## SIEMENS

## Data sheet

## 3RT2024-1BB40



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal

product brand name         SIRIUS           product designation         SRT2           Central technical data         Set of contactor           size of contactor         S0           product stype designation         No           • auxiliary switch         Yes           • at AC in hot operating state per pole         0.3 W           • at AC in hot operating state per pole         0.3 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         61 KV           • of main circuit with degree of pollution 3 rated value         61 KV           • of main circuit with degree of pollution 3 rated value         61 KV           • of main circuit with degree of pollution 3 rated value         61 KV           • of main circuit with degree of pollution 3 rated value         61 KV           • of main circuit with advalue         61 KV           • of main circuit with degree of pollution 3 rated value         60 V           • of main circuit with advalue         61 KV           • of main circuit with advalue         61 KV           • of auxiliary circuit rated value         10 0/ V           • at DC         10 g/ 5 ms, 7.5g / 10 ms<		
product type designation         3RT2           General technical data	product brand name	SIRIUS
General technical data     S0       size of contactor product extension     No       • auxiliary switch     Yes       power loss (W) for rated value of the current     0.9 W       • at AC in hot operating state     0.9 W       • at AC in hot operating state per pole     0.3 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 method value     6 kV       • of auxiliary circuit rated value     6 kV       • at DC     10g / 5 ms, 7,5g / 10 ms       shock resistance with sine pulse     10g / 5 ms, 10g / 10 ms       • of the contactor typical     10 000 000       • of the contactor typical     10 000 000       • of the contactor typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 1	product designation	Power contactor
size of contactor     S0       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     0.9 W       • at AC in hot operating state     0.9 W       • at AC in hot operating state per pole     0.3 W       • without load current share typical     5.9 W       Insulation voltage     600 V       • of main circuit with degree of pollution 3 rated value     600 V       • of main circuit with degree of pollution 3 rated value     600 V       • of auxiliary circuit with degree of pollution 3 rated value     64 V       • of auxiliary circuit rated value     6 kV       • of auxiliary scircuit rated value     6 kV       • at DC     10g / 5 ms, 7,5g / 10 ms       shock resistance at rectangular impulse     10 g/ 5 ms, 7,5g / 10 ms       • at DC     10g / 5 ms, 7,5g / 10 ms       mechanical service life (operating cycles)     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added a	product type designation	3RT2
product extension         Image: mathematical state problematical state pr	General technical data	
• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current	size of contactor	SO
• auxiliary switchYespower loss [W] for rated value of the current	product extension	
power loss [W] for rated value of the current     0.9 W       e at AC in hot operating state     0.9 W       e at AC in hot operating state per pole     0.3 W       e without load current share typical     5.9 W       insulation voltage     690 V       e of main circuit with degree of pollution 3 rated value     690 V       value     690 V       surge voltage resistance     6 kV       e of main circuit rated value     6 kV       of anxiliary circuit rated value     6 kV       of auxiliary contrated value     6 kV       of auxiliary circuit rated value     6 kV       of auxiliary circuit rated value     6 kV       of auxiliary circuit rated value     6 kV       o auxiliary suiteh bioket typical     10 000 000       of the contactor with added auxiliary switch block typical     10 000 000       of the contactor w	<ul> <li>function module for communication</li> </ul>	No
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• at AC in hot operating state per pole0.3 W• without load current share typical5.9 Winsulation voltage690 V• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit rated value6 kV• of main circuit rated value6 kV• of auxiliary state by collage for safe isolation between coll and main contacts according to EN 60947-1shock resistance at rectangular impulse10g / 5 ms, 7.5g / 10 ms• at DC15g / 5 ms, 10g / 10 msmechanical service life (operating cycles)10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10/01/2009Ambient conditions2 000 mambient temperature-55 +60 °C<	power loss [W] for rated value of the current	
<ul> <li>without load current share typical</li> <li>5.9 W</li> <li>insulation voltage</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>auxiliary 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>for and main contracts according to EN 60947-1</li> <li>shock resistance at rectangular impulse</li> <li>at DC</li> <li>for contactor typical</li> <li>for contactor typical</li> <li>for contactor typical</li> <li>for contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>for ference code according to EC 81346-2</li> <li>Guo m</li> </ul> Installation altitude at height above sea level maximum ambient temperature <ul> <li>during sporage</li> <li>during sporage</li> <li>elative humidity minimum</li> <li>relative humidity minimum</li> <li>pative field condes-2-30</li> <li>gis %</li> </ul>	<ul> <li>at AC in hot operating state</li> </ul>	0.9 W
Insulation voltageImage: Support of the contactor with degree of pollution 3 rated valueSupport of main circuit with degree of pollution 3 rated valueSupport of main circuit with degree of pollution 3 rated valueSupport of main circuit with degree of pollution 3 rated valueSupport of main circuit rated value <th><ul> <li>at AC in hot operating state per pole</li> </ul></th> <th>0.3 W</th>	<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W
of main circuit with degree of pollution 3 rated value690 Vof auxiliary circuit with degree of pollution 3 rated value690 Vsurge voltage resistance690 V• of main circuit rated value6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coll and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse10g / 5 ms, 7,5g / 10 ms• at DC10g / 5 ms, 7,5g / 10 msshock resistance with sine pulse10 000 000• at DC15g / 5 ms, 10g / 10 msmechanical service life (operating cycles)10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2 000 mmistallation altitude at height above sea level maximum ambient temperature-25 +60 °C• during sporage-25 +60 °C• during sporage-25 +80 °Crelative humidity minimum mellation at the s5 °C according to IEC 60068-2-300 %	<ul> <li>without load current share typical</li> </ul>	5.9 W
• of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at DC       100 /5 ms, 7,5g / 10 ms         shock resistance with sine pulse       15g / 5 ms, 10g / 10 ms         • at DC       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with addee auxiliary switch block typical       10 000 000         • of the contactor with addee auxiliary switch block	insulation voltage	
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maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse <ul> <li>at DC</li> <li>btock resistance with sine pulse</li> <li>at DC</li> <li>at DC</li> <li>btock resistance life (operating cycles)</li> <li>of contactor typical</li> <li>at of the contactor with added electronically optimized auxiliary switch block typical</li> <li>btock typical</li> <li>at the contactor with added auxiliary switch block typical</li> </ul> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>btoch during operation</li> <li>c25 +60 °C</li> <li>c40 °C</li> <li>c55 +80 °C</li> <li>c75 +80 °C</li> <li>c75 +80 °C</li> <li>c75 +80 °C</li> <li>c75 +80 °C</li> <li>c10 %</li> <li>c10 %</li> <li>c25 +80 °C</li> <li>c10 %</li> <li>c10 %</li> <li>c10 %</li> <li>c10 %</li>	<ul> <li>of main circuit rated value</li> </ul>	6 kV
coil and main contacts according to EN 60947-1         shock resistance at rectangular impulse         • at DC       10g / 5 ms, 7,5g / 10 ms         shock resistance with sine pulse         • at DC       15g / 5 ms, 10g / 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         • 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       2 000 m         installation altitude at height above sea level maximum aubient temperature       -25 +60 °C         • 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       95 %	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at DC       10g / 5 ms, 7,5g / 10 ms         shock resistance with sine pulse       15g / 5 ms, 10g / 10 ms         • at DC       15g / 5 ms, 10g / 10 ms         mechanical service life (operating cycles)       0 000 000         • of contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added 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         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum atming operation       -25 +60 °C         • during operation       -25 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %		400 V
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<ul> <li>of contactor typical</li> <li>of the contactor 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>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>10/01/2009</li> <li>Ambient conditions</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>eduring storage</li> <li>relative humidity minimum</li> <li>relative humidity at 55 °C according to IEC 60068-2-30</li> <li>maximum</li> </ul>	• at DC	15g / 5 ms, 10g / 10 ms
<ul> <li>of the contactor 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>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>10/01/2009</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature         <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>during storage</li> <li>-55 +80 °C</li> </ul> </li> <li>relative humidity minimum         <ul> <li>10 %</li> <li>95 %</li> </ul> </li> </ul>	mechanical service life (operating cycles)	
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Ambient conditions         installation altitude at height above sea level maximum         ambient temperature         • during operation         • during storage         relative humidity minimum         relative humidity at 55 °C according to IEC 60068-2-30         95 %	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum       2 000 m         ambient temperature       -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 %	Substance Prohibitance (Date)	10/01/2009
ambient temperature       -25 +60 °C         • 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 %	Ambient conditions	
• 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 %	installation altitude at height above sea level maximum	2 000 m
• during storage     • -55 +80 °C     10 %     relative humidity at 55 °C according to IEC 60068-2-30     95 %     • during     • during storage     • during storage	ambient temperature	
relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         maximum       95 %	<ul> <li>during operation</li> </ul>	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 %	<ul> <li>during storage</li> </ul>	-55 +80 °C
maximum	relative humidity minimum	10 %
Main circuit		95 %
	Main circuit	

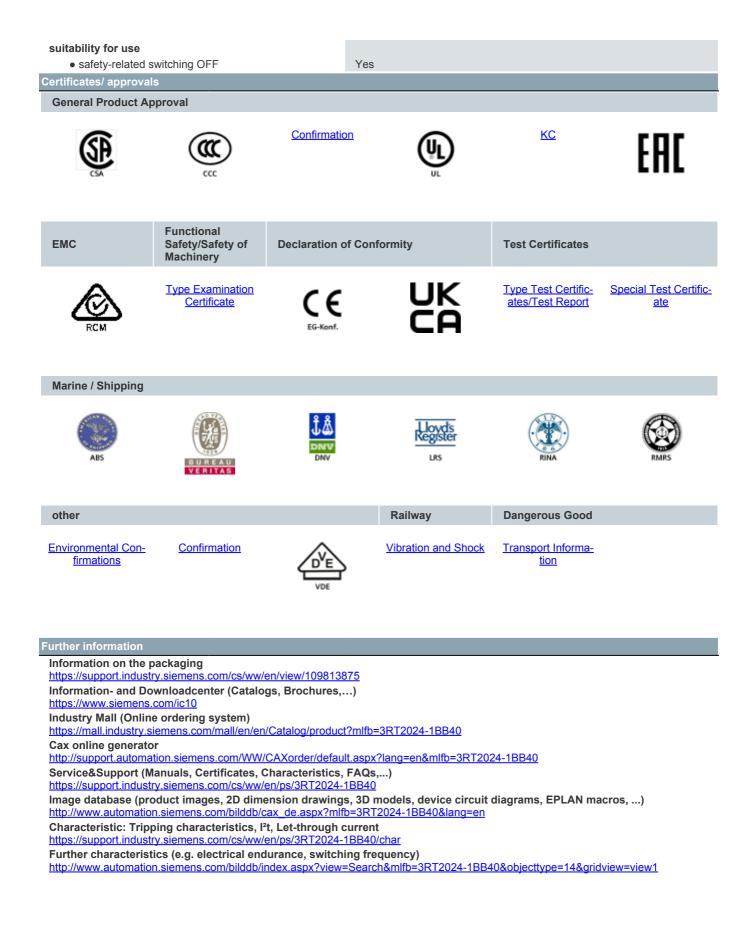
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C</li> </ul>	40 A
rated value <ul> <li>at AC-1</li> </ul>	
	40 A
— up to 690 V at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 60 °C	35 A
rated value	0071
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	12.5 A
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	35.2 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</li> </ul>	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	11.3 A
value — up to 690 V for current peak value n=20 rated	9 A
value	57
• at AC-6a	704
<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
— up to 500 V for current peak value n=30 rated value	7.6 A
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	7.6 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	5.5 A
• at 690 V rated value	5.5 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— 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
<ul> <li>— at 600 V rated value</li> <li>with 3 current paths in series at DC-1</li> </ul>	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 35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A

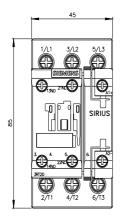
— at 600 V rated value	1.4 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 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	
• 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	7.5 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	7.5 kW
operating power for approx. 200000 operating cycles	
at AC-4	
<ul> <li>at 400 V rated value</li> </ul>	2.6 kW
<ul> <li>at 690 V rated value</li> </ul>	4.6 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	4.5 kVA
• up to 400 V for current peak value n=20 rated value	7.8 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	9.8 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>	6.5 kVA
<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	9 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>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	170 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	126 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	105 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	1 500 1/h
operating frequency	
<ul> <li>at AC-1 maximum</li> </ul>	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	DC
control supply voltage at DC	
<ul> <li>rated value</li> </ul>	24 V

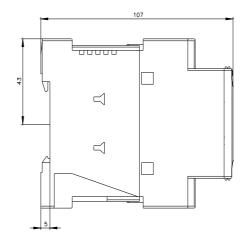
operating range factor control supply voltage rated

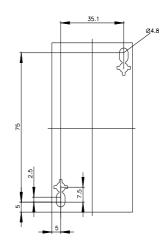
when after much and at DO	
value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	5.9 W
closing delay	50 470 m
• at DC	50 170 ms
opening delay	
• at DC	15 18 ms
arcing time	10 10 ms
control version of the switch 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	
• at 24 V rated value	10 A
at 48 V rated value	6 A
• at 60 V rated value	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
at 220 V rated value	1 A
<ul> <li>at 600 V rated value</li> </ul>	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	
<ul> <li>at 480 V rated value</li> </ul>	11 A
<ul> <li>at 600 V rated value</li> </ul>	11 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 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 / P600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
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	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN

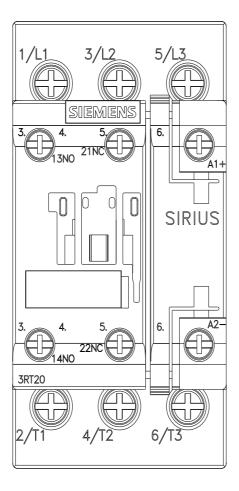
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<ul> <li>side-by-side mounting</li> </ul>	Yes
height	85 mm
width	45 mm
depth	107 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side — downwards	6 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	
for main current circuit	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	
<ul> <li>for main contacts</li> </ul>	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (16 12), 2x (14 8)
connectable conductor cross-section for main contacts	
• solid	1 10 mm <sup>2</sup>
• 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	
solid or stranded	0.5 2.5 mm <sup>2</sup>
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> <li>— solid or stranded</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>— solid of stranded</li> <li>— finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 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 (0.5 1.5 mm), 2x (0.75 2.5 mm) 2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
for main contacts	16 8
<ul> <li>for auxiliary contacts</li> </ul>	20 14
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
B10 value with high demand rate according to SN 31920	450 000
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
• with high demand rate according to SN 31920	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 a
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

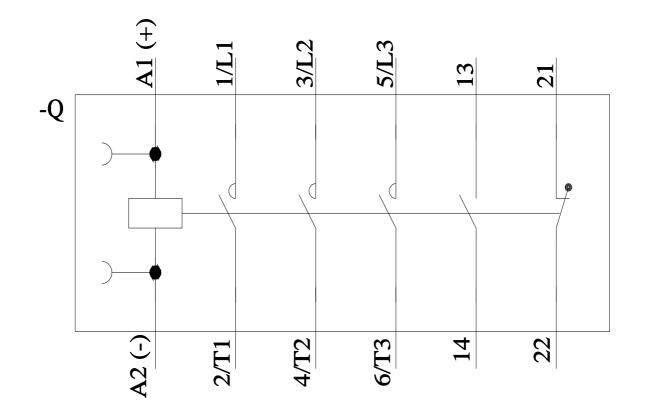












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