## SIEMENS

## Data sheet

## 3RT2015-1AP01



Power contactor, AC-3 7 A, 3 kW / 400 V 1 NO, 230 V AC, 50 / 60 Hz 3-pole, Size S00 screw terminal

product disignation     Sindos       product disignation     3RT2       Ganaral technical data     size of contactor       is contactor     S00       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current at AC in hot operating state     0.4 W       • per pole     0.4 W       • per pole     0.4 W       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     10.5g / 5 ms, 6.8g / 10 ms       mechanical service life (switching cycles)     30 000 00       • of the contactor with added auxiliary switch block typical     10 000 00       usiliary switch block typical     0 000 00       • of the contactor with added auxiliary switch block typical     10 000 00       • of the contactor with added auxiliary switch block typical </th <th>product brand name</th> <th>SIRIUS</th>	product brand name	SIRIUS
product type designation         3RT2           General technical data	•	
General technical 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 at AC in hot operating site     0.4 W       • per pole     0.4 W       power loss [W] for rated value of the current without load current share typical     4.2 W       surge voltage resistance     6 kV       • of auxiliary circuit rated value     6 kV       • of auxiliary switch biox to EN 60947-11     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 (switching 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       • othe contactor with added auxiliary switch block typical     0 00 000       • othe contactor with added auxiliary switch block typical     2 000 m       minstallation altitude a		
size of contactor     S00       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current at AC in hot operating state     1.2 W       • per pole     0.4 W       power loss [W] for rated value of the current without load current share typical     6 kV       ever pole     0.4 W       over loss [W] for rated value of the current without load current share typical     6 kV       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     6,7g / 5 ms, 4,2g / 10 ms       shock resistance with sine pulse     at AC       • at AC     10,5g / 5 ms, 6,6g / 10 ms       mechanical service life (switching cycles)     0 000 000       • of the contactor with added lectronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added lectronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added lectronically optimized auxiliary switch block typical     2 000 m       mothent temperature     2 000 m		51(12
product extension         No           • function module for communication         No           • auxiliary switch         Yes           power loss [W] for rated value of the current at AC in hot operating state         1.2 W           • per pole         0.4 W           power loss [W] for rated value of the current without load current share typical         4.2 W           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           • of an auxiliary circuit rated value         6 kV           • of an auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • at AC         10,5g / 5 ms, 4,2g / 10 ms           shock resistance with sine pulse         • at AC           • at AC         10,5g / 5 ms, 6,6g / 10 ms           mechanical service life (switching cycles)         • of contactor typical           • of the contactor with added electronically optimized auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary switch block		<u>600</u>
• function module for communication       No         • auxiliary switch       Yes         power loss [W] for rated value of the current at AC in hot operating state       1.2 W         • per pole       0.4 W         power loss [W] for rated value of the current without load current share typical       0.4 W         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for safe isolation between coll and main contacts acc. 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         mechanical service life (switching cycles)       30 000 000         • of the contactor with added electronically optimized auxilary 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       01.10.2009 00:00:00         Ambient temperature       Q         of uning operation       -25 +60 °C         • during operation       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         • during storage		500
• auxiliary switch       Yes         power loss [W] for rated value of the current at AC in hot operating state       1.2 W         • per pole       0.4 W         power loss [W] for rated value of the current without load current share typical       4.2 W         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       6,7g / 5 ms, 6,6g / 10 ms         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (switching 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         reference code ac. to IEC 81346-2       Q         Substance Prohibitance (Date) </td <td>•</td> <td></td>	•	
power loss [W] for rated value of the current at AC in hot       1.2 W         • per pole       0.4 W         power loss [W] for rated value of the current without       4.2 W         load current share typical       4.2 W         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         maximum permissible voltage for safe isolation between coli and main contacts acc. 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         mechanical service life (switching 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       2000 m         methation 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         Main circuit       3         number of Poles for main current circuit       3 <td></td> <td></td>		
operating state       0.4 W         oper loss IWJ for rated value of the current without       4.2 W         surge voltage resistance       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1       400 V         shock resistance at rectangular impulse       6 kV         • at AC       6,7g / 5 ms, 4,2g / 10 ms         shock resistance with sine pulse       000 000         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (switching cycles)       000000         • 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       2 000 m         ambient conditions       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +80 °C         Main circuit       3         number of Poles for main current circuit       3         number of NO contacts for main contacts       3		
power loss [W] for rated value of the current without load current share typical       4.2 W         surge voltage resistance       6         of main circuit rated value       6 kV         e of auxiliary circuit rated value       6 kV         maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1       400 V         shock resistance at rectangular impulse       6,7g / 5 ms, 4,2g / 10 ms         e at AC       6,7g / 5 ms, 6,6g / 10 ms         shock resistance with sine pulse       10,5g / 5 ms, 6,6g / 10 ms         e of contactor typical       30 000 000         e of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         e of the contactor with added auxiliary switch block typical       10 000 000         reference code acc. to IEC 81346-2       Q         Substance Prohibitance (Date)       01.10.2009 00:00:00         Ambient conditions       -25 +60 °C         e during operation       -25 +60 °C         e during storage       -55 +80 °C         Main circuit       3         number of NO contacts for main contacts       3		1.2 W
load current share typical         surge voltage resistance         • of main circuit rated value         • of auxiliary circuit rated value         6 kV         maximum permissible voltage for safe isolation between coll and main contacts acc. to EN 60947-1         shock resistance at rectangular impulse         • at AC         shock resistance with sine pulse         • at AC         shock resistance vith sine pulse         • at AC         • of contactor typical         • of the contactor typical         • 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         • of the contactor with added auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • fubent conditions         installation altitude at height above sea level maximum         2 000 m         ambient temperature • during operation         • during storage         • of noe for main current circuit         3         functor         number of NO contacts for main contacts	· · ·	0.4 W
• of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for safe isolation between coll and main contacts acc. 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       0,5g / 5 ms, 6,6g / 10 ms         • at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (switching 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       0 1.10.2009 00:00:00         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 +60 °C         • during storage       3		4.2 W
• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1400 Vshock resistance at rectangular impulse400 V• 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 typical30 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code acc. to IEC 81346-2 Mubent conditionsQSubstance Prohibitance (Date)2 000 mambient temperature • during operation • during storage2 000 mambient temperature • during storage-25 +60 °C• Main circuit3number of poles for main current circuit3number of NO contacts for main contacts3	surge voltage resistance	
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1       400 V         shock resistance at rectangular impulse <ul> <li>at AC</li> <li>6,7g / 5 ms, 4,2g / 10 ms</li> </ul> shock resistance with sine pulse <ul> <li>at AC</li> <li>for contactor typical</li> <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>full the contactor with added auxiliary switch block typical</li> <li>of the contactor (Date)</li> <li>01.10.2009 00:00:00</li> </ul> Ambient conditions           installation altitude at height above sea level maximum <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>            Main circuit         3           number of poles for main current circuit         <li>3</li> </li>	<ul> <li>of main circuit rated value</li> </ul>	6 kV
coil and main contacts acc. to EN 60947-1shock resistance at rectangular impulse• at AC6,7g / 5 ms, 4,2g / 10 msshock resistance with sine pulse• at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (switching 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 000 000• 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 typical000000• of the contactor with added auxiliary switch block typical0000000• of the contactor with added auxiliary switch block typical000000000000000000000000000000000	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at AC6,7g / 5 ms, 4,2g / 10 msshock resistance with sine pulse • at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (switching cycles) • of contactor typical30 000 000• 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 000reference code acc. to IEC 81346-2QSubstance Prohibitance (Date)01.10.2009 00:00:00Ambient conditions installation altitude at height above sea level maximum • during operation • during storage2 000 mMain circuit number of poles for main current circuit number of NO contacts for main contacts3		400 V
shock resistance with sine pulse       0.50 / 5 ms, 6,6g / 10 ms         e at AC       10,5g / 5 ms, 6,6g / 10 ms         mechanical service life (switching 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 acc. to IEC 81346-2       Q         Substance Prohibitance (Date)       01.10.2009 00:00:00         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         Main circuit       3         number of poles for main current circuit       3         number of NO contacts for main contacts       3	shock resistance at rectangular impulse	
• at AC10,5g / 5 ms, 6,6g / 10 msmechanical service life (switching 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 000reference code acc. to IEC 81346-2QSubstance Prohibitance (Date)01.10.2009 00:00:00Ambient conditions2 000 minstallation altitude at height above sea level maximum • during operation • during storage2 000 mambient temperature • during storage-25 +60 °C• Main circuit number of poles for main current circuit number of NO contacts for main contacts3	• at AC	6,7g / 5 ms, 4,2g / 10 ms
mechanical service life (switching cycles)of contactor typical30 000 000• 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 000reference code acc. to IEC 81346-2QSubstance Prohibitance (Date)01.10.2009 00:00:00Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m-25 +60 °C-25 +60 °C• during storage-55 +80 °CMain circuit3number of poles for main current circuit3number of NO contacts for main contacts3	shock resistance with sine pulse	
• 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 000reference code acc. to IEC 81346-2QSubstance Prohibitance (Date)01.10.2009 00:00:00Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation2 000 m• during storage-25 +60 °C• during storage-55 +80 °CMain circuit3number of poles for main current circuit3number of NO contacts for main contacts3	• at AC	10,5g / 5 ms, 6,6g / 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>of the contactor with added auxiliary switch block typical</li> <li>reference code acc. to IEC 81346-2</li> <li>Q</li> <li>Substance Prohibitance (Date)</li> <li>O1.10.2009 00:00:00</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>-55 +80 °C</li> </ul> </li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>3</li> <li>number of NO contacts for main contacts</li> <li>3</li> </ul>	mechanical service life (switching cycles)	
auxiliary switch block typicalI• of the contactor with added auxiliary switch block typical10 000 000reference code acc. to IEC 81346-2QSubstance Prohibitance (Date)01.10.2009 00:00:00Ambient conditions2 000 minstallation altitude at height above sea level maximum e during operation e during storage2 000 mAmbient circuit-25 +60 °C -55 +80 °CMain circuit3number of poles for main current circuit number of NO contacts for main contacts3	<ul> <li>of contactor typical</li> </ul>	30 000 000
typicalreference code acc. to IEC 81346-2QSubstance Prohibitance (Date)01.10.2009 00:00:00Ambient conditionsinstallation altitude at height above sea level maximum2 000 mambient temperature-25 +60 °C• during operation-25 +60 °C• during storage-55 +80 °CMain circuit3number of poles for main current circuit3number of NO contacts for main contacts3		5 000 000
Substance Prohibitance (Date)       01.10.2009 00:00:00         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         Main circuit       3         number of poles for main current circuit       3         number of NO contacts for main contacts       3		10 000 000
Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during storage       -25 +60 °C         • during storage       -55 +80 °C         Main circuit       3         number of poles for main current circuit       3         number of NO contacts for main contacts       3	reference code acc. to IEC 81346-2	Q
installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during storage       -25 +60 °C         • during storage       -55 +80 °C         Main circuit       3         number of poles for main current circuit       3         number of NO contacts for main contacts       3	Substance Prohibitance (Date)	01.10.2009 00:00:00
ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         Main circuit       3         number of poles for main current circuit       3         number of NO contacts for main contacts       3	Ambient conditions	
ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         Main circuit       3         number of poles for main current circuit       3         number of NO contacts for main contacts       3	installation altitude at height above sea level maximum	2 000 m
• during storage     -55 +80 °C       Main circuit     3       number of poles for main current circuit     3       number of NO contacts for main contacts     3	ambient temperature	
• during storage     -55 +80 °C       Main circuit     3       number of poles for main current circuit     3       number of NO contacts for main contacts     3	<ul> <li>during operation</li> </ul>	-25 +60 °C
number of poles for main current circuit     3       number of NO contacts for main contacts     3		-55 +80 °C
number of NO contacts for main contacts 3	Main circuit	
	number of poles for main current circuit	3
operating voltage at AC-3 rated value maximum 690 V	number of NO contacts for main contacts	3
	operating voltage at AC-3 rated value maximum	690 V

-
18 A
18 A
16 A
7 A
6 A
4.9 A
6.5 A
15.8 A
5.8 A
4 A
4 A
3.8 A
3.6 A
2.7 A
2.7 A
2.7 A 2.5 A
2.4 A
2.5 mm <sup>2</sup>
2.6 A
1.8 A
15 A
1.5 A
0.6 A
0.42 A
0.42 A
15 A
8.4 A
1.2 A
0.6 A
0.5 A
45.4
15 A
15 A
15 A
15 A 0.9 A
15 A
15 A 0.9 A

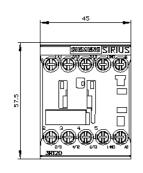
— at 110 V rated value	0.1 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 110 V rated value	0.25 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 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
operating power for approx. 200000 operating cycles at AC-4	
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 kV·A
• up to 400 V for current peak value n=20 rated value	2.7 kV·A
<ul> <li>up to 500 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>	3.3 kV·A
• up to 690 V for current peak value n=20 rated value	4.3 kV·A
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	1 kV·A
• up to 400 V for current peak value n=30 rated value	1.8 kV·A
• up to 500 V for current peak value n=30 rated value	2.2 kV·A
• up to 690 V for current peak value n=30 rated value	2.9 kV·A
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>	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
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	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	
<ul> <li>at AC-1 maximum</li> </ul>	1 000 1/h
• at AC-2 maximum	750 1/h
● at AC-3 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	230 V
• at 60 Hz rated value	230 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
at 60 Hz apparent pick-up power of magnet coil at AC	0.85 1.1
	27 V·A
apparent pick-up power of magnet coil at AC	
apparent pick-up power of magnet coil at AC • at 50 Hz	27 V·A
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz	27 V·A
<ul> <li>apparent pick-up power of magnet coil at AC</li> <li>at 50 Hz</li> <li>at 60 Hz</li> <li>inductive power factor with closing power of the coil</li> </ul>	27 V·A 24.3 V·A

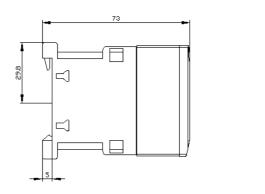
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 V·A
• at 60 Hz	3.3 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	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	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	6 A
<ul> <li>at 60 V rated value</li> </ul>	6 A
<ul> <li>at 110 V rated value</li> </ul>	3 A
<ul> <li>at 125 V rated value</li> </ul>	2 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul> <li>at 48 V rated value</li> </ul>	2 A
<ul> <li>at 60 V rated value</li> </ul>	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
<ul> <li>at 125 V rated value</li> </ul>	0.9 A
<ul> <li>at 220 V rated value</li> </ul>	0.3 A
<ul> <li>at 600 V rated value</li> </ul>	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>	4.8 A
<ul> <li>at 600 V rated value</li> </ul>	6.1 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.75 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— 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	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,
	80kA)

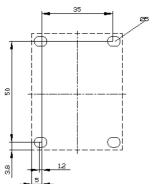
## $\bullet$ for short-circuit protection of the auxiliary switch required

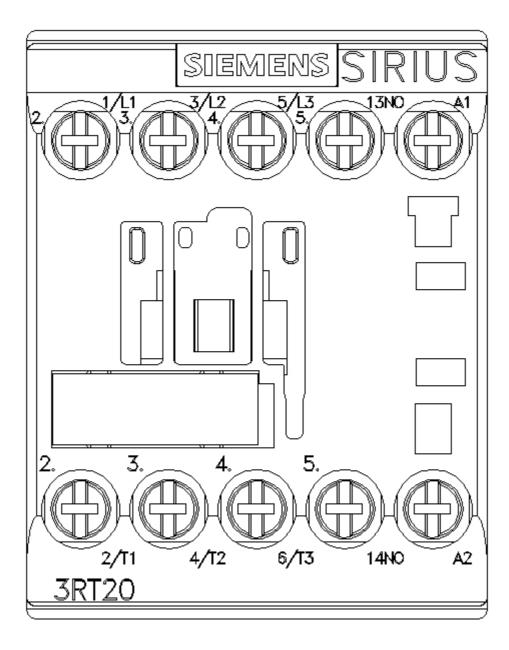
lequired			
Installation/ mounting/ dimensions			
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface		
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
<ul> <li>side-by-side mounting</li> </ul>	Yes		
height	58 mm		
width	45 mm		
depth	73 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		
<ul> <li>for grounded parts</li> </ul>			
— 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			
<ul> <li>for main contacts</li> </ul>			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²		
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 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>at AWG cables for main contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12		
connectable conductor cross-section for main contacts			
• solid	0.5 4 mm <sup>2</sup>		
<ul> <li>stranded</li> </ul>	0.5 4 mm <sup>2</sup>		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²		
connectable conductor cross-section for auxiliary contacts			
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm <sup>2</sup>		
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²		
type of connectable conductor cross-sections			
<ul> <li>for auxiliary contacts</li> </ul>			
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 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>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12		
AWG number as coded connectable conductor cross section			
<ul> <li>for main contacts</li> </ul>	20 12		
<ul> <li>for auxiliary contacts</li> </ul>	20 12		
Safety related data	Ves: with 3PH20		
product function mirror contact acc. to IEC 60947-4-1	Yes; with 3RH29		

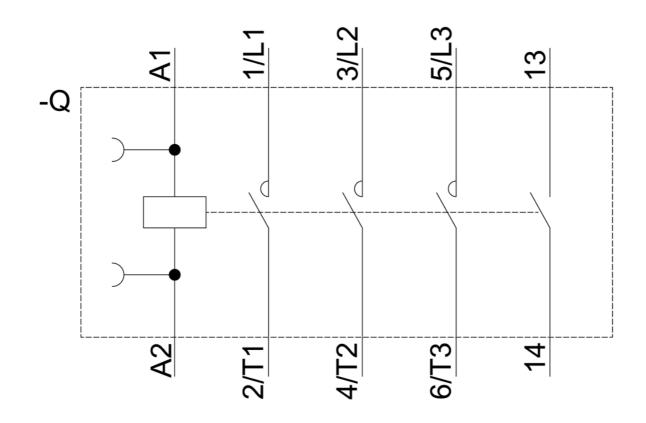
B10 value with high d	emand rate acc. to SN 3	31920 1 0	000 000					
proportion of dange	rous failures							
<ul> <li>with low deman</li> </ul>	• with low demand rate acc. to SN 31920 40 %							
<ul> <li>with high demand</li> </ul>	nd rate acc. to SN 3192	0 73	%					
failure rate [FIT] with I	failure rate [FIT] with low demand rate acc. to SN 31920			100 FIT				
T1 value for proof te IEC 61508	st interval or service l	ife acc. to 20	у					
protection class IP of	on the front acc. to IEC	60529 IP2	20					
touch protection on	the front acc. to IEC 6	<b>0529</b> fing	ger-safe, for vertical conta	act from the front				
suitability for use								
<ul> <li>safety-related s</li> </ul>	witching OFF	Ye	s					
Certificates/ approval	S							
General Product Ap	proval				EMC			
(Sp)			<u>KC</u>	EHC	RCM			
Functional Safety/Safety of Machinery	Declaration of Confo	ormity	Test Certificates		Marine / Shipping			
<u>Type Examination</u> <u>Certificate</u>	UK Declaration of Conformity	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS			
Marine / Shipping								
B U R E A U VERITAS	Lloyds Register urs	PRS	RINA	RMRS	DNV-GL DNV-GL			
other								
<u>Confirmation</u>	Confirmation Confirmation							
Further information								
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10								
Industry Mall (Online ordering system)								
	https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2015-1AP01							
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Service&Support (M https://support.industr Image database (pro http://www.automation	anuals, Certificates, C <u>y.siemens.com/cs/ww/e</u> duct images, 2D dime	haracteristics, FAQ en/ps/3RT2015-1APO nsion drawings, 3D ax_de.aspx?mlfb=3R	ls,) 11 0 models, device circuit 172015-1AP01⟨=en		cros,)			
https://support.industr Further characterist	<u>y.siemens.com/cs/ww/e</u> ics (e.g. electrical end	n/ps/3RT2015-1AP0 urance, switching fi	<u>)1/char</u>	)1&objecttype=14&gridv	<u>view=view1</u>			











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