## SIEMENS

## Data sheet

## 3RT2015-2AH01



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 48 V AC, 50/60 Hz, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00,

product brand name         SIRIUS           product designation         Power contactor           general technical data         SIRI           General technical data         Size of contactor           size of contactor         S00           product type designation         No           • function module for communication         No           • function module for communication         No           • at AC in hot operating state         0.6 W           • at AC in hot operating state per pole         0.2 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 auxiliary circuit rated value         6 kV           • of main circuit with degree of pollution 3 rated value         600 V           • of main circuit with degree of pollution 3 rated value         6 kV           • of main circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • at AC         10.5g /5 ms, 4.2g	(A) (A)	
product type designation     3RT2       Genoral technical data     size of contactor       size of contactor     S00       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       0.6 W         • at AC in hot operating state per pole       0.2 W         • without load current share typical       4.2 W         insultation 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 auxiliary circuit rated value       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value <th>product brand name</th> <th>SIRIUS</th>	product brand name	SIRIUS
General lochnical data     S00       size of contactor     S00       product extension     • 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 prole     0.2 W       • without load current share typical     4.2 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     64 KV       • of main circuit rated value     64 KV       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     64 KV       • 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     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 main circuit rated value     6 kV       • of outactor tytelon     6,7g	product designation	Power contactor
size of contactor     S00       product extension <ul> <li>function module for communication</li> <li>auxiliary switch</li> <li>Yes</li> <li>power loss [W] for rated value of the current</li> <li>at AC in hot operating state</li> <li>0.6 W</li> <li>at AC in hot operating state per pole</li> <li>0.2 W</li> <li>without load current share typical</li> <li>4.2 W</li> <li>insulation voltage</li> <li>of main circuit with degree of pollution 3 rated value</li> <li>690 V</li> <li>surge voltage resistance</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit rated value</li> <li>6 kV</li> <li>at AC</li> <li>6.7g / 5 ms, 4.2g / 10 ms</li> <li>shock resistance at rectangular impulse</li> <li>at AC</li> <li>at AC</li> <li>for contactor typical</li> <li>30 000 000</li> <li>5 tool on the contactor with added electronically optimized auxiliary switch block 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>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 co</li></ul>	product type designation	3RT2
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     4.2 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     690 V       • of auxiliary circuit rated value     6 kV       • at AC     6.7g / 5 ms, 4.2g / 10 ms       shock resistance at rectangular impulse     10.5g / 5 ms, 6.6g / 10 ms       • at AC     10.5g / 5 ms, 6.6g / 10 ms       mechanical service life (operating cycles)     5 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added electronically optimized auxiliar	General technical data	
• 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 prole       0.2 W         • without load current share typical       4.2 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 rated value       64 V         • of contactor type for protective separation between       6.7g / 5 ms, 4.2g / 10 ms         shock resistance at rectangular impulse       6.7g / 5 ms, 6.6g / 10 ms         • of contactor typical       30 0	size of contactor	S00
• 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         • withbut load current share typical       4.2 W         insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6         • of main circuit rated value       6 kV         • of auxiliary circuit ated value       6 kV         • of auxiliary corcuit rated value       6 kV         • of auxiliary corcuit ated value       6 kV         • of auxiliary corcuit rated value       6 kV         • of auxiliary subte block bioseX-r1       400 V         shock resistance at rectangular impulse       6.7g / 5 ms, 4.2g / 10 ms         • at AC       10.5g / 5 ms, 6.6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of the contactor with added	product extension	
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       4.2 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 auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       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       6.7g / 5 ms, 4.2g / 10 ms         • at AC       10.5g / 5 ms, 6.6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • 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 added auxiliary switch block typical       10 000 000	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state0.6 W• at AC in hot operating state per pole0.2 W• without load current share typical4.2 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 auxiliary circuit rated value690 V• of auxiliary circuit rated value6 kV• of the contact rupular impulse6.7g / 5 ms, 6.6g / 10 ms• of the contactor with added electronically optimized30 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000<	auxiliary switch	Yes
• at AC in hot operating state per pole       0.2 W         • without load current share typical       4.2 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       690 V         • of main circuit rated value       690 V         • of main circuit rated value       64 V         • of main circuit rated value       64 KV         • of auxiliary circuit rated value       64 KV         • of auxiliary circuit rated value       66 KV         • of main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6,7g / 5 ms, 4,2g / 10 ms         • at AC       10,5g / 5 ms, 6,8g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of the contactor typical       30 000 000         • 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 added auxiliary switch block typical       10 000 000	power loss [W] for rated value of the current	
• without load current share typical4.2 Winsulation voltage690 V• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 Vsurge voltage resistance6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse6 kV• at AC6,7g / 5 ms, 4,2g / 10 msshock resistance with sine pulse30 000 000• at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles)30 000 000• 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 typical2 000 mambient conditions2 000 m	<ul> <li>at AC in hot operating state</li> </ul>	0.6 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       690 V         surge voltage resistance       690 V         • of main circuit rated value       690 V         • of main circuit rated value       64 kV         • of auxiliary circuit rated value       6 kV         • at AC       6,7g / 5 ms, 4,2g / 10 ms         • of contactor typical       30 000 000         • 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 blo	<ul> <li>at AC in hot operating state per pole</li> </ul>	0.2 W
• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 Vsurge voltage resistance6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse6,7g / 5 ms, 4,2g / 10 ms• at AC6,7g / 5 ms, 6,6g / 10 msshock resistance with sine pulse10,5g / 5 ms, 6,6g / 10 ms• at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles)30 000 000• 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 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 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2000 m• of the contactor with addee auxiliary switch block typical10 000 00• of the contactor with addee auxiliary switch block typical2000 m <td< th=""><th><ul> <li>without load current share typical</li> </ul></th><th>4.2 W</th></td<>	<ul> <li>without load current share typical</li> </ul>	4.2 W
• of auxiliary circuit with degree of pollution 3 rated value690 Vsurge voltage resistance6• of main circuit rated value6 kV• of auxiliary circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse6,7g / 5 ms, 4,2g / 10 ms• at AC6,7g / 5 ms, 4,2g / 10 msshock resistance with sine pulse • at AC10,5g / 5 ms, 6,6g / 10 ms• of contactor typical30 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 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 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2 000 m• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2 000 m• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typic	insulation voltage	
surge voltage resistance       6 kV         • 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       6,7g / 5 ms, 4,2g / 10 ms         • at AC       6,7g / 5 ms, 6,6g / 10 ms         shock resistance with sine pulse       10,5g / 5 ms, 6,6g / 10 ms         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of the contactor typical       5 000 000         • 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         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       2 000 m	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of main circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse • at AC6,7g / 5 ms, 4,2g / 10 msshock resistance with sine pulse • at AC6,7g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles) • of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical30 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2 Substance Prohibitance (Date)QAmbient conditions2 000 minstallation altitude at height above sea level maximum ambient temperature2 000 m	<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
• of auxiliary circuit rated value6 kVmaximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse400 V• at AC6,7g / 5 ms, 4,2g / 10 msshock resistance with sine pulse6,7g / 5 ms, 4,2g / 10 ms• at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles)30 000 000• of the contactor typical30 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 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 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 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2 000 m• of the contactor with added sector2 000 m• of the contactor with added sector2 000 m	surge voltage resistance	
maximum permissible voltage for protective separation between       400 V         coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6,7g / 5 ms, 4,2g / 10 ms         • at AC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       0.5g / 5 ms, 6,6g / 10 ms         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of contactor typical       30 000 000         • 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         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       2 000 m	<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 AC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)         • of contactor typical       30 000 000         • 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC6,7g / 5 ms, 4,2g / 10 msshock resistance with sine pulse10,5g / 5 ms, 6,6g / 10 ms• at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles)30 000 000• of contactor typical30 000 000• of the contactor with added electronically optimized auxiliary switch block typical5000 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 000 000• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m		400 V
shock resistance with sine pulse       0.0000000         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (operating cycles)       30 000 000         • of contactor typical       30 000 000         • 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)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m	shock resistance at rectangular impulse	
• at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (operating cycles).• of contactor typical30 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 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 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 typical2 000 m• of the conditions2 000 m• installation altitude at height above sea level maximum2 000 m	• at AC	6,7g / 5 ms, 4,2g / 10 ms
mechanical service life (operating cycles)       30 000 000         • of contactor typical       30 000 000         • 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       2 000 m	shock resistance with sine pulse	
<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>10 000 000</li> <li>reference code according to IEC 81346-2</li> <li>Q</li> <li>Substance Prohibitance (Date)</li> <li>10/01/2009</li> <li>Ambient conditions</li> <li>2 000 m</li> <li>ambient temperature</li> </ul>	• at AC	10,5g / 5 ms, 6,6g / 10 ms
of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature 2 000 m	mechanical service life (operating 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         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       2	<ul> <li>of contactor typical</li> </ul>	30 000 000
reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       2 000 m		5 000 000
Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       2 000 m	<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature       2 000 m	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum     2 000 m       ambient temperature     2 000 m	Substance Prohibitance (Date)	10/01/2009
ambient temperature	Ambient conditions	
· · · · · · · · · · · · · · · · · · ·	installation altitude at height above sea level maximum	2 000 m
• during operation -25 +60 °C	ambient temperature	
	during operation	-25 +60 °C
• during storage -55 +80 °C	during storage	-55 +80 °C
relative humidity minimum 10 %	relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 95 % 95 %		95 %
Main circuit	Main circuit	
number of poles for main current circuit 3	number of poles for main current circuit	3

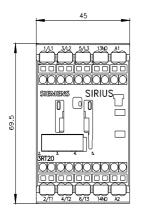
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	18 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	18 A
— up to 690 V at ambient temperature 60 °C rated	16 A
value	
• at AC-3	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-4 at 400 V rated value	6.5 A
at AC-5a up to 690 V rated value	15.8 A
• at AC-5b up to 400 V rated value	5.8 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	4 A 4 A
<ul> <li>— up to 400 V for current peak value n=20 rated value</li> <li>— up to 500 V for current peak value n=20 rated value</li> </ul>	3.8 A
— up to 500 V for current peak value n=20 rated value	3.6 A
• at AC-6a	5.0 A
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	2.7 A
— up to 200 V for current peak value n=30 rated value	2.7 A
— up to 500 V for current peak value n=30 rated value	2.5 A
— up to 690 V for current peak value n=30 rated value	2.4 A
minimum cross-section in main circuit at maximum AC-1 rated	2.5 mm <sup>2</sup>
value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	2.6 A
at 690 V rated value	1.8 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	

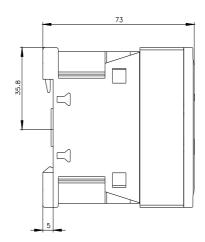
— at 24 V rated value	15 A
— at 60 V rated value	0.35 A
— at 110 V rated value	0.1 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 60 V rated value	3.5 A
— at 110 V rated value	0.25 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 60 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
● at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles at AC-	
4	4 45 1001
at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	1.5 kVA
• up to 400 V for current peak value n=20 rated value	2.7 kVA
• up to 500 V for current peak value n=20 rated value	3.3 kVA
up to 690 V for current peak value n=20 rated value	4.3 kVA
operating apparent power at AC-6a	4 10/0
up to 230 V for current peak value n=30 rated value	1 kVA
• up to 400 V for current peak value n=30 rated value	1.8 kVA
• up to 500 V for current peak value n=30 rated value	2.2 kVA
up to 690 V for current peak value n=30 rated value     short-time withstand current in cold operating state up to	2.9 kVA
40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	120 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	86 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 10 s switching at zero current maximum	67 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	52 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	43 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	48 V
• at 60 Hz rated value	48 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1

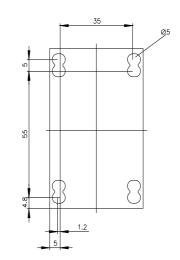
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	27 VA
• at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
<ul> <li>at 230 V rated value</li> </ul>	10 A
<ul> <li>at 400 V rated value</li> </ul>	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
<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	
• at 24 V rated value	10 A
<ul> <li>at 48 V rated value</li> </ul>	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	4.8 A
at 600 V rated value	6.1 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
for 3-phase AC motor	4.5 hz
- at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
- at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	

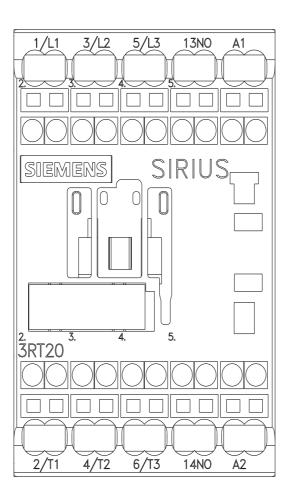
• for short-circuit protection of the main circuit	
- with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
- with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting     height	Yes 70 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting	
— 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	6 mm
— downwards	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>	spring-loaded terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 4 mm <sup>2</sup> )
solid or stranded	2x (0,5 4 mm <sup>2</sup> )
finely stranded with core end processing	2x (0.5 2.5 mm <sup>2</sup> )
finely stranded without core end processing	2x (0.5 2.5 mm²)
connectable conductor cross-section for main contacts <ul> <li>solid</li> </ul>	0.5 4 mm²
	0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup>
<ul> <li>stranded</li> <li>finally stranded with core and processing</li> </ul>	
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm² 0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 4 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0,5 4 mm²)
— finely stranded with core end processing	2x (0.5 2.5 mm <sup>2</sup> )
— finely stranded without core end processing	2x (0.5 2.5 mm <sup>2</sup> )
for AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross	
section	
• for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
product function	X
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes; with 3RH29

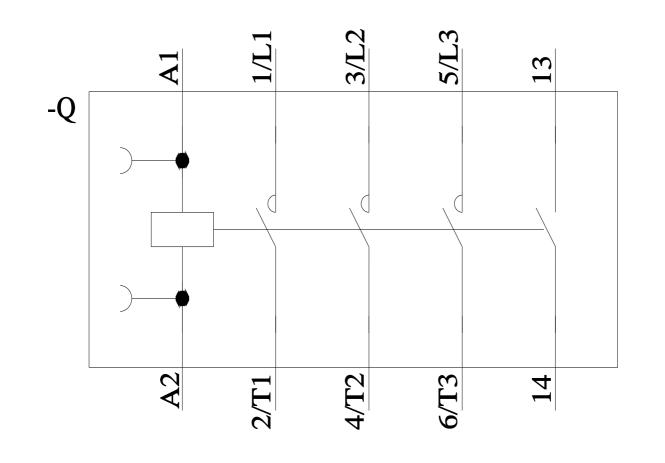
B10 value with high de			000		
	emand rate according to SN	I 31920 1 000	000		
proportion of danger	rous failures				
<ul> <li>with low deman</li> </ul>	d rate according to SN 319	20 40 %			
<ul> <li>with high deman</li> </ul>	nd rate according to SN 319	920 73 %			
failure rate [FIT] with le	ow demand rate according	to SN 31920 100 F	ΊΤ		
T1 value for proof test 61508	value for proof test interval or service life according to IEC 508				
protection class IP on the front according to IEC 60529		EC 60529 IP20			
touch protection on the front according to IEC 60529		finger	-safe, for vertical contac	t from the front	
suitability for use					
<ul> <li>safety-related s</li> </ul>	witching OFF	Yes			
ertificates/ approvals	5				
General Product Ap	proval				
(SP)		<u>Confirmation</u>		KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confor	mity	Test Certificates	
RCM	Type Examination Cer- tificate	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	<u>Special Test Certific</u> <u>ate</u>
Marine / Shipping					
ABS	BUREAU		Lloyds Register uis	PRS	RINA
Marine / Shipping	other			Railway	Environment
	<u>Confirmation</u>	UDE VDE	<u>Confirmation</u>	Vibration and Shock	Environmental Con firmations
Siemens has decided	d to exit the Russian mark com/global/en/pressrelease	siemens-wind-down-russ	sian-business		
Siemens has decided https://press.siemens. Siemens is working Please contact your lo EAC relevant market ( Information on the pa	com/global/en/pressrelease on the renewal of the curr ocal Siemens office on the s (other than the sanctioned B ackaging	ersteinens-wind-down-russ ent EAC certificates. tatus of validity of the EAC EAEU member states Rus	C certification if you inter	nd to import or offer to supp	bly these products to a
Siemens has decided https://press.siemens. Siemens is working Please contact your lo EAC relevant market ( Information on the pa https://support.industry nformation- and Dov	com/global/en/pressrelease on the renewal of the curr ocal Siemens office on the s (other than the sanctioned B ackaging y.siemens.com/cs/ww/en/vi wnloadcenter (Catalogs, E	ersiemens-wind-down-russ ent EAC certificates. tatus of validity of the EAC EAEU member states Rus ew/109813875	C certification if you inter	nd to import or offer to supp	bly these products to a
Siemens has decided https://press.siemens. Siemens is working of Please contact your lo EAC relevant market ( Information on the p https://support.industry nformation- and Dow https://www.siemens.co ndustry Mall (Online https://mall.industry.sie	com/global/en/pressrelease on the renewal of the curr ocal Siemens office on the s (other than the sanctioned E ackaging y.siemens.com/cs/ww/en/vi wnloadcenter (Catalogs, E com/ic10 e ordering system) emens.com/mall/en/en/Cata	ersteinens-wind-down-russ ent EAC certificates. tatus of validity of the EAC EAEU member states Rus ew/109813875 Brochures,)	C certification if you inter sia or Belarus).	nd to import or offer to supp	bly these products to a
Siemens has decided https://press.siemens. Siemens is working of Please contact your lo EAC relevant market ( nformation on the pa https://support.industry mformation- and Dow nttps://www.siemens.co ndustry Mall (Online https://mall.industry.sid Cax online generator http://support.automati Service&Support (Ma	com/global/en/pressrelease on the renewal of the curr ocal Siemens office on the s (other than the sanctioned E ackaging y.siemens.com/cs/ww/en/vi wnloadcenter (Catalogs, E com/ic10 ordering system) emens.com/mall/en/en/Cata r ion.siemens.com/WW/CAX anuals, Certificates, Chara	existemens-wind-down-russ ent EAC certificates. tatus of validity of the EAC EAEU member states Rus ew/109813875 Brochures,) alog/product?mlfb=3RT20 order/default.aspx?lang=e acteristics, FAQs,)	C certification if you inter sia or Belarus). <u>15-2AH01</u>		bly these products to a
Siemens has decided https://press.siemens. Siemens is working of Please contact your lo EAC relevant market ( information on the part https://support.industry information- and Dow https://www.siemens.co industry Mall (Online https://mall.industry.sie Cax online generator http://support.automat Service&Support (Ma https://support.industry mage database (pro	com/global/en/pressrelease on the renewal of the curr ocal Siemens office on the s (other than the sanctioned E ackaging y.siemens.com/cs/ww/en/vi wnloadcenter (Catalogs, E com/ic10 e ordering system) emens.com/mall/en/en/Cata r ion.siemens.com/WW/CAX anuals, Certificates, Chara y.siemens.com/cs/ww/en/ps duct images, 2D dimensio	existemens-wind-down-russ ent EAC certificates. tatus of validity of the EAC EAEU member states Rus ew/109813875 Brochures,) alog/product?mlfb=3RT20 order/default.aspx?lang=e acteristics, FAQs,) 5/3RT2015-2AH01 on drawings, 3D models	C certification if you intersia or Belarus). <u>15-2AH01</u> en&mlfb=3RT2015-2AH		bly these products to a
https://press.siemens. Siemens is working of Please contact your lo EAC relevant market ( information on the pantips://support.industry information- and Down https://support.industry information- and Down https://www.siemens.co industry Mall (Online https://mall.industry.sie Cax online generator http://support.automation Service&Support (Ma https://support.industry mage database (pro- http://www.automation Characteristic: Tripp	com/global/en/pressrelease on the renewal of the curr ocal Siemens office on the s (other than the sanctioned E ackaging y.siemens.com/cs/ww/en/vi wnloadcenter (Catalogs, E com/ic10 o ordering system) emens.com/mall/en/en/Cata r ion.siemens.com/WW/CAX anuals, Certificates, Chara y.siemens.com/cs/ww/en/ps	e/siemens-wind-down-russ ent EAC certificates. tatus of validity of the EAC EAEU member states Rus ew/109813875 Brochures,) alog/product?mlfb=3RT20 order/default.aspx?lang=e acteristics, FAQs,) s/3RT2015-2AH01 on drawings, 3D models. le.aspx?mlfb=3RT2015-2. t-through current	C certification if you intersia or Belarus). <u>15-2AH01</u> en&mlfb=3RT2015-2AH		bly these products to a











last modified:

2/10/2023 🖸