## SIEMENS

## Data sheet

## 3RT2023-1NB30



power contactor, AC-3 9 A, 4 kW / 400 V 1 NO + 1 NC, AC (50 / 60 Hz) DC operation 21-28 V AC/DC, 3-pole Size S0, screw terminal

product designation     Sinted       product designation     Sinted       general technical data     Size of contactor       size of contactor     S0       product extension     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     0.6 W       • at AC in hot operating state     0.6 W       • at AC in hot operating state per pole     0.2 W       • without load current share typical     2 W       Insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     680 V       • of auxiliary circuit rated value     6 kV       • at AC     10 00 V       stock resistance at rectangular impulse     10 000 V       • at AC     11.8g / 5 ms, 7.4g / 10 ms       • at AC     10 000 000	product brand name	SIRIUS
product type designation       3RT2         General technical data       S0         size of contactor       S0         product extension       No         • function module for communication       No         • auxiliary switch       Yes         power loss [W] for rated value of the current       0.6 W         • at AC in hot operating state       0.6 W         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       7.5g / 5 ms, 4.7g / 10 ms         • at AC       10 g / 5 ms, 7.4g / 10 ms         • at DC       15 g / 5 ms, 10 g / 10 ms         • of the contactor with added electronically optimized auxiliary switch block typi		
General technical data         size of contactor       S0         product extension       No         • function module for communication       No         • auxiliary switch       Yes         power loss [W] for rated value of the current       0.6 W         • at AC in hot operating state per pole       0.2 W         • without load current share typical       2 W         insulation voltage       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       64 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       7.5g / 5 ms, 4.7g / 10 ms         • at AC       10g / 5 ms, 7.5g / 10 ms         • at AC       15g / 5 ms, 10g / 10 ms         • at AC       15g / 5 ms, 10g / 10 ms         • at AC       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor wit		
size of contactor     S0       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     0.6 W       • at AC in hot operating state per pole     0.2 W       • without load current share typical     2 W       insulation voltage     6 fmain circuit with degree of pollution 3 rated value       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     7,5g / 5 ms, 4,7g / 10 ms       • at AC     11,8g / 5 ms, 7,5g / 10 ms       • at AC     11,8g / 5 ms, 7,4g / 10 ms       • at DC     10 000 000       • at AC     10,900 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added electronically optimized auxiliary switch		
product extension       No         • function module for communication       No         • auxiliary switch       Yes         power loss [W] for rated value of the current       0.6 W         • at AC in hot operating state       0.6 W         • at AC in hot operating state per pole       0.2 W         • without load current share typical       2 W         insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit rated value       6 kV         • of main contacts according to EN 60947-1         shock resistance at rectangular impulse       400 V         • at AC       10,8g / 5 ms, 7,4g / 10 ms         • at AC       11,8g / 5 ms, 7,4g / 10 ms         • at AC       11,8g / 5 ms, 7,4g / 10 ms         • at AC       10 000 000         • at AC       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch b		02
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power loss [W] for rated value of the current         • at AC in hot operating state       0.6 W         • at AC in hot operating state per pole       0.2 W         • without load current share typical       2 W         insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of main circuit rated value       680 V         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       7,5g / 5 ms, 4,7g / 10 ms         • at AC       10g / 5 ms, 7,4g / 10 ms         • at AC       11,8g / 5 ms, 7,4g / 10 ms         • at AC       10 000 000         • at AC       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch b		
<ul> <li>at AC in hot operating state</li> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>without load current share typical</li> <li>W</li> <li>insulation voltage</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of main circuit rated value</li> <li>of main contacts according to EN 60947-1</li> <li>shock resistance at rectangular impulse</li> <li>at AC</li> <li>biok resistance with sine pulse</li> <li>at AC</li> <li>at AC</li> <li>biok resistance with sine pulse</li> <li>at AC</li> <li>biok resistance with sine pulse</li> <li>at AC</li> <li>biok resistance with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with a</li></ul>		
<ul> <li>at AC in hot operating state per pole</li> <li>without load current share typical</li> <li>2 W</li> <li>insulation voltage</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of main circuit rated value</li> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>of main contacts according to EN 60947-1</li> <li>shock resistance at rectangular impulse         <ul> <li>at AC</li> <li>at AC</li> <li>at AC</li> <li>btock resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>btock resistance with sine pulse</li> <li>at AC</li> <li>btock resistance with sine pulse</li> <li>at AC</li> <li>btock resistance with sine pulse</li> <li>btock resistance with sine pulse</li> <li>btock resistance with added electronically optimized auxiliary switch block typical</li> <li>btock typical</li> <li< td=""><td></td><td>0.6 W</td></li<></ul></li></ul>		0.6 W
<ul> <li>without load current share typical</li> <li>2 W</li> <li>insulation voltage         <ul> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>at AC</li> <li>at AC</li> <li>at AC</li> <li>at AC</li> <li>at AC</li> <li>at AC</li> <li>block resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>block resistance with sine pulse</li> <li>at AC</li> <li>block resistance with sine pulse</li> <li>at AC</li> <li>block resistance with sine pulse</li> <li>at AC</li> <li>block resistance with sine pulse</li> <li>block resistance with added electronically optimized auxiliary switch block typical</li> <li>block typical</li> <li>block typical</li> <li>block typical</li> <li>block typical</li> <li>block typical</li> <li>block typical</li> </ul> </li> </ul>		
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<ul> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>surge voltage resistance</li> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>6 kV</li> <li>of auxiliary circuit rated value</li> <li>6 kV</li> <li>maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1</li> <li>shock resistance at rectangular impulse</li> <li>at AC</li> <li>ta AC</li> <li></li></ul>		
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>surge voltage resistance         <ul> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>of x AC</li> <li>at DC</li> <li>at AC</li> <li>bock resistance with sine pulse</li> <li>at AC</li> <li>at AC</li> <li>bock resistance life (switching cycles)</li> <li>of contactor typical</li> <li>auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>bock typical</li> <li>auxiliary switch block typical</li> <li>bock typical</li> <li>bock typical</li> <li>bock typical</li> <li>bock typical</li> <li>bock typical</li> <li>bock typical<td>•</td><td>690 V</td></li></ul></li></ul>	•	690 V
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shock resistance with sine pulse       0         • at AC       11,8g / 5 ms, 7,4g / 10 ms         • at DC       15g / 5 ms, 10g / 10 ms         mechanical service life (switching cycles)       0         • 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         • of the contactor with added auxiliary switch block typical       2 000 000	• at AC	7,5g / 5 ms, 4,7g / 10 ms
• at AC11,8g / 5 ms, 7,4g / 10 ms• at DC15g / 5 ms, 10g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typicalQ	• at DC	10g / 5 ms, 7,5g / 10 ms
• at DC         15g / 5 ms, 10g / 10 ms           mechanical service life (switching cycles)         10 000 000           • 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           • of the contactor with added auxiliary switch block typical         2 000 000           • of the contactor with added auxiliary switch block typical         0 000 000	shock resistance with sine pulse	
mechanical service life (switching cycles)       10 000 000         • 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	• at AC	11,8g / 5 ms, 7,4g / 10 ms
• 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	● at DC	15g / 5 ms, 10g / 10 ms
of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q	mechanical service life (switching cycles)	
auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q	<ul> <li>of contactor typical</li> </ul>	10 000 000
typical reference code according to IEC 81346-2 Q		5 000 000
		10 000 000
Substance Prohibitance (Date) 10/01/2009	reference code according to IEC 81346-2	Q
	Substance Prohibitance (Date)	10/01/2009
Ambient conditions	Ambient conditions	
installation altitude at height above sea level maximum 2 000 m	installation altitude at height above sea level maximum	2 000 m
ambient temperature	ambient temperature	
• during operation -25 +60 °C	<ul> <li>during operation</li> </ul>	-25 +60 °C
• during storage -55 +80 °C	<ul> <li>during storage</li> </ul>	-55 +80 °C

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	
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	40.4
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	40 A
rated value	
— up to 690 V at ambient temperature 60 °C	35 A
rated value	
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value — at 690 V rated value	9 A
<ul> <li>at 690 V rated value</li> <li>at AC-3e</li> </ul>	9 A
<ul> <li>at AC-3e</li> <li>— at 400 V rated value</li> </ul>	9 A
— at 500 V rated value	9 A 9 A
— at 690 V rated value	9 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	8.5 A
• at AC-5a up to 690 V rated value	35.2 A
• at AC-5b up to 400 V rated value	7.4 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated	11.4 A
value — up to 400 V for current peak value n=20 rated	11.4 A
value — up to 500 V for current peak value n=20 rated	9.1 A
value	9 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>	
• at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	7.6 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	7.6 A
<ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	6.1 A
— up to 690 V for current peak value n=30 rated value	6.1 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm² -
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A

	· ·
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
• with 3 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	4 kW
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles	
at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	2 kW
at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	4.5 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.8 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	7.8 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	10.7 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	3 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	5.2 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	5.2 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	7.2 kVA
short-time withstand current in cold operating state up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	170 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	170 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	122 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	78 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	68 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 500 1/h

● at DC	1 500 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	21 28 V
at 60 Hz rated value	21 28 V
control supply voltage at DC	2120 V
• rated value	21 28 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
initial value	0.7
• full-scale value	1.3
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.7 1.3
• at 60 Hz	0.7 1.3
design of the surge suppressor	with varistor
inrush current peak	3 A
duration of inrush current peak	30 µs
locked-rotor current mean value	0.3 A
locked-rotor current peak	0.52 A
duration of locked-rotor current	180 ms
holding current mean value	45 mA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	6.6 VA
• at 60 Hz	6.7 VA
inductive power factor with closing power of the coil • at 50 Hz	0.00
• at 50 Hz	0.98 0.98
apparent holding power of magnet coil at AC	
apparent noting power of magnet con at AC     o at 50 Hz	1.9 VA
• at 60 Hz	2 VA
inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.86
• at 60 Hz	0.82
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	1.4 W
closing delay	50 - 90 mg
● at AC ● at DC	50 80 ms 50 75 ms
• at DC opening delay	JU 70 IIIS
entry     entry	30 50 ms
• at DC	30 50 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
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	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
at 600 V rated value	0.15 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
<ul> <li>at 60 V rated value</li> </ul>	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
<ul> <li>at 125 V rated value</li> </ul>	0.9 A
<ul> <li>at 220 V rated value</li> </ul>	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	7.6 A
at 600 V rated value	9 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	1 hp
• for 3-phase AC motor	ι ηρ
- at 200/208 V rated value	2 hp
- at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
	5 lib
at EZE/600 V/ rated value	7.5 bp
- at 575/600 V rated value	7.5 hp
contact rating of auxiliary contacts according to UL	7.5 hp A600 / P600
contact rating of auxiliary contacts according to UL Short-circuit protection	
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link	
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	A600 / P600
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	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
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	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
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	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
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	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
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	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA)
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 coordination 1 required         • with type of assignment 2 required       • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions       mounting position	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
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	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715
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	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes
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	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm
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         height         width	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm
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         height         width         depth	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm
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         height         width         depth         required spacing	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm
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         height         width         depth         required spacing         • with side-by-side mounting	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm
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         height         width         depth         required spacing         • with side-by-side mounting	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm 10 mm
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         height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm 10 mm 10 mm
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         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm 10 mm
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         height         width         depth         required spacing         • with side-by-side mounting         — forwards         — upwards	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm 10 mm 10 mm
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         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm
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         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - at the side         • for grounded parts         - forwards	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 107 mm 10 mm 10 mm 10 mm
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         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards         - at the side         • for grounded parts	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 10 mm 10 mm 10 mm 0 mm
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         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - at the side         • for grounded parts         - forwards	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 10 mm 10 mm 10 mm 10 mm 10 mm
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         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - at the side         • for grounded parts         - mowards         - upwards         - upwards         - upwards         - upwards	A600 / P600 gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA) gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA) gG: 10 A (500 V, 1 kA) +/-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 standard mounting rail according to DIN EN 60715 Yes 85 mm 45 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm

for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
<ul> <li>of magnet coil</li> </ul>	Screw-type terminals
type of connectable conductor cross-sections	
for main contacts	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— solid or stranded	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
— finely stranded with core end processing	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (16 12), 2x (14 8)
connectable conductor cross-section for main	$2 \wedge (10 \dots 12), 2 \wedge (17 \dots 0)$
contacts	
• solid	1 10 mm²
stranded	1 10 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> </ul>	1 10 mm <sup>2</sup>
connectable conductor cross-section for auxiliary	
contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 2.5 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
<ul> <li>for main contacts</li> </ul>	16 8
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
B10 value with high demand rate according to SN 31920	450 000
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 у
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
suitability for use	
<ul> <li>safety-related switching OFF</li> </ul>	Yes
Certificates/ approvals	
General Product Approval	





Confirmation



<u>KC</u>



EMC

Functional

**Declaration of Conformity** 

**Test Certificates** 

7/8/2022

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Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2023-1NB30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-1NB30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1NB30

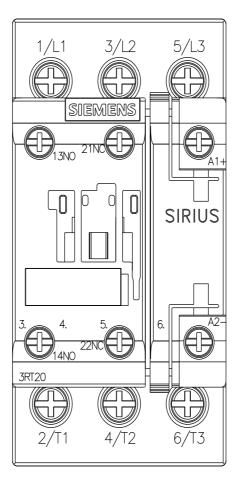
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2023-1NB30&lang=en

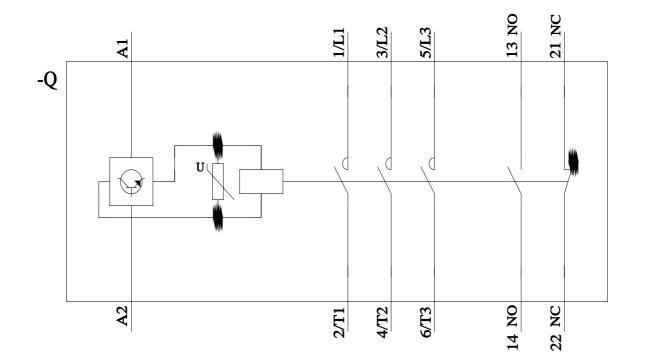
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1NB30/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2023-1NB30&objecttype=14&gridview=view1





6/2/2022 🖸