating power at AC-2 at 400 V rated value 30 kW • at AC-3	— at 440 V rated value	0.6 A
	— at 600 V rated value	0.35 A
	operating power	
		30 kW
	• at AC-3	
at 400 V rated value30 kW at 500 V rated value37 kW at 230 V rated value37 kW at 230 V rated value15. kW at 400 V rated value30 kW at 630 V rated value30 kW at 630 V rated value37 kW at 630 V rated value20 kWoperating power for approx. 20000 operating cycles at AC at 640 V rated value20 kWoperating apparent power at AC-6820 kW operating apparent power at AC-6850 kW op to 200 V for current peak value n=20 rated value34 kVA up to 200 V for current peak value n=20 rated value35 kVA op to 400 V for current peak value n=30 rated value36 k kVA up to 200 V for current peak value n=30 rated value26 kVA op to 400 V for current peak value n=30 rated value28 kVA up to 580 V for current peak value n=30 rated value28 kVA op to 680 V for current peak value n=30 rated value28 kVA op to 680 V for current peak value n=30 rated value28 kVA op to 680 V for current peak value n=30 rated value28 kVA op time bas value n=30 rated value28 kVA <td>— at 230 V rated value</td> <td>18.5 kW</td>	— at 230 V rated value	18.5 kW
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	• at AC-3e	
	— at 230 V rated value	18.5 kW
	— at 400 V rated value	30 kW
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• up to 500 V for current peak value n=20 rated value 49.2 kVA • up to 690 V for current peak value n=20 rated value 56.1 kVA operating apparent power at AC-6a 15.1 kVA • up to 230 V for current peak value n=30 rated value 26.2 kVA • up to 500 V for current peak value n=30 rated value 26.2 kVA • up to 500 V for current peak value n=30 rated value 26.2 kVA • up to 500 V for current peak value n=30 rated value 25.3 kVA • up to 500 V for current peak value n=30 rated value 45.3 kVA • up to 500 V for current peak value n=30 rated value 45.3 kVA • up to 500 V for current peak value n=30 rated value 45.3 kVA • up to 500 V for current maximum 1 055 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 520 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 236 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 S switching at zero current maximum 272 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 272 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 272 A; Use minimum cross-section acc. to AC-1 rated value <td> up to 230 V for current peak value n=20 rated value </td> <td>22.6 kVA</td>	 up to 230 V for current peak value n=20 rated value 	22.6 kVA
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operating apparent power at AC-6a15.1 kVA• up to 230 V for current peak value n=30 rated value15.1 kVA• up to 400 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h	 up to 500 V for current peak value n=20 rated value 	49.2 kVA
 up to 230 V for current peak value n=30 rated value 15.1 kVA up to 400 V for current peak value n=30 rated value 26.2 kVA up to 500 V for current peak value n=30 rated value 32.8 kVA up to 690 V for current peak value n=30 rated value 45.3 kVA short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum 1055 A; Use minimum cross-section acc. to AC-1 rated value limited to 1 s switching at zero current maximum 1055 A; Use minimum cross-section acc. to AC-1 rated value limited to 30 s switching at zero current maximum S20 A; Use minimum cross-section acc. to AC-1 rated value limited to 30 s switching at zero current maximum S22 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum S22 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum S22 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum S22 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum S22 A; Use minimum cross-section acc. to AC-1 rated value at AC s to 00 1/h at AC-1 maximum at AC-1 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum 	 up to 690 V for current peak value n=20 rated value 	56.1 kVA
• up to 400 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVA short-time withstand current in cold operating state up to 40 °C 1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h	operating apparent power at AC-6a	
• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C1055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h	 up to 230 V for current peak value n=30 rated value 	15.1 kVA
• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h	 up to 400 V for current peak value n=30 rated value 	26.2 kVA
short-time withstand current in cold operating state up to 40 °C1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h	 up to 500 V for current peak value n=30 rated value 	32.8 kVA
40 °C• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 e maximum700 1/h• at AC-4 maximum200 1/h	 up to 690 V for current peak value n=30 rated value 	45.3 kVA
• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum800 1/h• at AC-3 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h		
• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h		
• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• no-load switching frequency272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h	-	
• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency • at AC5 000 1/hoperating frequency5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h	-	
• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency5 000 1/h• at AC5 000 1/hoperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h	-	
no-load switching frequency• at AC5 000 1/hoperating frequency• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h	-	
• at AC5 000 1/hoperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h		272 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h		
• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h		5 000 1/h
• at AC-2 maximum 400 1/h • at AC-3 maximum 700 1/h • at AC-3e maximum 700 1/h • at AC-4 maximum 200 1/h		
• at AC-3 maximum 700 1/h • at AC-3e maximum 700 1/h • at AC-4 maximum 200 1/h		
• at AC-3e maximum 700 1/h • at AC-4 maximum 200 1/h		
• at AC-4 maximum 200 1/h		
Control circuit/ Control		200 1/h
	Control circuit/ Control	

type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	100 \/A
• at 50 Hz	190 VA
inductive power factor with closing power of the coil • at 50 Hz	0.72
apparent holding power of magnet coil at AC	10.14
• at 50 Hz	16 VA
inductive power factor with the holding power of the coil	0.37
• at 50 Hz	0.57
elosing delay • at AC	10 80 ms
opening delay	10 00 1115
• at AC	10 18 ms
arcing time	10 20 ms
	Standard A1 - A2
control version of the switch operating mechanism	
Auxiliary circuit	1
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
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)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	65 A
• at 600 V rated value	52 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	50 hp

contact rating of auxiliary contacts according to UL A	600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
	G: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 A)
	G: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)
	G: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
	anding, on horizontal mounting surface
	crew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
-	es
	14 mm
· · · · · · · · · · · · · · · · · · ·	5 mm
depth 13	30 mm
required spacing	
with side-by-side mounting	
— forwards 10	0 mm
— upwards 10	0 mm
— downwards 10	0 mm
— at the side 0	mm
for grounded parts	
— forwards 10	0 mm
— upwards 10	0 mm
- at the side 6	mm
- downwards 10	0 mm
for live parts	
— forwards 10	0 mm
— upwards 10	0 mm
— downwards 10	0 mm
	mm
Connections/ Terminals	
type of electrical connection	
for main current circuit sc	crew-type terminals
for auxiliary and control circuit sc	crew-type terminals
-	crew-type terminals
a of magnat coil	
· · · · · · · · · · · · · · · · · · ·	crew-type terminals
type of connectable conductor cross-sections for main contacts	
type of connectable conductor cross-sections for main contacts solid or stranded 2x	x (1 35 mm²), 1x (1 50 mm²)
type of connectable conductor cross-sections for main contacts • solid or stranded 2x • finely stranded with core end processing 2x	
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 2x	x (1 35 mm²), 1x (1 50 mm²) x (1 25 mm²), 1x (1 35 mm²)
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1	x (1 35 mm²), 1x (1 50 mm²)
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 1	x (1 35 mm²), 1x (1 50 mm²) x (1 25 mm²), 1x (1 35 mm²) 35 mm²
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 1 connectable conductor cross-section for auxiliary contacts 0.	x (1 35 mm²), 1x (1 50 mm²) x (1 25 mm²), 1x (1 35 mm²) 35 mm² 5 2.5 mm²
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 1 connectable conductor cross-section for auxiliary contacts 0. inely stranded 0. • finely stranded with core end processing 0.	x (1 35 mm²), 1x (1 50 mm²) x (1 25 mm²), 1x (1 35 mm²) 35 mm²
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 1 connectable conductor cross-section for auxiliary contacts 0. inely stranded with core end processing 0. type of connectable conductor cross-sections 0.	x (1 35 mm²), 1x (1 50 mm²) x (1 25 mm²), 1x (1 35 mm²) 35 mm² 5 2.5 mm²
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 1 connectable conductor cross-section for auxiliary contacts 0. inely stranded 0. finely stranded with core end processing 0. type of connectable conductor cross-sections 0. inely stranded with core end processing 0.	x (1 35 mm²), 1x (1 50 mm²) x (1 25 mm²), 1x (1 35 mm²) 35 mm² .5 2.5 mm² .5 2.5 mm²
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 0 • finely stranded with core end processing 0 tornnectable conductor cross-section for auxiliary contacts 0 • solid or stranded 0 • finely stranded with core end processing 0 • finely stranded with core send processing 0 • for auxiliary contacts 2 • for auxiliary contacts 2 • solid or stranded 2×	x (1 35 mm²), 1x (1 50 mm²) x (1 25 mm²), 1x (1 35 mm²) 35 mm² .5 2.5 mm² .5 2.5 mm² x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 0 • finely stranded 0 • finely stranded with core end processing 0 • for auxiliary contacts - solid or stranded - solid or stranded 2x - finely stranded with core end processing 2x	x (1 35 mm ²), 1x (1 50 mm ²) x (1 25 mm ²), 1x (1 35 mm ²) 35 mm ² 35 mm ² .5 2.5 mm ² .5 2.5 mm ² x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 0 • finely stranded with core end processing 0 timely stranded with core end processing 0 • finely stranded with core end processing 0 • for auxiliary contacts 0 • for auxiliary contacts 0 • for auxiliary contacts 2x • finely stranded with core end processing 2x • finely stranded with core end processing 2x • for AWG cables for auxiliary contacts 2x	x (1 35 mm²), 1x (1 50 mm²) x (1 25 mm²), 1x (1 35 mm²) 35 mm² .5 2.5 mm² .5 2.5 mm² x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 0 • finely stranded 0 • finely stranded with core end processing 0 • for auxiliary contacts - solid or stranded - solid or stranded 2x - finely stranded with core end processing 2x	x (1 35 mm ²), 1x (1 50 mm ²) x (1 25 mm ²), 1x (1 35 mm ²) 35 mm ² 35 mm ² .5 2.5 mm ² .5 2.5 mm ² x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 0 • finely stranded with core end processing 0 total or stranded 0 • finely stranded with core end processing 0 • for auxiliary contacts 0 - solid or stranded 2x - finely stranded with core end processing 2x • for AWG cables for auxiliary contacts 2x • for AWG cables for auxiliary contacts 2x AWG number as coded connectable conductor cross section 0	x (1 35 mm ²), 1x (1 50 mm ²) x (1 25 mm ²), 1x (1 35 mm ²) 35 mm ² 35 mm ² .5 2.5 mm ² .5 2.5 mm ² x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
type of connectable conductor cross-sections for main contacts• solid or stranded2x• finely stranded with core end processing2xconnectable conductor cross-section for main contacts1connectable conductor cross-section for auxiliary contacts0.• finely stranded with core end processing0.tornectable conductor cross-section for auxiliary contacts0.• solid or stranded0.• finely stranded with core end processing0.• finely stranded with core end processing0.• finely stranded with core end processing0.• for auxiliary contacts2x- solid or stranded2x- solid or stranded2x- finely stranded with core end processing2x• for AWG cables for auxiliary contacts2x• for AWG cables for auxiliary contacts2x• for main contacts18	x (1 35 mm ²), 1x (1 50 mm ²) x (1 25 mm ²), 1x (1 35 mm ²) 35 mm ² 35 mm ² .5 2.5 mm ² x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (20 16), 2x (18 14)
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 1 connectable conductor cross-section for auxiliary contacts 0. solid or stranded 0. • finely stranded with core end processing 0. • for auxiliary contacts 2x - solid or stranded 2x - finely stranded with core end processing 2x • for AWG cables for auxiliary contacts 2x • for AWG cables for auxiliary contacts 2x • for AWG cables for auxiliary contacts 2x • for main contacts 18	x (1 35 mm ²), 1x (1 50 mm ²) x (1 25 mm ²), 1x (1 35 mm ²) 35 mm ² 35 mm ² 2.5 mm ² 5 2.5 mm ² x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (20 16), 2x (18 14) 8 1
type of connectable conductor cross-sections for main contacts• solid or stranded2x• finely stranded with core end processing2xconnectable conductor cross-section for main contacts1connectable conductor cross-section for auxiliary contacts0• finely stranded with core end processing0• solid or stranded0• finely stranded with core end processing0• finely stranded with core end processing0• finely stranded with core end processing0• for auxiliary contacts2x• for auxiliary contacts2x• for auxiliary contacts2x• for AWG cables for auxiliary contacts2x• for main contacts18• for auxiliary contacts18• for auxiliary contacts2xAWG number as coded connectable conductor cross18• for auxiliary contacts2x• for auxiliary contacts <td< td=""><td>x (1 35 mm²), 1x (1 50 mm²) x (1 25 mm²), 1x (1 35 mm²) 35 mm² 35 mm² 2.5 mm² 5 2.5 mm² x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) x (20 16), 2x (18 14) 8 1</td></td<>	x (1 35 mm ²), 1x (1 50 mm ²) x (1 25 mm ²), 1x (1 35 mm ²) 35 mm ² 35 mm ² 2.5 mm ² 5 2.5 mm ² x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (20 16), 2x (18 14) 8 1
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 1 connectable conductor cross-section for auxiliary contacts 0. inely stranded with core end processing 0. type of connectable conductor cross-sections 0. • finely stranded with core end processing 0. type of connectable conductor cross-sections 0. • for auxiliary contacts 2x - solid or stranded 2x - finely stranded with core end processing 2x - for AWG cables for auxiliary contacts 2x • for main contacts 18 • for main contacts 18 • for auxiliary contacts 20 Safety related data 20	x (1 35 mm ²), 1x (1 50 mm ²) x (1 25 mm ²), 1x (1 35 mm ²) 35 mm ² 35 mm ² 2.5 mm ² 5 2.5 mm ² x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (20 16), 2x (18 14) 8 1
type of connectable conductor cross-sections for main contacts 2x • solid or stranded 2x • finely stranded with core end processing 2x connectable conductor cross-section for main contacts 1 connectable conductor cross-section for auxiliary contacts 1 connectable conductor cross-section for auxiliary contacts 0. inely stranded with core end processing 0. type of connectable conductor cross-sections 0. • finely stranded with core end processing 0. type of connectable conductor cross-sections 0. • for auxiliary contacts 2x - solid or stranded 2x - finely stranded with core end processing 2x - for AWG cables for auxiliary contacts 2x • for main contacts 18 • for main contacts 18 • for auxiliary contacts 20 Safety related data 20	x (1 35 mm ²), 1x (1 50 mm ²) x (1 25 mm ²), 1x (1 35 mm ²) 35 mm ² 5 2.5 mm ² 5 2.5 mm ² x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) x (0.5 16), 2x (18 14) 8 1 0 14 es
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 with low demand 	rate according to SN 319	20 40	%		
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T1 value for proof test i 61508	nterval or service life acco	rding to IEC 20	а		
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touch protection on th	ne front according to IEC	60529 fing	ger-safe, for vertical contact	from the front	
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Marine / Shipping					
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Marine / Shipping	other		Railway	Dangerous Good	
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