# **SIEMENS**

Data sheet 3RT2037-1NB34



Power contactor, AC-3 65 A, 30 kW / 400 V 2 NO + 2 NC, AC / DC 20-33 V, with varistor 3-pole, size S2 screw terminals

product designation Power contactor 3RT2  General technical data size of contactor Product extension	product brand name	SIRIUS
Section   Sect	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  • 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 vith degree of pollution 3 rated value  • of auxiliary circuit vith degree of pollution 3 rated value  • of auxiliary circuit vith degree of pollution 3 rated value  • of auxiliary circuit vith degree of pollution 3 rated value  • of auxiliary circuit vith degree of pollution 3 rated value  • of main circuit rated value  • of auxiliary switch  • at AC  • at DC  • at AC  • at DC  • at AC  • at DC  • of contactor with sine pulse  • at AC  • at DC  • of contactor typical  • of the contactor with added electronically optimized auxiliary switch block typical  • of the contactor with added electronically optimized auxiliary switch block 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 typic	product type designation	3RT2
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 • 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 the contactor with added electronically optimized 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 Q Substance Prohibitance (Date)  of utring operation  volume and volume value • during operation  volume value  volum	General technical data	
• 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 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  surge voltage resistance • of main 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 • at AC • at DC • at AC • at DC • at AC • at DC • of contactor with sine pulse • at AC • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary swit	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 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 surge voltage resistance of main circuit rated value of auxiliary circuit rated value of without load coording to EN 60947-1  shock resistance at rectangular impulse of at AC official offi	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 auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of main incruit rated value of auxiliary circuit rated value of at AC of auxiliary circuit rated value of at AC of at C 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 auxiliary switch block typical reference code according to IEC 81346-2 Quut auxiliary switch block of the contactor with added auxiliary switch block of typical reference code according to IEC 81346-2 Quut auxiliary switch block of the contactor with added auxiliary switch block of typical reference code according to IEC 81346-2 Quut auxiliary switch block of the contactor with added auxiliary switch block of typical reference code according to IEC 81346-2 Quut auxiliary switch block of the contactor with added auxiliary switch block of typical reference code according to IEC 81346-2 Quut auxiliary switch block of the contactor with added auxiliary switch block of the contactor with	<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   value    surge voltage resistance   of main circuit rated value   of auxiliary swith sine pulse   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   reference code according to IEC 81346-2   Quut auxiliary switch block typical   reference code according to IEC 81346-2   Quut auxiliary auxiliary auxiliary auxiliary switch block typical   reference code according to IEC 81346-2   Quut auxiliary a	auxiliary switch	No
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 surge voltage resistance of main circuit rated value of auxiliary circuit rated value of avxiliary circuit rated value of auxiliary switch sine pulse of at AC of at DC of at DC of contactor with sine pulse of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added duxiliary 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 Question auxiliary switch block typical reference code according to IEC 81346-2 Question auxiliary switch block typical reference code according to IEC 81346-2 Question auxiliary switch block typical reference code according to IEC 81346-2 Question auxiliary switch block typical reference code according to IEC 81346-2 Question auxiliary switch block typical circuit 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	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 main circuit rated value of main 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 of at AC of the Contactor with sine pulse of the Contactor with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary swit	<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 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of kV  waximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse of at AC of at DC of at DC of at DC 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 reference code according to IEC 81346-2  Substance Prohibitance (Date)  ambient temperature of uring operation  of with eduration attitude at height above sea level maximum ambient temperature of uring operation  of stage of pollution 3 rated value of the contactor of the contactor with added of the contactor with added auxiliary switch block of the contactor with added a	<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 at DC     of at DC     of at DC     of at DC     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 (Date)     10/01/2014  Ambient conditions  installation altitude at height above sea level maximum     ambient temperature     of during operation  of auxiliary in with degree of pollution 3 rated     of the Contactor with added auxiliary switch block     value     of the contactor with added auxiliary switch block     value     of the contactor with added auxiliary switch block     value     of the contactor with added auxiliary switch block     value     of the contactor with added auxiliary switch block     value     of the contactor with added auxiliary switch block     value     of the contactor with added auxiliary switch block     value     of the contactor with added auxiliary switch block     value     of the contactor with added auxiliary switch block     value     of the contactor with added auxiliary switch block     value     of the contactor with added auxiliary switch block     value     of the contactor with added auxiliary switch block     value	without load current share typical	2 W
of auxiliary circuit with degree of pollution 3 rated value  surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     of the Contacts according to EN 60947-1  shock resistance at rectangular impulse     of at DC     of contactor with sine pulse     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	insulation voltage	
surge voltage resistance  of main 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 AC ot DC  shock resistance with sine pulse ot AC ot DC  shock re	<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     maximum 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     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  shock resistance with sine pulse     o at DC  o at DC  shock resistance with sine pulse  o at AC     o 6.1g / 5 ms, 3.7g / 10 ms  shock resistance with groups  o at DC  shock resistance with groups  o at AC  shock president groups  o at AC  shock president groups  o at AC  shock president groups  o at AC		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  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)  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 • at DC • at AC • at DC • at AC • at DC • of contactor with sine pulse • of contactor typical • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical	of main circuit rated value	6 kV
shock resistance at rectangular impulse  at AC at DC at AC at DC at AC a	of auxiliary circuit rated value	6 kV
<ul> <li>at AC</li> <li>at DC</li> <li>5hock resistance with sine pulse</li> <li>at AC</li> <li>at AC</li> <li>at DC</li> <li>9.6g / 5 ms, 5.8g / 10 ms</li> <li>at DC</li> <li>9.6g / 5 ms, 5.8g / 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>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>auxiliary auxiliary auxiliary auxiliary switch block</li> <li>co00 m</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  shock resistance with sine pulse  at DC  shock resistance with sine pulse  at AC  at DC  shock resistance with sine pulse  at AC  shock resistance with sine pulse  shock resistance with shock shock shock on shock	shock resistance at rectangular impulse	
shock resistance with sine pulse	• at AC	6.1g / 5 ms, 3.7g / 10 ms
<ul> <li>at AC</li> <li>at DC</li> <li>9.6g / 5 ms, 5.8g / 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	6.1g / 5 ms, 3.7g / 10 ms
at DC     g.6g / 5 ms, 5.8g / 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     oduring operation  9.6g / 5 ms, 5.8g / 10 ms  10 000 000  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  reference code according to IEC 81346-2  Substance Prohibitance (Date)  installation altitude at height above sea level maximum ambient temperature of during operation  10 000 000 10 00	• at AC	9.6g / 5 ms, 5.8g / 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>20 000 000</li> </ul>	• at DC	9.6g / 5 ms, 5.8g / 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  Q  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum  ambient temperature of during 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  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  -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 humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
ain circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	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
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	80 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	70 A
• 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
<ul> <li>at AC-4 at 400 V rated value</li> </ul>	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 value	56.9 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	56.9 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	56.9 A
— up to 690 V for current peak value n=20 rated value	47 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	38 A
— up to 400 V for current peak value n=30 rated value	38 A 38 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated</li> </ul>	38 A
value minimum cross-section in main circuit at maximum AC-1	25 mm²
rated value 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 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-3 maximum	700 1/h
at AC-3 maximum     at AC-3e maximum	700 1/h
at AC-3e maximum     at AC-4 maximum	700 1/h 200 1/h
	200 1/11
Control circuit/ Control	40/00
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	20 22 1/
• at 50 Hz rated value	20 33 V
at 60 Hz rated value	20 33 V
control supply voltage at DC	22 221
• rated value	20 33 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• 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 instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	6 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 110 v lated value	VII

* at 125 V rated value   2 A   1		
• al 600 V rated value	<ul> <li>at 125 V rated value</li> </ul>	2 A
operational current at DC-13	<ul> <li>at 220 V rated value</li> </ul>	1 A
e. at 24 V rated value	at 600 V rated value	0.15 A
eli 48 Virietal value	operational current at DC-13	
	<ul> <li>at 24 V rated value</li> </ul>	6 A
e at 110 V rated value	at 48 V rated value	2 A
• at 125 V rated value • 220 V rated value • 3 at 600 V rated value • 4 480 V rated value • 3 at 600 V rated value • 4 at 600 V rated value • 5 A • 6 A	at 60 V rated value	2 A
• at 220 V rated value	at 110 V rated value	1 A
• at 220 V rated value	at 125 V rated value	0.9 A
• at 800 V rated value  contact reliability of auxillary contacts  ULICSA ratings  Tull-load current (FLA) for 3-phase AC motor  • at 800 V rated value  • at 800 V rated value  • at 800 V rated value  • for single-phase AC motor  — at 110/120 V rated value  • for single-phase AC motor  — at 200208 V rated value  • for 3-phase AC motor  — at 220/230 V rated value  • for 3-phase AC motor  — at 220/230 V rated value  • for 3-phase AC motor  — at 220/230 V rated value  • at 220/230 V rated value  • at 220/230 V rated value  — at 260-600 V rated value  — at 60-6049 0 V rated value  — at 60-6049 0 V rated value  — at 60-6049 0 V rated value  — at 60-6050 V rated value  — at 60-600 V rated value  — at 60-6049 0 V rated value  — at 60-6000 V rated value  — with type of constants according to UL  Short-circuit protection of the main circuit  — with type of constants or required  — for short-circuit protection of the auxiliary switch  — ger-128A (690V-100AA), aM: 63A (690V, 100 AA), BS88: 200 A  (415V, 80 AA)  • for short-circuit protection of the auxiliary switch  — for shor		
Contact reliability of auxiliary contacts		
Short-circuit protection of the main circuit   with type of assignment 2 required   with type of assignment 3 with type of assignment 4 with type of assignment 5 with type of as		
Tull-load current (FLA) for 3-phase AC motor   • at 480 V rated value   65 A     • at 600 V rated value   52 A     yielded mechanical performance [hp]     • for single-phase AC motor     • at 100/120 V rated value   5 hp     • for single-phase AC motor     • at 200/208 V rated value   20 hp     • at 220/230 V rated value   50 hp     • at 260/2030 V rated value   50 hp     • at 260/2030 V rated value   50 hp     • at 460/480 V rated value   50 hp     • at 460/480 V rated value   50 hp     • at 575/600 V rated value   50 hp     • at 575/600 V rated value   50 hp     • or antar traing 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 assignment 2 required   (415, 98, ka)     • for short-circuit protection of the auxiliary switch required   (415, 98, ka)     • for short-circuit protection of the auxiliary switch required   (415, 98, ka)     • for short-circuit protection of the auxiliary switch required   (415, 98, ka)     • for short-circuit protection of the auxiliary switch required   (415, 98, ka)     • for short-circuit protection of the auxiliary switch required   (415, 98, ka)     • for short-circuit protection of the auxiliary switch required   (415, 98, ka)     • for short-circuit protection of the auxiliary switch required   (415, 98, ka)     • for short-circuit protection of the auxiliary switch required   (415, 98, ka)   (52, 10 A (500 V, 10 kA), alf: 60 A (690 V, 100 kA), BS88: 200 A (415, 98, ka)     • for short-circuit protection of the auxiliary switch required   (415, 98, ka)   (53, 10 A (500 V, 10 kA), alf: 60 A (690 V, 100 kA), BS88: 200 A (415, 98, ka)     • for short-circuit protection of the auxiliary switch required   (415, 98, ka)   (53, 10 A (500 V, 10 kA), alf: 60 A (690 V, 100 kA), BS88: 200 A (415, 98, ka)     • for short-circuit protection of the auxiliary switch required   (415, 98, ka)   (53, 10 A (500 V, 10 kA), alf: 60 A (690 V, 100 kA), alf: 60 A (690 V, 100 kA),		r laulty switching per 100 million (17 V, 1 mA)
• at 480 V rated value • at 600 V rated value • at 600 V rated value  yleided mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 200/208 V rated value — at 260/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — with type of coordination 1 required — with type of coordination 1 required — with type of coordination 1 required • for short-diruit protection of the main circuit — with type of assignment 2 required • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • for short-diruit protection of the auxiliary switch required  • side-by-side mounting  • side-by-side mounting  • with side-by-side mounting  • f		
• at 600 V rated value   52 A		05.4
vielded mechanical performance [hp]   • for single-phase AC motor   — at 110/120 V rated value   10 hp     • for 3-phase AC motor     — at 2200/208 V rated value   20 hp     — at 2200/208 V rated value   20 hp     — at 260/800 V rated value   50 hp     — at 460/880 V rated value   50 hp     — at 575/600 V rated value   50 hp     — at 575/600 V rated value   50 hp     — at 575/600 V rated value   50 hp     — at 675/600 V rated value   50 hp     — with type of coordination 1 required   96: 125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)     GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)     GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)     GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)     GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)     GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)     GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)     GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)     GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)     GS (125A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), aM: 160		
• 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 460/480 V rated value — at 575/900 V rated value — at 60/480 V rated value — at 60/480 V rated value — at 60/480 V rated value — at 60 short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required (415 V, 80 kA) — with type of assignment 2 required (415 V, 80 kA) — with type of assignment 2 required (415 V, 80 kA)  • for short-circuit protection of the auxiliary switch required (Installation/ mounting/ dimensions  mounting position  **-180" rotation possible on vertical mounting surface; can be titled 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  **es  depth  required spacing  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  • of or grounded parts — downwards — downwards — 10 mm — at the side  • for grounded parts — forwards — 10 mm  • of or ive parts — forwards • for live parts — forwards — at the side — downwards • for live parts — forwards — ownwards • for live parts — forwards — ownwards • for mm — ownwards —		52 A
- at 110/120 V rated value - at 230 V rated value - 10 hp - 10		
■ 1230 V rated value ■ for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 4575/600 V rated value — at 4575/600 V rated value — at 575/600 V rated value — other circuit protection  design of the fuse link ■ for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required — with type of sassignment 2 required — for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method ■ side-by-side mounting ■ height  width ■ 55 mm  depth  required spacing ■ with side-by-side mounting ■ with side-by-side mounting ■ or invards — upwards — at the side — downwards ■ 10 mm  - upwards — at the side — downwards ■ for live parts — forwards — odwnwards ■ for live parts — forwards — upwards — odwnwards —	<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 480/480 V rated value — at 480/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 675/600 V rated value  - at 75/600 V	<ul> <li>— at 110/120 V rated value</li> </ul>	5 hp
- at 200/208 V rated value	— at 230 V rated value	10 hp
at 220/230 V rated value at 460/480 V rated value 50 hp -	• for 3-phase AC motor	
at 220/230 V rated value at 460/480 V rated value 50 hp -	— at 200/208 V rated value	20 hp
- at 460/480 V rated value	— 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		
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  Installation/ mounting/ dimensions  mounting position  **Table Toward 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  • with side-by-side mounting  • with side-by-side mounting  • with side-by-side mounting  — forwards  — downwards  — at the side  — downwards  • for grounded parts  — forwards  — at the side  — downwards  — ownwards  —		
Short-circuit protection   design of the fuse link   • for short-circuit protection of the main circuit   - with type of coordination 1 required   (415 V, 80 kA)   (415 V, 80		
design of the fuse link  • for short-circuit protection of the main circuit  — 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  — for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA)  — with side on wortical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be tilted forward and backward by #-1-22.6" on vertical mounting surface; can be		
• for short-circuit protection of the main circuit  — 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  — with type of assignment 2 required  — for short-circuit protection of the auxiliary switch required  — with type of assignment 2 required  — for short-circuit protection of the auxiliary switch required  — with required  — with required  — with side-oby-side mounting  — 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  — of onwards — upwards — downwards — of mards — upwards — of with side-by-side mounting  — forwards — at the side — downwards — of mm  — forwards — upwards — of mm  — forwards — upwards — ownwards — ownward		
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  with type of assignment 2 required  for short-circuit protection of the auxiliary switch required  with type of assignment 2 required  with side-by-side mounting  with side-by-side mounting 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 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 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 surface: can be tilted forward and backward by +/- 22.5° on vertical mounting sur	_	
(415 V, 80 KA)  - with type of assignment 2 required  of cr short-circuit protection of the auxiliary switch required  of or 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 can be tilted forward and backward by +/- 22.5" on vertical mounting surface serve and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715  • *side-by-side mounting  • *side-by-side mounting  width  forwards  - upwards  - upwards  - downwards  - at the side  - downwards  - at the side  - downwards  - at the side  - forwards  - forwards  - forwards  - at the side  - forwards  - forwards  - forwards  - forwards  - forwards  - at the side  - forwards  - forwards  - forwards  - forwards  - at the side  - forwards  - upwards  - forwards  - forwards  - forwards  - forwards  - at the side  - forwards  - upwards  - forwards  - forwards  - upwards  - forwards  - forwards  - forwards  - forwards  - forwards  - upwards  - forwards  - forwards  - upwards  - forwards  - upwards  - forwards  - forwards  - upwards  - forwards  - forwards  - upwards  - forwards  - upwards  - forwards  - forwards  - upwards  - downwards  - downwards  - downwards  - downwards  - at the side  - downwards  - downwards  - downwards  - downwards  - at the side  - downwards  - downw	·	O 050 A (000 ) ( 400   A)
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     * ves  height     #-/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface  **every 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  **esemble of the mounting of the standard mounting rail according to DIN EN 60715  **esemble of the mounting of the standard mounting rail according to DIN EN 60715  **every and the side of the mounting of the standard mounting rail according to DIN EN 60715  **every and the side of the mounting of the standard mounting surface; can be tilted forwards on vertical mounting surface; can be tilted forward and backwards on vertical mounting surface; can be tilted forwards on vertical mounting surface; can be tilted forwards on vertical mounting surface; can be tilted forward and backwards on vertical mounting surface; can be tilted forwards on vertical mount		(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  required spacing  • with side-by-side mounting  — forwards — upwards — downwards — at the side  • for grounded parts — forwards — upwards — upwards — at the side — downwards — odwnwards — of or grounded parts — forwards — upwards — at the side — downwards — to mm  • for live parts — forwards — upwards — upwards — odwnwards — odwnwards — odwnwards — odwnwards — odwnwards — odwnwards — upwards — odwnwards — odwnward		
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 174 mm  required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for mm  - downwards — of mm  - of mwards - of mm  - of mwards - of mm  - of orwards - of ownwards - of omm - of ownwards - of ownwards - of omm - of ownwards - of omm - of ownwards - of omm - of ownwards - of ownwards - of omm - of ownwards - of ownwards - of omm		
e side-by-side mounting  Pes  height  ### Midth  ### M		forward and backward by +/- 22.5° on vertical mounting surface
height         114 mm           width         55 mm           depth         174 mm           required spacing         174 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         174 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           — forwards         10 mm           — upwards         10 mm           — downwards         10 mm           — downwards         10 mm           — at the side         6 mm	side-by-side mounting	Yes
depth     174 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       — forwards     10 mm       — upwards     10 mm       — downwards     10 mm       — downwards     10 mm       — at the side     6 mm	height	114 mm
required spacing  ● with side-by-side mounting  — forwards  — upwards  — downwards  — at the side  ● for grounded parts  — forwards  — upwards  — upwards  — at the side  — downwards  — at the side  — forwards  — at the side  — downwards  ● for live parts  — forwards  — upwards  — upwards  — to mm  — downwards  10 mm  ● for live parts  — forwards  — upwards  — upwards  — to mm	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>— at the side</li> <li>— at the side</li> <li>— at the side</li> <li>— downwards</li> <li>— for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>— to mm</li> <li>— odwnwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>6 mm</li> </ul>	depth	174 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>— at the side</li> <li>— at the side</li> <li>— at the side</li> <li>— downwards</li> <li>— for live parts</li> <li>— forwards</li> <li>— upwards</li> <li>— to mm</li> <li>— odwnwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> <li>6 mm</li> </ul>	required spacing	
— upwards       10 mm         — downwards       10 mm         — at the side       0 mm         • for grounded parts       10 mm         — forwards       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         — forwards       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	— forwards	10 mm
<ul> <li>— downwards</li> <li>— at the side</li> <li>● for grounded parts</li> <li>— forwards</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>— upwards</li> <li>— to mm</li> <li>— odwnwards</li> <li>— upwards</li> <li>— upwards</li> <li>— downwards</li> <li>— downwards</li> <li>— at the side</li> <li>6 mm</li> </ul>		
<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>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>upwards</li> <li>downwards</li> <li>mm</li> <li>upwards</li> <li>downwards</li> <li>mm</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> <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>6 mm</li> </ul>		10 IIIIII
<ul> <li>upwards</li> <li>downwards</li> <li>at the side</li> <li>10 mm</li> <li>6 mm</li> </ul>	•	40
<ul><li>downwards</li><li>at the side</li><li>6 mm</li></ul>		
— at the side 6 mm	•	
Connections/ Terminals		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



<u>KC</u>



Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

### Marine / Shipping













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=3RT2037-1NB34

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2037-1NB34}}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NB34

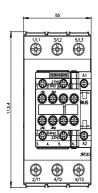
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

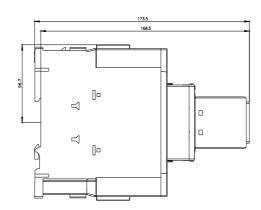
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1NB34&lang=en

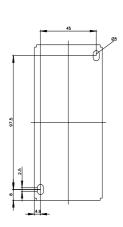
Characteristic: Tripping characteristics, I2t, Let-through current

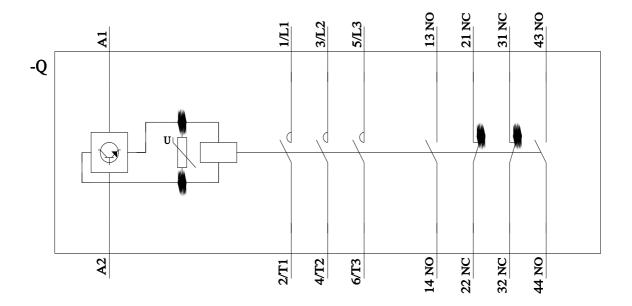
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1NB34/char

Further characteristics (e.g. electrical endurance, switching frequency) <a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1NB34&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1NB34&objecttype=14&gridview=view1</a>









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