## SIEMENS

## Data sheet

## 3RT2025-1AT60



power contactor, AC-3e/AC-3, 17 A, 7.5 kW / 400 V, 3-pole, 600 V AC, 60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

product brand name         SIRUS           product besignation         Power contactor           General technical data         SRT2           Central technical data         S0           product type designation         S0           exaction module for communication         No           • auxiliary switch         Yes           power loss (V) for rated value of the current         -           • at AC in hot operating state projel         0.6 W           • without load current share typical         2.1 W           insulation voltage         690 V           • of main circul with degree of pollution 3 rated value         690 V           • of main circul with degree of pollution 3 rated value         690 V           • of main circul rated value         64V V           • of main circul rated value         64V V           • of main circul rated value         64V V           • of auxiling vicicul rated value         64V V           • at AC         7.5g / 5 ms, 4.7g / 10 ms           shock resistance with sine pulse         0 000 000           • of conatactor with addeel		
product type designation         3RT2           General tochnical data	product brand name	SIRIUS
General technical data     50       size of contactor     50       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     1.8 W       • at AC in hot operating state per pole     0.6 W       • 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 with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     64 KV       • of auxiliary circuit with degree of pollution 3 rated value     64 KV       • of auxiliary circuit rated value     6 kV       • at AC     7.5g / 5 ms. 4.7g / 10 ms       shock resistance with sine pulse     11.8g / 5 ms. 7.4g / 10 ms       • at AC     11.8g / 5 ms. 7.4g / 10 ms       mechanical service life (operating cycles)     0 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical <th>product designation</th> <th>Power contactor</th>	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     1.8 W       • at AC in hot operating state per pole     0.6 W       • without load current share typical     2.1 W       insulation voltage     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 auxiliary oricuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • of auxiliary circuit rated value     7.5g / 5 ms, 7.4g / 10 ms       mechanical service life (operating cycles)     10 000 000       • of the contactor with added auxiliary switch blo	product type designation	3RT2
product extension       No         • function module for communication       No         • auxiliary switch       Yes         power loss (W) for rated value of the current       1.8 W         • at AC in hot operating state       1.8 W         • at AC in hot operating state prole       0.6 W         • without load current share typical       2.1 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 with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       64 V         • of auxiliary circuit with degree of pollution 3 rated value       64 V         • of auxiliary circuit rated value       100 V         shock resistance with sine pulse       11.8 y 5 ms, 7.4g / 10 ms         • at AC       7.5g / 5 ms, 4.7g / 10 ms         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000	General technical data	
• function module for communicationNo• auxiliary switchYespower loss [W] for rated value of the current• at AC in hot operating state1.8 W• at AC in hot operating state per pole0.6 W• without load current share typical2.1 Winsulation voltage690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value64 V• of auxiliary circuit rated value6 kV• of auxiliary sitte block10.00 V• at AC11.8g / 5 ms, 7.4g / 10 msmechanical service life (operating cycles)10 000 000• of the contactor with added electronically optimized5000 000• of the contactor with added electronically optimized10 000 000• of the contactor with added electronically optimized10 000 000• of the contactor with added electronically optimized2000 mambient temperature2000	size of contactor	S0
• auxiliary switch         Yes           power loss [W] for rated value of the current         1.8 W           • at AC in hot operating state per pole         0.6 W           • at AC in hot operating state per pole         0.6 W           • without load current share typical         2.1 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         64 V           • of main circuit rated value         64 V           • of main circuit rated value         64 V           • of auxiliary circuit rated value         60 V           • ot auxiliary surge for protective separation between         7.5g /5 ms, 4.7g / 10 ms           • at AC         11.8g /5 ms, 7.4g / 10 ms           • ot	product extension	
power loss [W] for rated value of the current     I.8 W       • at AC in hot operating state prole     0.6 W       • at AC in hot operating state prole     0.6 W       • without load current share typical     2.1 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     680 V       • of auxiliary circuit rated value     6 kV       • at AC     7,5g / 5 ms, 4,7g / 10 ms       shock resistance with sine pulse     11,8g / 5 ms, 7,4g / 10 ms       • at AC     11,8g / 5 ms, 7,4g / 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	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state1.8 W• at AC in hot operating state per pole0.6 W• without load current share typical2.1 WInsulation voltage6 main circuit with degree of pollution 3 rated value690 V• of main circuit with degree of pollution 3 rated value690 V• of main circuit rated value690 V• of main circuit rated value690 V• of main circuit rated value6 kV• of main circuit rated value6 kV• of main circuit rated value6 kV• of auxiliary subce per protective separation between coli and main contacts according to EN 60947-1• bick resistance at rectangular impulse7.5g / 5 ms, 7.4g / 10 ms• at AC7.5g / 5 ms, 7.4g / 10 ms• at AC10 000 000• of contactor typical10 000 000• of the contactor with added electronicality optimized auxiliary switch block typical5 000 000• of the contactor typical10 000 000• of the contactor typical2 000 mmathition altitude at height above sea level maximum2 000 m• abilent conditions-25 +60 °C• during operation-25 +60 °C• during storage-25 +60 °C• during storage50 % %	auxiliary switch	Yes
• at AC in hot operating state per pole0.6 W• without load current share typical2.1 WInsullation 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 rated value680 V• of main circuit rated value64 V• of main circuit rated value64 V• of auxiliary circuit rated value64 V• of contactor fue for protective separation between400 V• at AC7.5g / 5 ms, 4.7g / 10 msshock resistance at rectangular impulse11.8g / 5 ms, 7.4g / 10 ms• at AC11.8g / 5 ms, 7.4g / 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 typical2000 mambient conditions	power loss [W] for rated value of the current	
• without load current share typical       2.1 W         insulation voltage       600 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       690 V         • of main circuit rated value       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       7,5g / 5 ms, 4,7g / 10 ms         shock resistance life (operating cycles)       10 000 000         • of contactor typical       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 added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000	<ul> <li>at AC in hot operating state</li> </ul>	1.8 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       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       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       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         reference code according to EC 81346-2       Q         Substance Prohibitance (Date)       2000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C	<ul> <li>at AC in hot operating state per pole</li> </ul>	0.6 W
• of main circuit with degree of pollution 3 rated value690 V• of auxiliary circuit with degree of pollution 3 rated value690 Vsurge voltage resistance690 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 AC7,5g / 5 ms, 4,7g / 10 ms• at AC7,5g / 5 ms, 7,4g / 10 msshock resistance with sine pulse • at AC10 000 000• of the contactor with added electronically optimized auxiliary switch block typical10 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 typical2 000 m• of the contactor with added auxiliary switch block typical2 000 m• of the information2 000 mambient temperature • during peration-25 +60 °C• during storage-55 +60 °C• during storage-55 +60 °C• during storage-55 +60 °C• during storage-55 +60 °C	<ul> <li>without load current share typical</li> </ul>	2.1 W
• of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       7,5g / 5 ms, 4,7g / 10 ms         • at AC       7,5g / 5 ms, 7,4g / 10 ms         shock resistance with sine pulse       10 000 000         • of contactor typical       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 added auxiliary switch block typical       10 000 000         • of polibitiance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during storage <t< th=""><th>insulation voltage</th><th></th></t<>	insulation voltage	
surge voltage resistance       6         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse       11,8g / 5 ms, 7,4g / 10 ms         • at AC       11,8g / 5 ms, 7,4g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized       2000 000         auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10/01/2009         Ambient conditions       2000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -55 +60 °C	<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 AC7,5g / 5 ms, 4,7g / 10 msshock resistance with sine pulse • at AC7,5g / 5 ms, 4,7g / 10 msshock resistance with sine pulse • at AC11,8g / 5 ms, 7,4g / 10 msof contactor typical10 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 mmathient conditions2000 minstallation altitude at height above sea level maximum ambient temperature 	<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 impulse • at AC7,5g / 5 ms, 4,7g / 10 msshock resistance with sine pulse • at AC7,5g / 5 ms, 7,4g / 10 msmechanical service life (operating cycles) • 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 typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2000 n00• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical000 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 auxiliar	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       7,5g / 5 ms, 4,7g / 10 ms         • at AC       7,5g / 5 ms, 7,4g / 10 ms         shock resistance with sine pulse       11,8g / 5 ms, 7,4g / 10 ms         • at AC       11,8g / 5 ms, 7,4g / 10 ms         mechanical service life (operating cycles)       10 000 000         • 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         ambient temperature       -25 +60 °C         • during operation       -25 +80 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30       95 %	<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       7,5g / 5 ms, 4,7g / 10 ms         shock resistance with sine pulse         • at AC       11,8g / 5 ms, 7,4g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of contactor typical       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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC7,5g / 5 ms, 4,7g / 10 msshock resistance with sine pulse • at AC11,8g / 5 ms, 7,4g / 10 msmechanical service life (operating cycles) • of contactor typical10 000 000• of 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 typical2000 000• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• ambient conditions2 000 m• during operation • during operation • during storage-25 +60 °C• during storage-25 +60 °C• during storage-55 +80 °C• relative humidity minimum10 %		400 V
shock resistance with sine pulse       11,8g / 5 ms, 7,4g / 10 ms         mechanical service life (operating 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       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         auxing storage       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %	shock resistance at rectangular impulse	
• at AC11,8g / 5 ms, 7,4g / 10 msmechanical service life (operating 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 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 typical0• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical0• of the contactor up the contactor with added auxiliary switch block typical0• of the contactor up t	• at AC	7,5g / 5 ms, 4,7g / 10 ms
mechanical service life (operating 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       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       -25 +60 °C         • during operation       -25 +80 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %	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>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>installation altitude at height above sea level maximum</li> <li>2 000 m</li> <li>ambient temperature         <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>stallative humidity minimum</li> <li>10 %</li> </ul> </li> </ul>	• at AC	11,8g / 5 ms, 7,4g / 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>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>installation altitude at height above sea level maximum</li> <li>2 000 m</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</li> <li>10 %</li> </ul>	mechanical service life (operating cycles)	
auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-25 +60 °C• during operation-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-3095 %	<ul> <li>of contactor typical</li> </ul>	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       -25 +60 °C         • during operation       -25 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %		5 000 000
Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         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       95 %	<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       -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 %	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 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 %	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     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       95 %	installation altitude at height above sea level maximum	2 000 m
• during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30     95 %	ambient temperature	
relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 %	during storage	-55 +80 °C
	relative humidity minimum	10 %
maximum	relative humidity at 55 °C according to IEC 60068-2-30 maximum	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	5
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	40 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	40 A
value	
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-3e	
— at 400 V rated value	17 A
— at 500 V rated value	17 A
— at 690 V rated value	13 A
• at AC-4 at 400 V rated value	15.5 A
• at AC-5a up to 690 V rated value	35.2 A
• at AC-5b up to 400 V rated value	14.1 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	11.4 A
— up to 400 V for current peak value n=20 rated value	11.4 A
— up to 500 V for current peak value n=20 rated value	11.4 A
— up to 690 V for current peak value n=20 rated value	11.3 A
● 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>	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	7.7 A
• at 690 V rated value	7.7 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 60 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 60 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 60 V rated value	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 60 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 60 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-2 at 400 V rated value	7.5 kW
• at AC-3	
- at 230 V rated value	4 kW
— at 200 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
	11 kW
— at 690 V rated value	
• at AC-3e	4 1001
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
operating power for approx. 200000 operating cycles at AC- 4	
at 400 V rated value	3.5 kW
at 690 V rated value	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
• up to 500 V for current peak value n=20 rated value	9.9 kVA
• up to 690 V for current peak value n=20 rated value	13.6 kVA
operating apparent power at AC-6a	
operating apparent power at Ao-oa	
<ul> <li>up to 230 V for current neak value n=30 rated value</li> </ul>	3 kVA
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	3 kVA 5 2 kVA
• up to 400 V for current peak value n=30 rated value	5.2 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	5.2 kVA 6.6 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	5.2 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	5.2 kVA 6.6 kVA
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<ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> </ul>	5.2 kVA 6.6 kVA 9.1 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>short-time withstand current in cold operating state up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 5 s switching at zero current maximum</li> </ul>	5.2 kVA 6.6 kVA 9.1 kVA 225 A; Use minimum cross-section acc. to AC-1 rated value 225 A; Use minimum cross-section acc. to AC-1 rated value
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	-
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 60 Hz rated value	600 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 60 Hz	0.85 1.1
<ul> <li>apparent pick-up power of magnet coil at AC</li> <li>at 60 Hz</li> </ul>	73 VA
inductive power factor with closing power of the coil	
• at 60 Hz	0.76
apparent holding power of magnet coil at AC	
● at 60 Hz	7.2 VA
inductive power factor with the holding power of the coil	
• at 60 Hz	0.28
closing delay	0
• at AC	8 40 ms
opening delay • at AC	4 16 ms
arcing time	4 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact number of NO contacts for auxiliary contacts instantaneous	1
contact	
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
<ul> <li>at 60 V rated value</li> <li>at 110 V rated value</li> </ul>	6 A
at 110 V rated value     at 125 V rated value	3 A 2 A
at 220 V rated value	1A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	14 A
at 600 V rated value	17 A
yielded mechanical performance [hp]	
for single-phase AC motor	4 hr
— at 110/120 V rated value	1 hp
— at 230 V rated value	3 hp
<ul> <li>for 3-phase AC motor</li> <li>— at 200/208 V rated value</li> </ul>	3 hn
— at 220/200 V rated value	3 hp 5 hp
— at 460/480 V rated value	10 hp
— at 575/600 V rated value	15 hp
	iv ip

contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	A00071000
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (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 Yes
side-by-side mounting	85 mm
height width	45 mm
	97 mm
depth	97 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
<ul> <li>for live parts</li> </ul>	
— 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     solid or stranded	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
connectable conductor cross-section for main contacts	$2 \times (1 \dots 2.0 \text{ min}), 2 \times (2.0 \dots 0 \text{ min}), 1 \times 10 \text{ min}$
solid	1 10 mm²
	1 10 mm <sup>-</sup>
<ul> <li>stranded</li> <li>finally stranded with core and proceeding</li> </ul>	
finely stranded with core end processing	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 mm <sup>2</sup>
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)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	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
suitability for use safety-related switching OFF	Yes

B10 value with high d	lemand rate according to SN	1 31920 45	0 000		
proportion of dange	rous failures				
<ul> <li>with low deman</li> </ul>	nd rate according to SN 319	20 40	) %		
<ul> <li>with high dema</li> </ul>	and rate according to SN 319	920 73	3 %		
failure rate [FIT] with	low demand rate according	to SN 31920 10	0 FIT		
T1 value for proof tes 61508	t interval or service life acco	rding to IEC 20	a		
protection class IP of	on the front according to I	EC 60529 IP.	20		
touch protection on	the front according to IEC	<b>60529</b> fin	ger-safe, for vertical contact	from the front	
Certificates/ approval	S				
General Product Ap	proval				
SP SA	CCC	<u>Confirmation</u>		KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Con	formity	Test Certificates	
RCM	Type Examination Cer- tificate	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report
Marine / Shipping					
ABS	B UREAU VERITAS		Lloyd's Register uis	RINA	RMRS
other		Railway	Environment		
<u>Confirmation</u>		Vibration and Shock	<u>Environmental Con-</u> <u>firmations</u>		
	ed to exit the Russian mark				
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Information on the packaging					
https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,)					
https://www.siemens. Industry Mall (Online	com/ic10		F2025-1AT60		
Cax online generato	r				
			g=en&mlfb=3RT2025-1AT6	<u>2</u>	
	lanuals, Certificates, Chara ry.siemens.com/cs/ww/en/ps				

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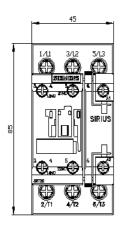
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2025-1AT60&lang=en

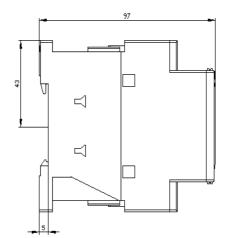
Characteristic: Tripping characteristics, I2t, Let-through current

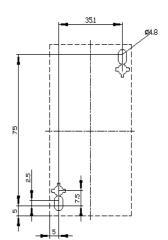
 https://support.industry.siemens.com/cs/ww/en/ps/3RT2025-1AT60/char

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

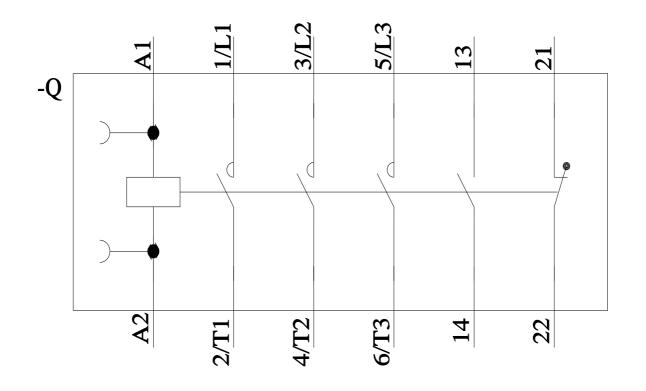
 http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2025-1AT60&objecttype=14&gridview=view1











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