## SIEMENS

## Data sheet

## 3RT2035-3XB44-0LA2



traction contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 24 V DC, 0.7-1.25\* Us, electronic drive, with integrated varistor, auxiliary contacts: 2 NO + 2 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2, removable auxiliary switch

product brand name         SIRUS           product designation         Power contador           design of the product         With excluded operating range           product type designation         SRT2           size of contactor         S2           size of contactor         S2           • function module for communication         No           • function module for communication         No           • and in the operating state         6.6 W           • at AC in hot operating state per pole         2.2 W           • of main circuit with degree of pollution 3 rated value         680 V           • of auxiliary drout with degree of pollution 3 rated value         690 V           • of auxiliary circuit rated value         680 V           • of auxiliary circuit rated value         680 V           • of auxiliary drout with degree of pollution 3 rated value         690 V           • of 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         8 kV           • of auxiliary circuit rated value         10 00 V           • ot bc         9.6g / 5 ms, 5.8g / 10 ms           mactractu fife (operating cycles)         10	and a second	
design of the product         With extended operating range           product type designation         3RT2           connard technical data	product brand name	SIRIUS
product type designation         3RT2           General technical data	product designation	Power contactor
General technical data     S2       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     6.6 W       • at AC in hot operating state     6.6 W       • of main circult with degree of pollution 3 rated value     690 V       • of main circult with degree of pollution 3 rated value     690 V       • of main circult with degree of pollution 3 rated value     690 V       • of main circult with degree of pollution 3 rated value     690 V       • of main circult with degree of pollution 3 rated value     690 V       • of main circult with degree of pollution 3 rated value     64 V       • of main circult with degree of pollution 3 rated value     64 V       • of main circult with degree of pollution 3 rated value     64 V       • of main circult with degree of pollution 3 rated value     64 V       • of main circult with degree of pollution 3 rated value     64 V       • of main circult with degree of pollution 3 rated value     64 V       • of main circult with degree of pollution 3 rated value     64 V       • of main circult with degree of polletic 3 rated value     64 V       • of main circult with seque     64 V       • of main circult with seque     64 V       • of the contactor with added electornically poll in 26 dogree     10 000 000	design of the product	With extended operating range
size of contactor     §2       product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     6.6 W       • at AC in hot operating state per pole     2.2 W       insulation voltage     6.6 W       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     690 V       • of main circuit rated value     6 kV       • of and main contacts according to EN 60947-1     5 kV       shock resistance at roctangue this ine pulse     6.1g / 5 ms, 3.7g / 10 ms       • at DC     9.6g / 5 ms, 5.8g / 10 ms       mechanical service life (operating cycles)     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added 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 switen block typical     10 000 000 <t< td=""><td>product type designation</td><td>3RT2</td></t<>	product type designation	3RT2
product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     6.6 W       • at AC in hot operating state     6.6 W       • at AC in hot operating state per pole     2.2 W       insulation voltage     600 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 with degree of pollution 3 rated value     64 V       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of auxiliary circuit go EN 00947-1     400 V       shock resistance at rectangular impulse     6.1g / 5 ms, 3.7g / 10 ms       • at DC     9.6g / 5 ms, 5.8g / 10 ms       mechanical service life (operating cycles)     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       reference code according to IEC 81	General technical data	
	size of contactor	S2
• auxiliary switch         Yes           power loss [W] for rated value of the current         6.6 W           • at AC in hot operating state         6.6 W           • at AC in hot operating state per pole         2.2 W           insulation voltage         6.90 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         60 V           • of main circuit with degree of pollution 3 rated value         60 V           • of main circuit value         6 kV           • of main circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • of of auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • auxiliary survisch biock topica         6 kV           • at DC         6.1g / 5 ms, 3.7g / 10 ms           • at DC         9.6g / 5 ms, 5.8g / 10 ms           • of the contactor with added auxiliary switch block typical         10 000 000	product extension	
power loss [W] for rated value of the current         6.6 W           • at AC in hot operating state         6.6 W           • at AC in hot operating state per pole         2.2 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 with degree of pollution 3 rated value         690 V           • of main circuit rated value         6 kV           • of auxiliary circuit rated value         6 kV           • of anxiliary circuit rated value         6 kV           • of main circuit rated value         6 kV           • at DC         6.1g / 5 ms, 3.7g / 10 ms           • at DC         9.6g / 5 ms, 5.8g / 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 b	<ul> <li>function module for communication</li> </ul>	No
• at AC in hot operating state       6.6 W         • at AC in hot operating state per pole       2.2 W         insulation voltage       6         • 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 rated value       6 kV         • at DC       6.1g / 5 ms, 3.7g / 10 ms         shock resistance at rectangular impulse       -         • at DC       9.6g / 5 ms, 5.8g / 10 ms         mechanical service life (operating cycles)       -         • 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         reference code acordring to IEC 81346-2       Q	auxiliary switch	Yes
e at AC in hot operating state per pole         2.2 W      insulation voltage         e of main circuit with degree of pollution 3 rated value         690 V         e of auxiliary circuit with degree of pollution 3 rated value         690 V          surge voltage resistance         e of main circuit rated value         e 6kV         e of auxiliary circuit rated value         e 6kV         e of auxiliary circuit rated value         6kV         e of auxiliary circuit rated value         e 6.1g / 5 ms, 3.7g / 10 ms         shock resistance at rectangular impulse         e at DC         e .6.1g / 5 ms, 5.8g / 10 ms         mechanical service life (operating cycles)         e of contactor typical         e of contactor typical         e 10 000 000         reference code according to IEC 81346-2         Q         Substance Prohibitance (Date)         Inot IZ014         Ambient conditions         installation altitude at height above sea level maximum         e J00 "C         e during storage         e 55 +80 "C         relative humidity minimum         for %         e during storage         e 55 +80 "C         e during storage         e 55 +80	power loss [W] for rated value of the current	
Insulation voltage       600 V         • of main circuit with degree of pollution 3 rated value       600 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 coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       6.1g / 5 ms, 3.7g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient temperature       -40 +70 °C         • during storage       -55 +80 °C         relative humidity minimum	<ul> <li>at AC in hot operating state</li> </ul>	6.6 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       surge voltage resistance     6 kV       • of main 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     6.1g / 5 ms, 3.7g / 10 ms       • at DC     6.1g / 5 ms, 3.7g / 10 ms       shock resistance with sine pulse     9.6g / 5 ms, 5.8g / 10 ms       • at DC     9.6g / 5 ms, 5.8g / 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       reference code according to IEC 81346-2     Q       Substance Prohibitance (Date)     10/01/2014       Ambient conditions     -40 +70 °C       • during operation     -40 +70 °C       • during storage     -55 +80 °C       relative humidity minimum     10 %       95 %     95 %	<ul> <li>at AC in hot operating state per pole</li> </ul>	2.2 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         • of auxiliary circuit rated value       6 kV         • at DC       6.1g / 5 ms, 3.7g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary witch block typical       5 0000 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -40 +70 °C         • during storage       -55 +80 °C	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       6.1g / 5 ms, 3.7g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       -40 +70 °C         • during operation       -40 +70 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       Main circuit	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
• 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       6.1g / 5 ms, 3.7g / 10 ms         • at DC       6.1g / 5 ms, 5.8g / 10 ms         shock resistance with sine pulse       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of the contactor vith 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)       10/01/2014         Ambient conditions       2 000 m         ambient temperature       -40 +70 °C         • during operation       -40 +70 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30       95 %	<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 coll and main contacts according to EN 60947-1400 Vshock resistance at rectangular impulse6 k1g / 5 ms, 3.7g / 10 ms• at DC6.1g / 5 ms, 3.7g / 10 msshock resistance with sine pulse9.6g / 5 ms, 5.8g / 10 ms• at DC9.6g / 5 ms, 5.8g / 10 ms• 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 typical0 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum a during operation2 000 mambient temperature • during storage-55 +80 °Crelative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse <ul> <li>at DC</li> <li>btock resistance with sine pulse</li> <li>at DC</li> <li>btock resistance with sine pulse</li> <li>at DC</li> <li>btock resistance with sine pulse</li> <li>btock resistance with added electronically optimized auxiliary switch block typical</li> <li>btock typical</li> <li< td=""><td><ul> <li>of main circuit rated value</li> </ul></td><td>6 kV</td></li<></ul>	<ul> <li>of main circuit rated value</li> </ul>	6 kV
coil and main contacts according to EN 60947-1         shock resistance at rectangular impulse         • at DC       6.1g / 5 ms, 3.7g / 10 ms         shock resistance with sine pulse       -         • at DC       9.6g / 5 ms, 5.8g / 10 ms         mechanical service life (operating cycles)       -         • 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         ambient temperature       -40 +70 °C         • during operation       -55 +80 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit	<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
• at DC       6.1g / 5 ms, 3.7g / 10 ms         shock resistance with sine pulse       9.6g / 5 ms, 5.8g / 10 ms         • at DC       9.6g / 5 ms, 5.8g / 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)       10/01/2014         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -40 +70 °C         • during operation       -45 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       4000000000000000000000000000000000000		400 V
shock resistance with sine pulse       at DC         • at DC       9.6g / 5 ms, 5.8g / 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -40 +70 °C         • during operation       -45 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %	shock resistance at rectangular impulse	
• at DC9.6g / 5 ms, 5.8g / 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 typical10 000 000• 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-40 +70 °C• during storage-55 +80 °Crelative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at DC	6.1g / 5 ms, 3.7g / 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)       10/01/2014         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -40 +70 °C         • during operation       -40 +70 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       Main circuit	shock resistance with sine pulse	
• 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 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2014Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature • during operation • during storage-40 +70 °Crelative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum95 %	• at DC	9.6g / 5 ms, 5.8g / 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>10/01/2014</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>-40 +70 °C</li> <li>-55 +80 °C</li> </ul> </li> <li>relative humidity minimum</li> <li>10 %</li> <li>relative humidity at 55 °C according to IEC 60068-2-30 maximum</li> <li>maximum</li> </ul>	mechanical service life (operating cycles)	
auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -40 +70 °C         • during operation       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit	<ul> <li>of contactor typical</li> </ul>	10 000 000
reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -40 +70 °C         • during operation       -40 +70 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         Main circuit       95 %		5 000 000
Substance Prohibitance (Date)       10/01/2014         Ambient conditions       10/01/2014         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -40 +70 °C         • during operation       -40 +70 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       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       -40 +70 °C         • during operation       -40 +70 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum       2 000 m         ambient temperature <ul> <li>during operation</li> <li>-40 +70 °C</li> <li>during storage</li> <li>-55 +80 °C</li> </ul> relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit       40	Substance Prohibitance (Date)	10/01/2014
ambient temperature       -40 +70 °C         • during operation       -40 +70 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit	Ambient conditions	
• during operation       -40 +70 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit	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 maximum     95 %       Main circuit	ambient temperature	
relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       95 %	<ul> <li>during operation</li> </ul>	-40 +70 °C
relative humidity at 55 °C according to IEC 60068-2-30     95 %       Main circuit     95 %	during storage	-55 +80 °C
maximum Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	Main circuit	
	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	050 V
at AC-1 at 400 V at ambient temperature 40 °C rated	60 A
value	0077
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	60 A
value	
— up to 690 V at ambient temperature 60 °C rated value	55 A
at AC-2 at 400 V rated value	40 A
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	35 A
minimum cross-section in main circuit	
at maximum AC-1 rated value	16 mm <sup>2</sup>
<ul> <li>at maximum Ith rated value</li> </ul>	16 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at	
AC-4	
• at 400 V rated value	22 A
● at 690 V rated value	18.5 A
operational current	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 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	35 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	55 A

— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
<ul> <li>at AC-2 at 400 V rated value</li> </ul>	18.5 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	11.6 kW
• at 690 V rated value	16.8 kW
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>	843 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	596 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	400 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	241 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	196 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	1 500 1/h
operating frequency	
• at AC-2 at AC-3e maximum	750 1/h
• at AC-4 maximum	300 1/h
Ratings for railway applications	
thermal current (Ith) up to 690 V	
up to 40 °C according to IEC 60077 rated value	60 A
• up to 70 °C according to IEC 60077 rated value	50 A
Control circuit/ Control	
type of voltage	DC
	DC
type of voltage of the control supply voltage	
control supply voltage at DC	24.)/
rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.7
full-scale value	1.25
design of the surge suppressor	with varistor
inrush current peak	3 A 50 up
duration of inrush current peak	50 µs
locked-rotor current mean value	1A
locked-rotor current peak	2.6 A
duration of locked-rotor current	230 ms
holding current mean value	40 mA
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
closing delay	
• at DC	35 110 ms
• at DC     opening delay	35 110 ms
	35 110 ms 30 55 ms
opening delay	
opening delay ● at DC	30 55 ms

number of NC contacts for auxiliary contacts	2
instantaneous contact	2
number of NO contacts for auxiliary contacts	2
instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	6 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	
<ul> <li>at 24 V rated value</li> </ul>	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
• at 125 V rated value	2 A
• at 220 V rated value	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	6 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
<ul> <li>at 220 V rated value</li> </ul>	0.3 A
<ul> <li>at 600 V rated value</li> </ul>	0.1 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	40 A
at 600 V rated value	41 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	30 hp
— at 575/600 V rated value	40 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
	No
product function short circuit protection design of the fuse link	No
for short-circuit protection of the main circuit	
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)
	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (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
meaning position	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	Yes
height	114 mm
width	55 mm
depth	178 mm
required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
	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				
for main current circuit	screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	spring-loaded terminals			
at contactor for auxiliary contacts	Spring-type terminals			
of magnet coil	Spring-type terminals			
type of connectable conductor cross-sections for main contacts				
• solid or stranded	2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )			
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)			
type of connectable conductor cross-sections				
for auxiliary contacts				
— solid or stranded	2x (0.5 2.5 mm <sup>2</sup> )			
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 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 14)			
AWG number as coded connectable conductor cross section				
for main contacts	18 1			
<ul> <li>for auxiliary contacts</li> </ul>	20 14			
Safety related data				
product function				
mirror contact according to IEC 60947-4-1	Yes			
positively driven operation according to IEC 60947-5-1	No			
B10 value with high demand rate according to SN 31920	1 000 000			
proportion of dangerous failures	40.0/			
with low demand rate according to SN 31920	40 %			
with high demand rate according to SN 31920     failure rate [EIT] with low demand rate according to SN 21020	73 %			
failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC	100 FIT			
61508	20 a			
protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			
Communication/ Protocol				
product function bus communication	No			
Certificates/ approvals				
General Product Approval				
General Product Approval				
General Product Approval	°			
	° • FAΓ			
	EAC			
Confirmation CCC	۳. EHL			
EMC     Functional Safety/Safety of Ma-     Declaration of	۳. EHL			
Confirmation CCC	۳. EHL			
EMC     Functional Safety/Safety of Ma-     Declaration of	Conformity Test Certificates			
EMC Functional Safety/Safety of Ma- chinery Declaration of	Conformity Test Certificates			
Image: Confirmation of the second	Conformity Test Certificates			
Image: Confirmation of the second	Conformity Test Certificates EHC			

Marine / Shipping					
ABS	B U REAU VERITAS	Hoyd's Register us	PRS	RINA	RMRS
other	Railway			Environment	
<u>Confirmation</u>	<u>Type Test Certific-</u> ates/Test Report	Vibration and Shock	<u>Special Test Certific-</u> <u>ate</u>	Environmental Con- firmations	

Further information

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RT2035-3XB44-0LA2 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-3XB44-0LA2 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) 44-01 42 https://support.industry.siemens.com/cs/ww/en/ps/3RT2035

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

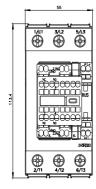
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2035-3XB44-0LA2&lang=en

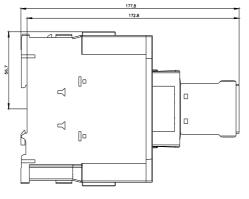
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

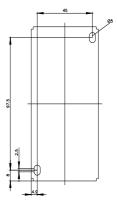
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3XB44-0LA2/char

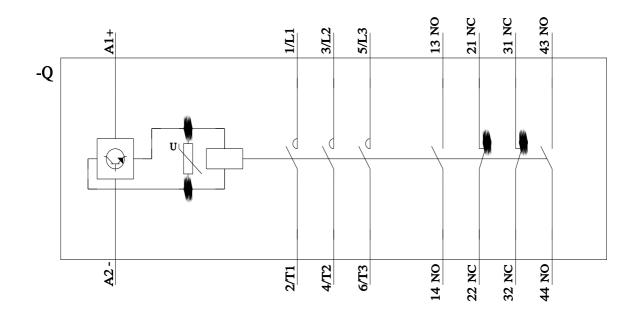
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-3XB44-0LA2&objecttype=14&gridview=view1









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