# **SIEMENS**

Data sheet 3RT2037-1NB30



Power contactor, AC-3 65 A, 30 kW / 400 V 1 NO + 1 NC, AC / DC 20-33 V, with varistor 3-pole, size S2 screw terminals

product designation Power contactor product type designation Size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current sharet ypical insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of anializing vicruit with degree of pollution 3 rated value • of anializing vicruit with degree of pollution 3 rated value • of main circuit vith degree of pollution 3 rated value • of anializing vicruit with degree of pollution 3 rated value • of anializing vicruit vith degree of pollution 3 rated value • of anializing vicruit vith degree of pollution 3 rated value • of anializing vicruit vith degree of pollution 3 rated value • of anializing vicruit vith degree of pollution 3 rated value • of anializing vicruit vith degree of pollution 3 rated value • of anializing vicruit vith degree of pollution 3 rated value • of anializing vicruit vith degree of pollution 3 rated value • of anializing vicruit vith degree of pollution 3 rated value • of anializing vicruit vith degree of pollution 3 rated value • of anializing vicruit vith degree of pollution 3 rated value • of anializing vicruit vith degree of pollution 3 rated value • at AC • at DC  substance at rectangular impulse • at AC • at DC  rectance at rectangular impulse • at AC • at DC  rectance at rectangular impulse • at AC • at DC  rectance at rectangular impulse • at AC • at DC  rectance at rectangular impulse • at AC • at DC  rectance at rectangular impulse • at AC • at DC  rectance at rectangular impulse • at AC • at DC  rectance at rectangular impulse • at AC • at DC  rectance at rectangular impulse • at AC • at DC  rectance at rectangular impulse • at AC • at DC  rectance at rectangular impulse • at AC • at DC  rectance at rectangular impulse • at AC • at DC  rectance at rectangular impulse • at AC • at DC  rectance	product brand name	SIRIUS
Second contactor   Second cont	product designation	Power contactor
size of contactor  product extension  • function module for communication  • auxiliary switch  power loss [W] for rated value of the current  • at AC in hot operating state per pole  • without load current share typical  insulation voltage  • of main circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  • of anxiliary circuit with degree of pollution 3 rated value  • of anxiliary circuit with degree of pollution 3 rated value  • of main circuit value devalue  • of main circuit rated value  • of main circuit rated value  • of main circuit rated value  • of auxiliary circuit rated value  • of waximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC  • at DC  7.7g / 5 ms, 4.5g / 10 ms  7.7g / 5 ms, 4.5g / 10 ms  shock resistance with sine pulse  • at AC  • at DC  12g / 5 ms, 7g / 10 ms  12g	product type designation	3RT2
product extension  • function module for communication • auxilliary switch  power loss [W] for rated value of the current  • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Quut of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Quut of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Quut of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Quut of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Quut of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Quut of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Quut of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Quut of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Quut of the contactor	General technical data	
• function module for communication • auxiliary switch  power loss [W] for rated value of the current • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of auxiliary circuit rated value • of main circuit rated value • of auxiliary circuit rated value • of xight and	size of contactor	S2
auxiliary switch  power loss [W] for rated value of the current  at AC in hot operating state at AC in hot operating state per pole without load current share typical  of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of main circuit rated value of main circuit rated value of auxiliary circuit rated value  of auxiliary circuit rated value  of main circuit rated value  of auxiliary circuit rated value  of auxiliary circuit rated value  of waxiliary circuit rated value  of auxiliary circuit rated value  of availiary switch block typical  of the contactor with added electronically optimized auxiliary switch block typical  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  of union/2014  Ambient temperature  of during operation  over 11.4 W  over 490 V  over 400 V  over 400 V  over 50 ms, 4.5g / 10 ms  10 ms  10 ms  10 000 000  10 000 000  10 000 000  10 000 00	product extension	
power loss [W] for rated value of the current  at AC in hot operating state at AC in hot operating state per pole without load current share typical of main circuit with degree of pollution 3 rated value of awailiary circuit with degree of pollution 3 rated value of awailiary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of awailiary circuit rated value of awailiary circuit rated value of awailiary circuit rated value for awailiary circuit rated value of awailiary circuit rated value of awailiary circuit rated value for awailiary circuit rated value of the contactor with added electronically optimized awailiary switch block typical of the contactor with added awailiary switch block typical reference code according to IEC 81346-2 Quudonical service iffe (switching cycles) of the contactor with added awailiary switch block typical reference code according to IEC 81346-2 Quudonical service iffe (switching cycles) of the contactor with added awailiary switch block typical reference code according to IEC 81346-2 Quudonical service iffe (switching cycles) of the conditions installation altitude at height above sea level maximum ambient temperature of during operation	<ul> <li>function module for communication</li> </ul>	No
at AC in hot operating state at AC in hot operating state per pole without load current share typical  insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of at AC of at DC  shock resistance with sine pulse of at AC 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 reference code according to IEC 81346-2 Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum of uning operation  11.4 W 3.8 W  3.8 W  690 V  690 V  690 V  400 V  690 V  69	auxiliary switch	Yes
at AC in hot operating state per pole without load current share typical  insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of main circuit rated value of auxiliary circuit rated value of at AC of	power loss [W] for rated value of the current	
insulation voltage  of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of main circuit rated value of auxiliary circuit rated value of a with contacts according to EN 60947-1 shock resistance at rectangular impulse of at AC of at DC of x,7g / 5 ms, 4.5g / 10 ms of x,7g / 5 ms, 4.5g / 10 ms of x,7g / 5 ms, 7g / 10 ms of x,7g / 5 ms, 7g / 10 ms of x,7g / 5 ms, 7g / 10 ms of x,7g / 5 ms, 7g / 10 ms of x,7g / 5 ms, 7g / 10 ms of x,7g / 5 ms, 7g / 10 ms of x,7g / 5 ms, 7g / 10 ms of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical 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 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 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 of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical	<ul> <li>at AC in hot operating state</li> </ul>	11.4 W
insulation voltage  • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value  • of auxiliary circuit with degree of pollution 3 rated value  surge voltage resistance  • of main circuit rated value  • of auxiliary circuit rated value  • of auxiliary circuit rated value  6 kV  6 kV  maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC  • at DC  shock resistance with sine pulse  • at AC  • at DC  12g / 5 ms, 4.5g / 10 ms  12g / 5 ms, 7g / 10 ms  12g / 5 ms, 7g / 10 ms  mechanical service life (switching cycles)  • of 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  • 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  • 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  • 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  • of the contactor with added auxiliary switch block typical	<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 W
of main circuit with degree of pollution 3 rated value     of auxiliary circuit with degree of pollution 3 rated value     surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     aximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse     of at AC     of contactor with sine pulse     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     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     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     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     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	<ul> <li>without load current share typical</li> </ul>	2 W
of auxiliary circuit with degree of pollution 3 rated value  surge voltage resistance     of main circuit rated value     of auxiliary contacts according to EN 60947-1  shock resistance at rectangular impulse     of at AC     of at DC     of y 5 ms, 4.5g / 10 ms      rectangular impulse     of at AC     of contactor with sine pulse     of the 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  reference code according to IEC 81346-2     Q  Substance Prohibitance (Date)  installation altitude at height above sea level maximum  ambient temperature     oduring operation  -25 +60 °C	insulation voltage	
surge voltage resistance  of main circuit rated value  of auxiliary circuit rated value  of auxiliary circuit rated value  maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  ot at AC  ot AC  r.7g / 5 ms, 4.5g / 10 ms  shock resistance with sine pulse  ot at AC  ot AC  12g / 5 ms, 7g / 10 ms  shock resistance with sine pulse  ot at AC  ot AC  12g / 5 ms, 7g / 10 ms  mechanical service life (switching cycles)  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  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  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  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  of the contactor with added auxiliary switch block typical  of the contactor with added auxiliary switch block typical	<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
of main circuit rated value     of auxiliary circuit rated value     amaximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1      shock resistance at rectangular impulse     o at AC     o at DC      shock resistance with sine pulse     o at AC     o at DC      shock resistance with sine pulse     o at AC     o at DC      mechanical service life (switching cycles)     of contactor typical     of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical		690 V
of auxiliary circuit rated value     maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse     oat AC     oat DC  shock resistance with sine pulse     oat AC     oat DC  at DC  mechanical service life (switching cycles)     of 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     reference code according to IEC 81346-2     Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature     oduring operation  6 kV  400 V	surge voltage resistance	
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at AC • at DC  shock resistance with sine pulse • at AC • at DC  at AC • at DC  at AC • at DC  12g / 5 ms, 4.5g / 10 ms  12g / 5 ms, 7g / 10 ms  mechanical service life (switching cycles) • of 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  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature • during operation  400 V  400 V  400 V  400 V  7.7g / 5 ms, 4.5g / 10 ms  12g / 5 ms, 7g / 10 ms  12g / 5 ms,	<ul> <li>of main circuit rated value</li> </ul>	6 kV
shock resistance at rectangular impulse  • at AC • at DC  shock resistance with sine pulse • at AC • at DC  • of the contactor lyfical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the con	of auxiliary circuit rated value	6 kV
<ul> <li>at AC</li> <li>at DC</li> <li>7.7g / 5 ms, 4.5g / 10 ms</li> <li>shock resistance with sine pulse</li> <li>at AC</li> <li>at DC</li> <li>12g / 5 ms, 7g / 10 ms</li> <li>at DC</li> <li>12g / 5 ms, 7g / 10 ms</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>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code according to IEC 81346-2</li> <li>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>ambient temperature</li> <li>during operation</li> <li>-25 +60 °C</li> </ul>		400 V
• at DC  shock resistance with sine pulse  • at AC  • at DC  mechanical service life (switching cycles)  • of 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  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  7.7g / 5 ms, 4.5g / 10 ms  12g / 5 ms, 7g / 10 ms  10 000 000  10 000 000  10 000 000  10 000 00	shock resistance at rectangular impulse	
shock resistance with sine pulse  • at AC  • at DC  12g / 5 ms, 7g / 10 ms  mechanical service life (switching cycles)  • of 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  reference code according to IEC 81346-2  Q  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  12g / 5 ms, 7g / 10 ms  10 000 000  10 000 000  10 000 000  10 000 00	• at AC	7.7g / 5 ms, 4.5g / 10 ms
<ul> <li>at AC</li> <li>at DC</li> <li>12g / 5 ms, 7g / 10 ms</li> <li>mechanical service life (switching cycles)</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>of the contactor with added auxiliary switch block typical</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>-25 +60 °C</li> </ul>	• at DC	7.7g / 5 ms, 4.5g / 10 ms
at DC     mechanical service life (switching cycles)     of 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      reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature     oduring operation  12g / 5 ms, 7g / 10 ms  10 000 000  5 000 000  10 000 000  10 000 000  10 000 00	shock resistance with sine pulse	
mechanical service life (switching cycles)  of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical typical  reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  Involved  Involv	• at AC	12g / 5 ms, 7g / 10 ms
<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>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>10 000 000</li> <li>2 000 000</li> </ul>	• at DC	12g / 5 ms, 7g / 10 ms
of the contactor with added electronically optimized auxiliary switch block typical     of the contactor with added auxiliary switch block typical      reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature     oduring operation  5 000 000  10 000 000  10 000 000  10 000 00	mechanical service life (switching cycles)	
auxiliary switch block typical  of the contactor with added auxiliary switch block typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature oduring operation  10 000 000  10/01/2014  2 000 m  2 000 m	<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 installation altitude at height above sea level maximum 2 000 m  ambient temperature  • during operation -25 +60 °C		5 000 000
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  10/01/2014  2 000 m  -25 +60 °C		10 000 000
Ambient conditions  installation altitude at height above sea level maximum 2 000 m  ambient temperature  • during operation -25 +60 °C	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum  ambient temperature  ● during operation  2 000 m  -25 +60 °C	Substance Prohibitance (Date)	10/01/2014
ambient temperature         ● during operation         -25 +60 °C	Ambient conditions	
• during operation -25 +60 °C	installation altitude at height above sea level maximum	2 000 m
	ambient temperature	
• during storage -55 +80 °C	<ul> <li>during operation</li> </ul>	-25 +60 °C
	during storage	-55 +80 °C

relative humidity minimum	10 %
relative numidity minimum relative humidity at 55 °C according to IEC 60068-2-30	95 %
maximum	55 /u
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> <li>at AC-1</li> </ul>	80 A
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> <li>up to 690 V at ambient temperature 60 °C</li> </ul>	80 A 70 A
rated value	
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
at AC-4 at 400 V rated value	55 A
at AC-5a up to 690 V rated value	70.4 A
at AC-5b up to 400 V rated value	53.9 A
at AC-6a  — up to 230 V for current peak value n=20 rated	56.9 A
value — up to 400 V for current peak value n=20 rated value	56.9 A
up to 500 V for current peak value n=20 rated value	56.9 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	47 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	38 A
— up to 400 V for current peak value n=30 rated value	38 A
— up to 500 V for current peak value n=30 rated value	38 A
— up to 690 V for current peak value n=30 rated value	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm <sup>2</sup>
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	28 A
at 690 V rated value	22 A
operational current	
• at 1 current path at DC-1	
— 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
• at 1 current path at DC-3 at DC-5	
— 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
	0.00 A
with 2 current paths in series at DC-3 at DC-5	55.4
— 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
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— 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>	30 kW
• at AC-3	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	18.5 kW
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	37 kW
operating power for approx. 200000 operating cycles	OT REV
at AC-4	
at 400 V rated value	14.7 kW
at 690 V rated value	20 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	22.6 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	39.4 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	49.2 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	56.1 kVA
operating apparent power at AC-6a	00.1 ((1))
up to 230 V for current peak value n=30 rated value	15.1 kVA
	26.2 kVA
• up to 400 V for current peak value n=30 rated value	
• up to 500 V for current peak value n=30 rated value	32.8 kVA
up to 690 V for current peak value n=30 rated value	45.3 kVA
short-time withstand current in cold operating state up to 40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 055 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	730 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	520 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	336 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	272 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	1 500 1/h

• at DC	1 500 1/h
operating frequency	1 000 1/11
at AC-1 maximum	800 1/h
at AC-1 maximum     at AC-2 maximum	400 1/h
at AC-2 maximum     at AC-3 maximum	700 1/h
at AC-3 maximum     at AC-3e maximum	700 1/h
at AC-3e maximum     at AC-4 maximum	
	200 1/h
Control circuit/ Control	AO/DO
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	20 20 1/
at 50 Hz rated value	20 33 V
at 60 Hz rated value	20 33 V
control supply voltage at DC	20 22 1/
• rated value	20 33 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
Initial value     full-scale value	1.1
operating range factor control supply voltage rated	
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
inrush current peak	3 A
duration of inrush current peak	50 μs
locked-rotor current mean value	1 A
locked-rotor current peak	2.6 A
duration of locked-rotor current	230 ms
holding current mean value	40 mA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	40 VA
• at 60 Hz	40 VA
apparent holding power of magnet coil at AC	
• at 50 Hz	2 VA
• at 60 Hz	2 VA
closing power of magnet coil at DC	23 W
holding power of magnet coil at DC	1 W
closing delay	
• at AC	35 110 ms
• at DC	35 110 ms
opening delay	
• at AC	30 55 ms
• at DC	30 55 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	1
instantaneous contact	
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
• at 48 V rated value	6 A
• at 60 V rated value	6 A
• at 110 V rated value	3 A

* at 125 V rated value		
a 1800 V rated value	at 125 V rated value	2 A
operational current at DC-13     all 24 V raided value   10 A     all 60 V raided value   2 A     all 60 V raided value   2 A     all 60 V raided value   10 A     all 125 V raided value   0.9 A     all 126 V raided value   0.1 A     all 126 V raided value   0.1 A     all 600 V raided value   0.1 A     all 700 V raided value   0	<ul> <li>at 220 V rated value</li> </ul>	1 A
	at 600 V rated value	0.15 A
	operational current at DC-13	
■ at 10 V reted value     ■ at 110 V reted value     ■ at 1220 V reted value     ■ at 220 V reted value     ■ at 220 V reted value     ■ at 800 V rete	<ul> <li>at 24 V rated value</li> </ul>	10 A
e st 110 V rated value	at 48 V rated value	2 A
• at 125 V rated value • at 220 V rated value • 0.1 A  contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  U/UCSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 800 V rated value • or at 101/120 V rated value • or at 101/120 V rated value • or at 200/208 V rated value • at 200 V rated value • of 3-phase AC motor — at 200/208 V rated value • at 200/208 V rated value — at 200/208 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 60/480 V rated value — or short-circuit protection  design of the five link • for short-circuit protection of the main circuit — with type of assignment 2 required (aff. V. 80 kA) • or short-circuit protection of the auxiliary switch • or short-circuit protection  1	<ul> <li>at 60 V rated value</li> </ul>	2 A
e. at 220 V rated value	at 110 V rated value	1 A
e. at 220 V rated value	at 125 V rated value	0.9 A
• at 800 V rated value  Contact reliability of auxillary contacts  UUCSA retings  full-load current (FLA) for 3-phase AC motor • at 800 V rated value • at 800 V rated value • of 800 V rated value • of 800 V rated value • of 100 V rated value • of 3-phase AC motor — at 1101/120 V rated value • of 3-phase AC motor — at 220/230 V rated value • of 3-phase AC motor — at 220/230 V rated value • of 3-phase AC motor — at 220/230 V rated value • of 3-phase AC motor — at 220/230 V rated value • of 100 pp — at 460/480 V rated value — at 1576600 V rated value — with type of contacts according to UL  Short-circuit protection of the main circuit — with type of contaction 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch forward • for short-circuit protection of the auxiliary switch forward and backward by ± 2.25° on vertical mourting surface, can be tilled  • side-by-side mounting  • forwards • side-by-side mounting  • forwards • of grounded parts  — forwards — at the side • of or grounded parts — forwards — ownwards — at the side • ownwards • of rive parts — forwards — ownwards — ownwards • of rive parts — forwards — ownwards • of rive parts — forwards — ownwards — ow		
State   Contact reliability of auxiliary contacts		
Section   Comment   Comm		
full-load current (FLA) for 3-phase AC motor   • at 480 V rated value   65 A   • at 480 V rated value   52 A     yielded mechanical performance [http]   • for single-phase AC motor     — at 110/120 V rated value   10 hp     • for single-phase AC motor     — at 220/230 V rated value   20 hp     — at 220/230 V rated value   50 hp     — at 260/280 V rated value   50 hp     — at 460/480 V rated value   50 hp     — at 75/800 V rated value   50 hp     — at 95/800 V rated value   50 hp     — at 95/800 V rated value   50 hp     — ontact rating of auxiliary contacts according to UL     Short-circuit protection     design of the fuse link   61 https://doi.org/10.000/10.00000/10.0000/10.0000/10.0000/10.0000/10.0000/10.0000/10.0000/10.0000/10.0000/10.0000/10.0000/10.00000/10.0000/10.0000/10.00000/10.0000/10.0000/10.0000/10.00000/10.00000/10.0000/10.00000/10.000		readity switching per 100 million (17 V, 1 mA)
• at 600 V rated value   52 A		05.4
vielded mechanical performance [hp]     of or single-phase AC motor		
• for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 220/230 V rated value — at 350/40 V rated value — at 55 hp — at 460/480 V rated value — at 575/600 V rated value — at 675/600 V rated value — at 60 v rate value — at 60 v rate value — with type of assignment 2 required — with type of assignment 2 required 4(415 V rate) — with type of assignment 2 required 4(415 V rate) 4(415 V		52 A
- at 110/120 V rated value - at 230 V rated value - 10 hp - 10	yielded mechanical performance [hp]	
■ at 230 V rated value ■ for 3-phase AC motor ■ at 200/230 V rated value ■ at 220/230 V rated value ■ at 220/230 V rated value ■ at 460/480 V rated value ■ at 475/600 V rated value ■ both p ■ at 475/600 V rated value ■ both p ■ contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link ■ for short-circuit protection of the main circuit ■ with type of coordination 1 required ■ for short-circuit protection of the auxiliary switch required ■ for short-circuit protection of the auxiliary switch required ■ for short-circuit protection of the auxiliary switch required ■ for short-circuit protection of the auxiliary switch required ■ for short-circuit protection of the auxiliary switch required ■ for short-circuit protection of the auxiliary switch required ■ side-by-side mounting/dimensions ■ hight ■ t-180° rotation possible on vertical mounting surface, can be tilted forward and backward by +f-22.5° on vertical mounting rail according to DIN EN 60715 ■ side-by-side mounting ■ height ■ this dide-by-side mounting ■ with side-by-side mounting ■ with side-by-side mounting ■ of forwards ■ 10 mm ■ cupwards ■ 10 mm ■ the side ■ forgrounded parts ■ forwards ■ 10 mm ■ of mowards ■ 10 mm ■ of mowards ■	<b>5</b> .	
• for 3-phase AC motor  — at 200/209 V rated value — at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value  contact rating of auxillary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxillary switch required • for short-circuit protection of the auxillary switch required  Installation/mounting/dimensions  mounting position  #/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting noto 35 mm standard mounting rail according to DIN EN 60715  Yes  height  #/ 114 mm  width #/ 55 mm  depth  required spacing  • with side-by-side mounting — of owards — upwards — odownwards — 10 mm — odownwards — 10 mm — of orwards — at the side — of oryounded parts — forwards — at the side — downwards — 10 mm  • for live parts — forwards — forwards — of worwards — 10 mm  • for live parts — forwards — odownwards — 10 mm — owards — oward	<ul> <li>— at 110/120 V rated value</li> </ul>	5 hp
- at 200/208 V rated value - at 220/230 V rated value 20 hp - at 220/230 V rated value 50 hp - at 4575/600 V rated value 50 hp - at 575/600 V rated value 70 hp - at 575/600 V rated 70 hp - at 70 hp	— at 230 V rated value	10 hp
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value - other fuse link - for short-circuit protection  design of the fuse link - with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required - of or short-circuit protection of the auxiliary switch - with type of assignment 2 required - of or short-circuit protection of the auxiliary switch - of short-circuit protection of the saxiliary switch - of short-circuit protection of the auxiliary switch - of short-circuit protection of the saxiliary switch - of short-circuit prote	• for 3-phase AC motor	
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value - other fuse link - for short-circuit protection  design of the fuse link - with type of coordination 1 required - with type of assignment 2 required - with type of assignment 2 required - with type of assignment 2 required - of or short-circuit protection of the auxiliary switch - with type of assignment 2 required - of or short-circuit protection of the auxiliary switch - of short-circuit protection of the saxiliary switch - of short-circuit protection of the auxiliary switch - of short-circuit protection of the saxiliary switch - of short-circuit prote	— at 200/208 V rated value	20 hp
- at 460/480 V rated value 50 hp 50 hp 50 hp contact rating of auxillary contacts according to UL A600 / P600  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of assignment 2 required (415 V, 80 kA) • for short-circuit protection of the auxiliary switch required (145 V, 80 kA) • for short-circuit protection of the auxiliary switch required (145 V, 80 kA) • for short-circuit protection of the auxiliary switch required (155 kg 690 V, 100 kA), aM: 63A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA) • for short-circuit protection of the auxiliary switch required (155 kg 690 V, 100 kA), aM: 63A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA) • for short-circuit protection of the auxiliary switch required (155 kg 690 V, 100 kA), aM: 63A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA) • for short-circuit protection of the auxiliary switch required (155 kg 690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) • for short-circuit protection of the main circuit  - with type of assignment 2 required (415 V, 80 kA) • for short-circuit protection of the main circuit  - with type of assignment 2 required (415 V, 80 kA) • for short-circuit protection of the main circuit  - with type of assignment 2 required (415 V, 80 kA) • for low auxiliary switch required (415 V, 80 kA)  - at the side (415 V, 80 kA) • for low auxiliary switch required (415 V, 80 kA)  - at the side (415 V, 80 kA) • for low auxiliary switch required (415 V, 80 kA)  - at the side (415 V, 80 kA) • for low auxiliary switch required (415 V, 80 kA)  - at the side (415 V, 80 kA) • for low auxiliary switch required (415 V, 80 kA)  - at the side	— at 220/230 V rated value	
- at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • side-by-side mounting/ dimensions  mounting position  • /-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  Yes  height  114 mm  width  depth  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • ownwards  — downwards  — at the side  • for grounded parts  — forwards  — upwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — upwards  — ownwards  — ownwards  • for live parts  — forwards  — downwards  — downwards  — downwards  — downwards  — downwards  — ownwards  — own		
contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  • for short-circuit protection of the auxiliary switch  required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  **Frake in the forward and backward by +/- 22.5° on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  **side-by-side mounting**  **bight**  **inthe indepth**  114 mm  width  55 mm  depth  **orwards and short and an according to DIN EN 60715  **side-by-side mounting  • with side-by-side mounting  - downwards  — at the side  — downwards  — at the side  — downwards  • for grounded parts  — forwards  — at the side  — downwards  • for live parts  — forwards  — upwards  — downwards  — ownwards  — own		
Short-circuit protection   design of the fuse link		·
design of the fuse link		7,000 7 7 000
• for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  • /-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  • side-by-side mounting  • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • onwards  — downwards  — downwards  — on mm  • for grounded parts  — forwards  — upwards  — at the side  — downwards  • for live parts  — forwards  — upwards  — ownwards  • for live parts  — forwards  — upwards  — upwards  — ownwards  — forwards  — upwards  — forwards  — ownwards		
- with type of coordination 1 required  - with type of assignment 2 required  - with type of assignment 2 required  - with type of assignment 2 required  - for short-circuit protection of the auxiliary switch required  - for short-circuit protection of the auxiliary switch required  - for short-circuit protection of the auxiliary switch required  - for short-circuit protection of the auxiliary switch required  - for short-circuit protection of the auxiliary switch required such as the side of the state of t		
(415 V, 80 kA) gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415 V,80kA) • for short-circuit protection of the auxiliary switch required required  installation/ mounting/ dimensions  mounting position  #/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface scew and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  • side-by-side mounting  • side-by-side mounting  width  #/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting surface; can be tilted forward and backward by +/- 22.5" on vertical mounting rail according to DIN EN 60715  • side-by-side mounting  • width 45	•	O 050 A (000 V 400 LA)
• for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  fastening method  • side-by-side mounting  • side-by-side mounting  height  114 mm  width  55 mm  depth  required spacing  • with side-by-side mounting  — forwards  — upwards  — at the side  • for grounded parts  — upwards  — upwards  — upwards  — torwards  — upwards  — torwards  — torwards  — upwards  — torwards  — torwards  — to mm  • for ilve parts  — forwards  — upwards  — torwards  — torwards  — to mm  • downwards  • to mm  • for live parts  — forwards  — upwards  — upwards  — downwards  • to mm  • for live parts  — forwards  — upwards  — downwards  • to mm  • for live parts  — forwards  — upwards  — downwards  • to mm  • downwards  — to mm  • for live parts  — forwards  — upwards  — upwards  — upwards  — downwards  • to mm  • downwards  — to mm  • downwards  — upwards  — upwards  — upwards  — upwards  — to mm		(415 V, 80 kA)
Installation/ mounting/ dimensions  mounting position	<ul> <li>— with type of assignment 2 required</li> </ul>	
Installation/ mounting/ dimensions		gG: 10 A (500 V, 1 kA)
mounting position  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  • side-by-side mounting  • side-by-side mounting  Height  114 mm  width  55 mm  depth  130 mm  required spacing  • with side-by-side mounting  — forwards  — upwards  — upwards  — at the side  • for grounded parts  — forwards  — upwards  — upwards  — to mm  • for grounded parts  — forwards  — upwards  — at the side  — downwards  — at the side  — downwards  — at the side  — downwards  — to mm  • for live parts  — forwards  — upwards  — downwards  — upwards  — downwards  — downwards  — downwards  — downwards  — downwards  — downwards  — upwards  — downwards  — at the side  6 mm	·	
fastening method screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  • side-by-side mounting Yes  height 114 mm width 55 mm depth 130 mm  required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — downwards — of mm — the side — for grounded parts — forwards — the side — forwards — the side — downwards — at the side — downwards — the side — downwards — to mm  • for live parts — forwards — upwards — upwards — upwards — to mm — downwards — to mm — upwards — downwards — to mm — upwards — forwards — upwards — to mm — upwards — to mm — upwards — downwards — to mm — upwards — downwards — to mm — upwards — to mm — upwards — downwards — to mm — upwards — to mm		
e side-by-side mounting  Yes  height  114 mm  width  55 mm  depth  130 mm  required spacing  ● with side-by-side mounting  — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — at the side — downwards — at the side — forwards — at the side — formards — upwards — at the side — downwards — to mm  • for live parts — forwards — upwards — upwards — forwards — downwards — downwards — downwards — forwards — forwards — forwards — downwards — forwards — forwards — forwards — forwards — downwards — to mm — downwards — forwards		forward and backward by +/- 22.5° on vertical mounting surface
height         114 mm           width         55 mm           depth         130 mm           required spacing         10 mm           • with side-by-side mounting         10 mm           — forwards         10 mm           — upwards         10 mm           — at the side         0 mm           • for grounded parts         10 mm           — forwards         10 mm           — at the side         6 mm           • for live parts         10 mm           — forwards         10 mm           — upwards         10 mm           — downwards         10 mm           — downwards         10 mm           — at the side         6 mm	fastening method	
width         55 mm           depth         130 mm           required spacing         10 mm           • with side-by-side mounting         10 mm           — forwards         10 mm           — upwards         10 mm           — at the side         0 mm           • for grounded parts         10 mm           — upwards         10 mm           — at the side         6 mm           — downwards         10 mm           • for live parts         10 mm           — upwards         10 mm           — downwards         10 mm           — downwards         10 mm           — at the side         6 mm	side-by-side mounting	Yes
depth         130 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         10 mm           — upwards         10 mm           — at the side         6 mm           — downwards         10 mm           • for live parts         10 mm           — upwards         10 mm           — downwards         10 mm           — downwards         10 mm           — at the side         6 mm	height	114 mm
required spacing	width	55 mm
<ul> <li>with side-by-side mounting</li> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>o mm</li> <li>o for grounded parts</li> <li>— forwards</li> <li>— upwards</li> <li>— upwards</li> <li>— at the side</li> <li>— at the side</li> <li>— downwards</li> <li>for live parts</li> <li>— forwards</li> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— downwards</li> <li>— at the side</li> <li>6 mm</li> </ul>	depth	130 mm
— forwards       10 mm         — upwards       10 mm         — downwards       10 mm         — at the side       0 mm         • for grounded parts       10 mm         — upwards       10 mm         — at the side       6 mm         — downwards       10 mm         • for live parts       10 mm         — upwards       10 mm         — downwards       10 mm         — downwards       10 mm         — at the side       6 mm	required spacing	
— forwards       10 mm         — upwards       10 mm         — downwards       10 mm         — at the side       0 mm         • for grounded parts       10 mm         — upwards       10 mm         — at the side       6 mm         — downwards       10 mm         • for live parts       10 mm         — upwards       10 mm         — downwards       10 mm         — downwards       10 mm         — at the side       6 mm	<ul> <li>with side-by-side mounting</li> </ul>	
— upwards       10 mm         — downwards       10 mm         — at the side       0 mm         • for grounded parts       10 mm         — upwards       10 mm         — at the side       6 mm         — downwards       10 mm         • for live parts       10 mm         — upwards       10 mm         — downwards       10 mm         — downwards       10 mm         — at the side       6 mm	,	10 mm
— downwards       10 mm         — at the side       0 mm         ● for grounded parts       10 mm         — forwards       10 mm         — upwards       6 mm         — downwards       10 mm         ● for live parts       10 mm         — upwards       10 mm         — downwards       10 mm         — at the side       6 mm		
<ul> <li>— at the side</li> <li>● for grounded parts</li> <li>— forwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> <li>● for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>— upwards</li> <li>— downwards</li> <li>— downwards</li> <li>— downwards</li> <li>— downwards</li> <li>— at the side</li> <li>0 mm</li> <li>10 mm</li> <li>— downwards</li> <li>— at the side</li> <li>0 mm</li> <li>6 mm</li> </ul>	·	
<ul> <li>for grounded parts</li> <li>forwards</li> <li>upwards</li> <li>at the side</li> <li>downwards</li> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>mm</li> <li>upwards</li> <li>downwards</li> <li>mm</li> <li>downwards</li> <li>at the side</li> <li>6 mm</li> </ul>		
— forwards       10 mm         — upwards       10 mm         — at the side       6 mm         — downwards       10 mm         • for live parts       10 mm         — upwards       10 mm         — downwards       10 mm         — at the side       6 mm		
— upwards       10 mm         — at the side       6 mm         — downwards       10 mm         • for live parts       10 mm         — upwards       10 mm         — downwards       10 mm         — at the side       6 mm		10 mm
<ul> <li>— at the side</li> <li>— downwards</li> <li>• for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— downwards</li> <li>— at the side</li> <li>6 mm</li> </ul>		
<ul> <li>— downwards</li> <li>● for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>10 mm</li> <li>10 mm</li> <li>6 mm</li> </ul>	·	
<ul> <li>for live parts</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> 10 mm 10 mm 6 mm		
<ul> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>10 mm</li> <li>10 mm</li> <li>mm</li> <li>6 mm</li> </ul>		10 111111
<ul> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>10 mm</li> <li>6 mm</li> </ul>	•	
<ul><li>downwards</li><li>at the side</li><li>6 mm</li></ul>		
— at the side 6 mm	•	
	— downwards	10 mm
Connections/ Terminals	— at the side	6 mm
	Connections/ Terminals	

type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
• for main contacts	
<ul> <li>solid or stranded</li> </ul>	2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (1 25 mm²), 1x (1 35 mm²)
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (18 2), 1x (18 1)
connectable conductor cross-section for main contacts	
<ul> <li>finely stranded with core end processing</li> </ul>	1 35 mm²
connectable conductor cross-section for auxiliary contacts	
<ul><li>solid or stranded</li></ul>	0.5 2.5 mm²
<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>	
<ul><li>— solid or stranded</li></ul>	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>at AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 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	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation according to IEC 60947- 5-1</li> </ul>	No
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 y
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
suitability for use	
<ul> <li>safety-related switching OFF</li> </ul>	Yes
Certificates/ approvals	

### Certificates/ approvals

# **General Product Approval**





Confirmation



Miscellaneous

<u>KC</u>

General Product	
Approval	

**EMC** 

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 

EAC



Type Examination Certificate



Special Test Certificate

**Test Certificates** 

#### Marine / Shipping

Type Test Certificates/Test Report











Marine / Shipping

other

Railway

**Dangerous Good** 





Confirmation

Confirmation

Vibration and Shock

Transport Information

## **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=3RT2037-1NB30

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2037-1NB30}$ 

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NB30

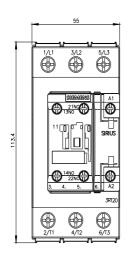
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

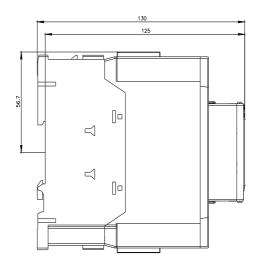
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1NB30&lang=en

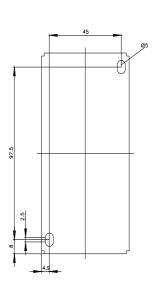
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NB30/char

Further characteristics (e.g. electrical endurance, switching frequency) <a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1NB30&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1NB30&objecttype=14&gridview=view1</a>







last modified:

2/15/2022