## SIEMENS

## Data sheet

## 3RT2018-1BB41



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO, screw terminal, size: S00  $\,$ 

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	3 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	1 W
<ul> <li>without load current share typical</li> </ul>	4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Weight	0.29 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
during operation	-25 +60 °C
<ul> <li>during storage</li> </ul>	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Environmental footprint			
Environmental Product Declaration(EPD)	Yes		
Global Warming Potential [CO2 eq] total	153 kg		
Global Warming Potential [CO2 eq] during manufacturing	1.42 kg		
Global Warming Potential [CO2 eq] during operation	152 kg		
Global Warming Potential [CO2 eq] after end of life	-0.305 kg		
Main 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			
• at AC-1 at 400 V at ambient temperature 40 °C rated value	22 A		
<ul> <li>at AC-1</li> <li>— up to 690 V at ambient temperature 40 °C rated</li> </ul>	22 A		
value — up to 690 V at ambient temperature 60 °C rated value	20 A		
• at AC-3			
— at 400 V rated value	16 A		
— at 500 V rated value	12.4 A		
— at 690 V rated value	8.9 A		
• at AC-3e			
— at 400 V rated value	16 A		
— at 500 V rated value	12.4 A		
— at 690 V rated value	8.9 A		
• at AC-4 at 400 V rated value	11.5 A		
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	19.4 A		
<ul> <li>at AC-5b up to 400 V rated value</li> </ul>	13.2 A		
● at AC-6a			
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>	9.6 A		
— up to 400 V for current peak value n=20 rated value	9.6 A		
— up to 500 V for current peak value n=20 rated value	9.6 A		
— up to 690 V for current peak value n=20 rated value	8.9 A		
at AC-6a     up to 230 V for current peak value n=30 rated value	664		
<ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	6.6 A		
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>	6.4 A 6.4 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 value</li> </ul>	6.4 A		
minimum cross-section in main circuit at maximum AC-1 rated	0.4 A 4 mm <sup>2</sup>		
value operational current for approx. 200000 operating cycles at			
AC-4			
• at 400 V rated value	5.5 A		
• at 690 V rated value	4.4 A		
operational current			
• at 1 current path at DC-1			
— at 24 V rated value	20 A		
— at 60 V rated value	20 A		
— at 110 V rated value	2.1 A		
— at 220 V rated value	0.8 A		
— at 440 V rated value	0.6 A		
— at 600 V rated value	0.6 A		
• with 2 current paths in series at DC-1	20.4		
- at 24 V rated value	20 A		
— at 60 V rated value	20 A		
— at 110 V rated value	12 A		
— at 220 V rated value — at 440 V rated value	1.6 A 0.8 A		
	0.7 A		
— at 600 V rated value	U.I A		

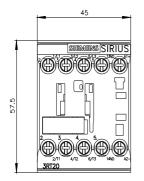
• with 2 during paths in Series at U-1		
	with 3 current paths in series at DC-1	
- at 40 V mice value13.A- at 40 V mice value1A- at 30 V ratic value20.A- at 30 V ratic value0.5 A- at 10 V ratic value0.5 A- at 10 V ratic value20.A- at 20 V ratic value75 KW- at 20 V ratic value25 KW- at 20 V ratic value25 KW- at 20 V ratic value25 KW- at 20 V ratic value38 KW- at 20 V ratic value38 KW- at 20 V ratic value38 KW- at 20 V ratic value25 KW- at 20 V ratic value38 KW<		
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		1 A
- af 60 Y taidet value0.5 A- af 11 V Y taidet value0.15 A- af 24 Y taidet value20 A- af 24 Y taidet value20 A- af 30 V taidet value0.35 A- aft 30 V taidet value20 A- aft 40 V tradet value20 A- aft 400 V tradet value20 A- aft 400 V tradet value7.5 kW- aft 400 V tradet value2.5 kW- aft 400 V tradet value2.5 kW- aft 400 V tradet value3.6 kVA- aft 400 V tradet value3.6 kVA- aft 400 V fradet value3.6 kVA- aft 400 V fradet value ne-20 rated value3.6 kVA- aft 400 V fradet value ne-20 rated value3.6 kVA- aft 400 V fradet value ne-20 rated value3.6 kVA- aft 400 V fradet value ne-20 rated value4.6 kVA- aft 400 V fradet value ne-20 rated value4.6 kVA- aft 400 V fradet value ne-20 rated value	-	
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af 24 V relations20 A af 30 V rated value5 A af 30 V rated value35 A af 30 V rated value20 A af 300 V rated value20 A af 300 V rated value20 A af 300 V rated value75 kW af 300 V rated value100 kNA- af 400 V rated value25 kW- af 400 V rated value100 kNA- af 400 V rated value38 kVA- up to 500 V for current peak value ne30 rated value58 kVA- up to 500 V for current peak value ne30 rated value58 kVA- up to 500 V for current peak value ne30 rated value58 kVA- up to 500 V for current peak value ne30 rated value58		0.15 A
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with 3 current paths in series at DC-3 at DC-3		
		0.35 A
- at 110 V rated value20 A- at 220 V rated value1.5 A- at 600 V rated value0.2 Aoperating power0.2 A- at 600 V rated value0.2 A- at 230 V rated value7.5 kW- at 600 V rated value8.5 kW- at 600 V rated value8.5 kW- at 600 V rated value8.5 kW- at 600 V rated value - 20 rated value8.3 kVA• up 6 200 V for current pack value n=20 rated value8.3 kVA• up 6 500 V for current pack value n=20 rated value8.3 kVA• up 6 200 V for current pack value n=30 rated value7.6 kVA• up 6 200 V for current pack value n=30 rated value7.6 kVA• up 6 200 V for current pack value n=30 rated value7.6 kVA• up 6 200 V for current pack value n=30 rated value7.6 kVA• up 6 200 V for current pack value n=30 rated value7.6 kVA• up 6 200 V for current pack value n=30 rated value7.6 kVA• up 6 200 V for		
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• up to 690 V for current peak value n=30 rated value7.6 kVAshort-time withstand current in cold operating state up to 40 °C300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum300 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum128 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum120 Ch• at DC10 000 1/h• at DC10 000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h		
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Imited to 30 s switching at zero current maximum92 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching at zero current maximum74 A; Use minimum cross-section acc. to AC-1 rated valueImited to 60 s switching frequency10 000 1/hImited to 2010 000 1/hImited to 201000 1/hImi	<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	169 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum       74 A; Use minimum cross-section acc. to AC-1 rated value <b>no-load switching frequency</b> -         • at DC       10 000 1/h <b>operating frequency</b> -         • at AC-1 maximum       1000 1/h         • at AC-2 maximum       1000 1/h         • at AC-2 maximum       750 1/h         • at AC-3 maximum       750 1/h	<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	128 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency         I0 000 1/h           • at DC         10 000 1/h           operating frequency         -           • at AC-1 maximum         1 000 1/h           • at AC-2 maximum         750 1/h           • at AC-3 maximum         750 1/h	<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	92 A; Use minimum cross-section acc. to AC-1 rated value
• at DC         10 000 1/h           operating frequency         -           • at AC-1 maximum         1 000 1/h           • at AC-2 maximum         750 1/h           • at AC-3 maximum         750 1/h	<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	74 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency         1 000 1/h           • at AC-1 maximum         1 000 1/h           • at AC-2 maximum         750 1/h           • at AC-3 maximum         750 1/h	no-load switching frequency	
• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h	• at DC	10 000 1/h
• at AC-2 maximum         750 1/h           • at AC-3 maximum         750 1/h	operating frequency	
• at AC-3 maximum 750 1/h	● at AC-1 maximum	1 000 1/h
	● at AC-2 maximum	750 1/h
• at AC-3e maximum 750 1/h	• at AC-3 maximum	750 1/h
	• at AC-3e maximum	750 1/h

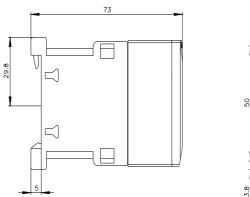
Control to control         Do this           Control Supply voltage 1D C not supply voltage         DC           Control Supply voltage 1D C not supply voltage neted value of magnet Coil at DC         AV           • Initial value         D3           • Initial value         D4           • Initial value         D4 <th>● at AC-4 maximum</th> <th>250 1/h</th>	● at AC-4 maximum	250 1/h
Type of voltage of the control supply voltage         DC           control supply voltage at DC valids value         24 V           control supply voltage at DC valids value         24 V           endiate value         0.8           - Mid rector control supply voltage rated value         0           - Mid rector value         1           closing dear		
control supply voltage at DC rated value         24 V           orgenting mark Control supply voltage rated value Of entities value         0.8           • Hinki value         0.8           • Addroals value         1.1           Obstig power of magnet coll at DC         4 W           Obstig power of magnet coll at DC         4 W           Closing doly         -           • at DC         30 100 ms           Opening dolsy         -           • at DC         7 13 ms           arcing time         10 15 ms           control value of the switch opening mechanism         DAA.           Provide value         1           opening transit         Value of the switch opening mechanism           Provide value         10 A           • at 200 Vraied value <t< th=""><th></th><th>DC.</th></t<>		DC.
operating arise factor control supply voltage rated value of memore col at DC         0.8           • Indicative value         0.8           • Indicative value         1.1           cleasing power of magnet col at DC         4.W           • Indicative value         0.8           • Indicative value         0.8           • Indicative value         0.4           • Indicative value         0.4           • Indicative value         0.4           • Indicative value         0.4           • Indicative value         0.0		
mignal coli al CC         •           • Initial volue         0.5           • Initial volue         0.5           • Colsing power of magnet coll at DC         4.W           • Initial volue         4.W           • Colsing power of magnet coll at DC         4.W           • ell CC         90100 ms           • ell CC         713 ms           • ell CC         1           • ell CC         1015 ms           • ell CC         10.		24 V
• • • • • • • • • • • • • • • • • • •		
closing power of magnet coil at DC     4 W       holding power of magnet coil at DC     4 W       closing doly     4 W       • at DC     30 100 ms       opening doly     7 13 ms       • at DC     7 13 ms       arcing time     10 15 ms       control version of the switch operating mechanism     Standard A1 - A2       Auxiliary structit     10 A       operational current at AC-12 maximum     10 A       operational current at AC-15     1       • at 260 V rated value     10 A       operational current at AC-12 maximum     10 A       • at 260 V rated value     10 A       • at 600 V rated value     10 A       • at 60 V rated value     10 A <th>• initial value</th> <th>0.8</th>	• initial value	0.8
holding power of magnet coll at DC     4 W       closing delay     ant CC       • at CC     30 100 ms       opining delay	• full-scale value	1.1
closing datay     act DC       • at DC     20 100 ms       • at DC     713 ms       • at DC     1015 ms       control version of the switch operating mechanism     Standard A1 - A2       Availancy circuit     10.A       operational current at AC-12 maximum     10.A       operational current at AC-12 maximum     10.A       operational current at AC-12 maximum     10.A       • at 320 V rated value     2.A       • at 320 V rated value     3.A       • at 320 V rated value     3.A       • at 320 V rated value     6.A       • at 320 V rated value     7	closing power of magnet coil at DC	4 W
• a tDC     30 100 ms       opening delay     -       • a tDC     7 13 ms       arcing time     10 15 ms       control version of the switch operating mechanism     30 100 ms       Axillary circuit     10 A       operational current at AC-12 maximum     10 A       operational current at AC-15     10 A       • at 230 V tated value     10 A       operational current at AC-15     10 A       • at 300 V tated value     2 A       • at 300 V tated value     3 A       • at 400 V tated value     2 A       • at 400 V tated value     0 A       • at 125 V tated value     0 A       • at 120 V tated value     0 A       • at 200 V tated valu	holding power of magnet coil at DC	4 W
opening deby         713 ms           • at DC         713 ms           carting time         1015 ms           Control variation of the switch operating mechanism         Standard A1 - A2           Availary circuits         1           control variation of the switch operating mechanism         1           Availary circuits         10           operational current at AC-12 maximum         10 A           operational current at AC-15         -           • at 230 V rated value         3 A           • at 300 V rated value         2 A           • at 300 V rated value         1 A           operational current at DC-12         -           • at 400 V rated value         6 A           • at 400 V rated value         1 A           operational current at DC-12         -           • at 220 V rated value         0 16 A           operational current at DC-13         -           • at 24 V rated value         2 A           • at 20 V rated value         0 A           • at 20 V rated value         0 A           • at 400 V rated value	closing delay	
arcing time     713 ms       arcing time     1015 ms       control version of the switch operating mechanism     Sandrard X1 - A2       Auxiliary vircuit     10       quertal auxiliary contacts for auxiliary contacts instantaneous contact.     1       control version auxiliary contacts instantaneous contacts instantaneous contact.     10 A       operational current at AC-12 maximum     10 A       • at 200 V rated value     3 A       • at 300 V rated value     3 A       • at 400 V rated value     3 A       • at 400 V rated value     6 A       • at 40 V rated value     6 A       • at 40 V rated value     6 A       • at 40 V rated value     1 A       • at 80 V rated value     2 A       • at 80 V rated value     2 A       • at 80 V rated value     2 A       • at 80 V rated value     10 A       • at 80 V rated value     2 A       • at 80 V rated value     2 A       • at 80 V rated value     2 A       • at 80 V rated value     0 A       • at 80 V rated value     0 A       • at 80 V rated value     0 A	• at DC	30 100 ms
arcing time     10 15 ms       control Vorsion of the switch operating mechanism     Standard A1 - A2       Axillary crited     1       operational current at AC-12 maximum     10 A       ot at 00 V rated value     2 A       at 800 V rated value     1 A       operational current at DC-12         at 42 V rated value     6 A       at 10 V rated value     6 A       at 10 V rated value     0 A       at 20 V rated value     0.15 A       operational current at DC-13         at 20 V rated value     0.15 A       operational current at DC-13         at 20 V rated value     0.2 A       at 40 V rated value     0.3 A       at 40 V rated value     0.3 A       at 20 V rated value     0.3 A       at 20 V rated value     0.1 A       contact eriability of auxillary contacts     1 faulty switching per 100 million (17 V, 1 m	opening delay	
control version of the switch operating mechanism         Standard A1 - A2           Auxiliary curcuit         1           contacts         1           contacts         10 A           operational current at AC-12 maximum         10 A           operational current at AC-15         10 A           • at 230 V rade value         3 A           • at 600 V rade value         3 A           • at 600 V rade value         1 A           operational current at AC-12         1 A           • at 800 V rade value         1 A           operational current at DC-12         1 A           • at 80 V rade value         0 A           • at 122 V rade value         0 A           • at 220 V rade value         0 A           • at 220 V rade value         0 A           • at 24 V rade value         0 A           • at 24 V rade value         0 A           • at 20 V rade value         0 A           • at 120 V rade value         0 A           • at 120 V rade value         0 A           • at 120 V rade value         0 A           • at 80 V	• at DC	7 13 ms
Auxiliary circuit         1           number of NO contacts for auxiliary contacts instantaneous original current at AC-12 maximum         10 A           operational current at AC-15         10 A           • at 200 V rated value         10 A           • at 600 V rated value         3 A           • at 600 V rated value         2 A           • at 600 V rated value         1 A           operational current at DC-12         1 A           • at 600 V rated value         6 A           • at 600 V rated value         2 A           • at 600 V rated value         0 1 A           • at 600 V rated value         0 A           • at 600 V rated value<	arcing time	10 15 ms
number of NO contacts for auxiliary contacts instantaneous         1           operational current at AC-12 maximum         10 A           operational current at AC-15         10 A           • at 200 V rated value         3 A           • at 300 V rated value         3 A           • at 300 V rated value         1 A           operational current at AC-15         10 A           • at 400 V rated value         2 A           • at 300 V rated value         1 A           operational current at DC-12         1 A           • at 30 V rated value         6 A           • at 30 V rated value         6 A           • at 30 V rated value         6 A           • at 30 V rated value         2 A           • at 30 V rated value         3 A           • at 30 V rated value         3 A           • at 30 V rated value         2 A           • at 30 V rated value         0 A           • at 30 V rated value         0 A           • at 30 V rated value         1 a	control version of the switch operating mechanism	Standard A1 - A2
contact         operational current at AC-12 maximum         10 A           operational current at AC-15         10 A           • at 400 V rated value         10 A           • at 400 V rated value         2 A           • at 600 V rated value         10 A           • at 600 V rated value         2 A           • at 600 V rated value         10 A           • at 600 V rated value         2 A           • at 600 V rated value         6 A           • at 40 V rated value         6 A           • at 60 V rated value         6 A           • at 60 V rated value         6 A           • at 60 V rated value         7 A           • at 60 V rated value         7 A           • at 60 V rated value         7 A           • at 60 V rated value         10 A           • at 60 V rated value         10 A           • at 60 V rated value         2 A           • at 60 V rated value         2 A           • at 60 V rated value         2 A           • at 60 V rated value         0 A	Auxiliary circuit	
operational current at AC-15       10 A         • at 300 V rated value       10 A         • at 400 V rated value       3 A         • at 500 V rated value       2 A         • at 600 V rated value       1 A         opprational current at DC-12       10 A         • at 80 V rated value       6 A         • at 10 V rated value       3 A         • at 200 V rated value       6 A         • at 200 V rated value       1 A         • at 600 V rated value       2 A         • at 220 V rated value       1 A         • at 600 V rated value       2 A         • at 40 V rated value       2 A         • at 40 V rated value       2 A         • at 40 V rated value       2 A         • at 410 V rated value       2 A         • at 410 V rated value       0 A         • at 20 V rated value       0.3 A         • at 600 V rated value       0.1 A         contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         ULCISA rating       11 A         full-ded current (FLA) for 3-phase AC motor		1
• at 230 V rated value     10 A       • at 200 V rated value     3 A       • at 600 V rated value     1 A       operational current at DC-12     1       • at 240 V rated value     10 A       • at 24 V rated value     6 A       • at 60 V rated value     6 A       • at 61 V rated value     6 A       • at 61 V rated value     6 A       • at 125 V rated value     6 A       • at 220 V rated value     0.15 A       operational current at DC-13     0.15 A       operational current at DC-13     0.15 A       operational current at DC-13     0.16 A       • at 60 V rated value     2 A       • at 60 V rated value     2 A       • at 60 V rated value     0.9 A       • at 60 V rated value     0.9 A       • at 60 V rated value     0.9 A       • at 200 V rated value     0.1 A       contact reliability of auxiliary contacts     1 lauly switching per 100 million (17 V, 1 mA)       ULCSA ratings     1       full-load current (FLA) for 3-phase AC motor     -       • at 600 V rated value     14 A       • at 600 V rated value     14 A       • at 600 V rated value     14 A       • at 600 V rated value     1 hp       - at 200208 V rated value     1 hp       - at 200208	operational current at AC-12 maximum	10 A
• at 400 V rated value         3 A           • at 600 V rated value         2 A           • at 600 V rated value         1 A           operational current at DC-12         •           • at 24 V rated value         0 A           • at 40 V rated value         6 A           • at 40 V rated value         6 A           • at 40 V rated value         6 A           • at 60 V rated value         2 A           • at 20 V rated value         3 A           • at 20 V rated value         2 A           • at 200 V rated value         1 A           • at 200 V rated value         2 A           • at 200 V rated value         0 A           • at 200 V rated value         0 A           • at 24 V rated value         0 A           • at 24 V rated value         0 A           • at 24 V rated value         0 A           • at 40 V rated value         0 A           • at 40 V rated value         0 A           • at 20 V rated value         0 A           • at 20 V rated value         0 A           • at 20 V rated value         0 A           • at 200 V rated value         1 A           • at 200 V rated value         1 A           • at 200 V rated value	operational current at AC-15	
• at 500 V rated value2 A• at 680 V rated value1 Aoperational current at DC-12• at 24 V rated value10 A• at 48 V rated value6 A• at 48 V rated value6 A• at 10 V rated value3 A• at 10 V rated value2 A• at 25 V rated value1 A• at 20 V rated value1 A• at 20 V rated value0.15 Aoperational current at DC-13• at 24 V rated value10 A• at 26 V rated value2 A• at 26 V rated value10 A• at 26 V rated value2 A• at 26 V rated value0.15 Aoperational current at DC-13• at 26 V rated value2 A• at 60 V rated value2 A• at 60 V rated value0.9 A• at 10 V rated value0.9 A• at 112 V rated value0.3 A• at 200 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/SA ratings11 Afull-load current (FLA) for 3-phase AC motor11 A• at 600 V rated value14 A• at 101 V2 V rated value14 A• at 200 V rated value14 A• at 600 V rated value14	• at 230 V rated value	10 A
• at 660 V rated value     1 A       operational current at DC-12     10 A       • at 24 V rated value     6 A       • at 60 V rated value     6 A       • at 10 V rated value     6 A       • at 10 V rated value     2 A       • at 25 V rated value     1 A       • at 25 V rated value     1 A       • at 25 V rated value     0.15 A       • at 60 V rated value     0.15 A       • at 60 V rated value     10 A       • at 60 V rated value     0.15 A       • operational current at DC-13     •       • at 24 V rated value     10 A       • at 24 V rated value     2 A       • at 24 V rated value     2 A       • at 25 V rated value     2 A       • at 10 V rated value     2 A       • at 25 V rated value     0.9 A       • at 26 V rated value     0.1 A       contact reliability of auxiliary contacts     1 faulty switching per 100 million (17 V, 1 mA)       UL/CSA ratings     11 A       • at 600 V rated value     11 A       • at 400 V rated value     1 A       • at 400 V rated value     1 A	• at 400 V rated value	3 A
operational current at DC-12       10 A         • at 24 V rated value       10 A         • at 48 V rated value       6 A         • at 10 V rated value       6 A         • at 10 V rated value       8 A         • at 220 V rated value       1 A         • at 220 V rated value       1 A         • at 220 V rated value       0.15 A         operational current at DC-13       •         • at 24 V rated value       10 A         • at 24 V rated value       10 A         • at 24 V rated value       0.5 A         operational current at DC-13       •         • at 60 V rated value       2 A         • at 60 V rated value       10 A         • at 60 V rated value       0.9 A         • at 22 V rated value       0.9 A         • at 220 V rated value       0.1 A         • at 220 V rated value       0.1 A         • at 60 V rated value       1 faulty switching per 100 million (17 V, 1 mA)         ULCSA ratings       11 A         • at 600 V rated value       14 A         • at 600 V rated value       14 A         • at 600 V rated value       1 A         • at 600 V rated value       1 A         • at 600 V rated value       2 hp	• at 500 V rated value	2 A
	• at 690 V rated value	1 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       2 A         • at 220 V rated value       1 A         • at 600 V rated value       0.15 A         operational current at DC-13       •         • at 24 V rated value       10 A         • at 48 V rated value       2 A         • at 60 V rated value       2 A         • at 60 V rated value       2 A         • at 60 V rated value       2 A         • at 10 V rated value       1 A         • at 10 V rated value       2 A         • at 110 V rated value       0.9 A         • at 200 V rated value       0.3 A         • at 600 V rated value       0.1 A         contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UL/CSA ratings	operational current at DC-12	
<ul> <li>eit 60 V rated value</li> <li>6 A</li> <li>eit 110 V rated value</li> <li>3 A</li> <li>eit 125 V rated value</li> <li>2 A</li> <li>eit 220 V rated value</li> <li>1 A</li> <li>eit 600 V rated value</li> <li>0.15 A</li> <li>operational current at DC-13</li> <li>eit 24 V rated value</li> <li>1 0 A</li> <li>eit 40 V rated value</li> <li>2 A</li> <li>eit 60 V rated value</li> <li>2 A</li> <li>eit 60 V rated value</li> <li>2 A</li> <li>eit 60 V rated value</li> <li>2 A</li> <li>eit 72 V rated value</li> <li>2 A</li> <li>eit 110 V rated value</li> <li>2 A</li> <li>eit 10 V rated value</li> <li>3 A</li> <li>eit 22 V rated value</li> <li>0.9 A</li> <li>eit 22 V rated value</li> <li>0.3 A</li> <li>eit 60 V rated value</li> <li>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>U/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor</li> <li>eit 600 V rated value</li> <li>11 A</li> <li>yielded mechanical performance (Ip)</li> <li>for single-phase AC motor</li> <li>-at 200/208 V rated value</li> <li>1 hp</li> <li>-at 200/208 V rated value</li> <li>1 hp</li> <li>-at 200/208 V rated value</li> <li>10 hp</li> <li>-at 200/208 V rated value</li> <li>10 hp</li> <li>-at 200/208 V rated value</li> <li>10 hp</li> <li>-at 480480 V rat</li></ul>	• at 24 V rated value	10 A
<ul> <li>et 110 V rated value</li> <li>3 A</li> <li>et 125 V rated value</li> <li>2 A</li> <li>et 220 V rated value</li> <li>1 A</li> <li>et 200 V rated value</li> <li>0.15 A</li> <li>operational current at DC-13</li> <li>et 24 V rated value</li> <li>10 A</li> <li>et 48 V rated value</li> <li>2 A</li> <li>et 60 V rated value</li> <li>2 A</li> <li>et 10 V rated value</li> <li>2 A</li> <li>et 10 V rated value</li> <li>2 A</li> <li>et 60 V rated value</li> <li>2 A</li> <li>et 10 V rated value</li> <li>0.9 A</li> <li>et 125 V rated value</li> <li>0.3 A</li> <li>et 60 V rated value</li> <li>0.14</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor         <ul> <li>et 800 V rated value</li> <li>11 A</li> <li>yielded mechanical performance (hp)</li> <li>of raingle-phase AC motor</li> <li>at 200/208 V rated value</li> <li>1 hp</li> <li>at 200/208 V rated value</li> <li>2 hp</li> <li>of raingle-phase AC motor</li> <li>at 200/208 V rated value</li> <li>1 hp</li> <li>at 200/208 V rated value</li> <li>1 hp</li> <li>at 200/208 V rated value</li> <li>1 hp</li> <li>at 300 V rated value</li> <li>1 hp</li> <li>at 460480 V rated value</li> <li>10 hp</li> <li>at 460480 V rated value</li></ul></li></ul>	• at 48 V rated value	6 A
• at 125 V rated value       2 A         • at 220 V rated value       1 A         • at 600 V rated value       0.15 A         operational current at DC-13       10 A         • at 24 V rated value       10 A         • at 24 V rated value       2 A         • at 60 V rated value       2 A         • at 10 V rated value       0.9 A         • at 125 V rated value       0.9 A         • at 120 V rated value       0.3 A         • at 20 V rated value       0.14 A         • contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         ULCSA ratings       14 A         • at 600 V rated value       11 A         • yielded mechanical performance [hp]       14 A         • at 600 V rated value       11 A         yielded mechanical performance [hp]       1 hp         • at 200 v rated value       1 hp         - at 110/120 V rated value       1 hp         - at 200/208 V rated value       1 hp         - at 200/208 V rated value       5 hp         - at 200/208 V rated value       5 hp         - at 200/208 V rated value       1 hp         - at 200/208 V rated value       1 hp         - at 200/208 V rated value       1 hp	• at 60 V rated value	6 A
• at 220 V rated value       1 A         • at 600 V rated value       0.15 A         operational current at DC-13       •         • at 24 V rated value       10 A         • at 48 V rated value       2 A         • at 60 V rated value       2 A         • at 10 V rated value       0.9 A         • at 125 V rated value       0.9 A         • at 220 V rated value       0.3 A         • at 200 V rated value       0.1 A         contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UCSA ratios       1 faulty switching per 100 million (17 V, 1 mA)         ULCSA ratios       1 faulty switching per 100 million (17 V, 1 mA)         ULCSA ratios       1 faulty switching per 100 million (17 V, 1 mA)         ULCSA ratios       1 faulty switching per 100 million (17 V, 1 mA)         ULCSA ratios       1 faulty switching per 100 million (17 V, 1 mA)         ULCSA ratios       1 faulty switching per 100 million (17 V, 1 mA)         ULCSA ratios       1 faulty switching per 100 million (17 V, 1 mA)         ULCSA ratios       1 faulty switching per 100 million (17 V, 1 mA)         ULCSA ratios       1 faulty switching per 100 million (17 V, 1 mA)         ULCSA ratios       1 faulty switching per 100 million (17 V, 1 mA)         ULCSA		
• at 600 V rated value     0.15 A       operational current at DC-13     10 A       • at 24 V rated value     10 A       • at 48 V rated value     2 A       • at 60 V rated value     2 A       • at 10 V rated value     2 A       • at 110 V rated value     0.9 A       • at 220 V rated value     0.3 A       • at 200 V rated value     0.1 A       contact reliability of auxiliary contacts     1 faulty switching per 100 million (17 V, 1 mA)       UL/CSA ratings     14 A       full-load current (FLA) for 3-phase AC motor     14 A       • at 4600 V rated value     14 A       • at 4600 V rated value     14 A       • at 480 V rated value     1 hp       - at 230 V rated value     1 hp       - at 220/208 V rated value     3 hp       - at 220/208 V rated value     3 hp       - at 220/208 V rated value     10 hp		
operational current at DC-13       ID A         • at 24 V rated value       10 A         • at 48 V rated value       2 A         • at 10 V rated value       2 A         • at 10 V rated value       1 A         • at 110 V rated value       0.9 A         • at 220 V rated value       0.3 A         • at 220 V rated value       0.1 A         contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UL/CSA ratings       full-load current (FLA) for 3-phase AC motor         • at 480 V rated value       14 A         • at 600 V rated value       11 A         yielded mechanical performance [hp]       • for single-phase AC motor         • at 100/120 V rated value       1 hp         - at 200/208 V rated value       2 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       3 hp         - at 200/208 V rated value       5 hp         - at 200/208 V rated value       10 hp         - at 460/480 V rated value       10 hp         - at 460/480 V rated value       10 hp         - at 460/480 V rated value       10 hp         - at 575/600 V rated value       10 hp         contact rating of auxiliary contacts according to UL       A600 /		
• at 24 V rated value       10 A         • at 48 V rated value       2 A         • at 60 V rated value       2 A         • at 110 V rated value       1 A         • at 125 V rated value       0.9 A         • at 220 V rated value       0.3 A         • at 20 V rated value       0.1 A         contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UL/CSA ratings       14 A         full-load current (FLA) for 3-phase AC motor       14 A         • at 600 V rated value       1 h         yleided mechanical performance [hp]       -         • for single-phase AC motor       -         - at 110/120 V rated value       1 hp         - at 200/208 V rated value       2 hp         • for 3-phase AC motor       -         - at 220/203 V rated value       3 hp         - at 220/203 V rated value       10 hp         - at 220/203 V rated value       10 hp         - at 30 V rated value       10 hp         - at 460/480 V rated value       10 hp		0.15 A
• at 48 V rated value       2 A         • at 60 V rated value       2 A         • at 110 V rated value       1 A         • at 125 V rated value       0.9 A         • at 220 V rated value       0.3 A         • at 600 V rated value       0.1 A         contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         IUL/CSA ratings       1         full-load current (FLA) for 3-phase AC motor       14 A         • at 600 V rated value       14 A         • at 600 V rated value       11 A         yielded mechanical performance [hp]       •         • for single-phase AC motor       -         - at 110/120 V rated value       1 hp         - at 200/208 V rated value       2 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       3 hp         - at 200/208 V rated value       3 hp         - at 200/208 V rated value       5 hp         - at 460/480 V rated value       10 hp         - at 575/600 V rated value       10 hp         contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       -         design of the fuse link       or short-circuit protection of the main circuit	•	
• at 60 V rated value2 A• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)ULCSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value14 A• at 600 V rated value14 A• at 300 V rated value1 hp- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp- at 200/208 V rated value5 hp- at 200/208 V rated value10 hp- at 60/480 V rated value10 hp- at with ype of coordination 1 requiredgG: 50A (690V, 100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)		
• at 110 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsfull-load current (FLA) for 3-phase AC motor14 A• at 480 V rated value14 A• at 600 V rated value11 Ayielded mechanical performance [hp]1 hp• for single-phase AC motor1 hp- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value1 hp- at 200/208 V rated value3 hp- at 200/208 V rated value5 hp- at 60/480 V rated value10 hp- at 60/480 V rated value10 hp- at 60/480 V rated value6 for 3-phase AC motor- at 200/208 V rated value1 hp- at 200/208 V rated value3 hp- at 200/208 V rated value10 hp- at 60/480 V rated value10 hp- at 60/480 V rated value10 hp- at 60/480 V rated value6600 / Q600Short-circuit protection of the main circuit66: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)		
• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 Acontact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UUCSA ratingsfull-load current (FLA) for 3-phase AC motor• at 480 V rated value14 A• at 600 V rated value11 Ayielded mechanical performance [hp]1 hp• for single-phase AC motor1 hp- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor3 hp- at 200/208 V rated value3 hp- at 200/208 V rated value10 hp- at 460/480 V rated value10 hp- at 460/480 V rated value10 hp- at 600 V rated value10 hp- at 600/2060 V rated valu		
• at 220 V rated value     0.3 A       • at 600 V rated value     0.1 A       contact reliability of auxiliary contacts     1 faulty switching per 100 million (17 V, 1 mA)       UL/CSA ratings     14 A       • at 480 V rated value     14 A       • at 480 V rated value     11 A       yielded mechanical performance [hp]     11 A       • at 110/120 V rated value     1 hp       - at 200/208 V rated value     2 hp       • for 3-phase AC motor     -       - at 200/208 V rated value     3 hp       - at 200/208 V rated value     5 hp       - at 460/480 V rated value     10 hp       - at 575/600 V rated value     10 hp       - at 575/600 V rated value     10 hp       - at 600/208 V rated value     10 hp       - at 575/600 V rated value     10 hp       - at 575/600 V rated value     10 hp       - at 575/600 V rated value     10 hp       - at 6600 / Q600     Short-circuit protection       design of the fuse link     600 / Q600       • for short-circuit protection of the main circuit     GG: 50A (690V, 100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)		
• at 800 V rated value       0.1 A         contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UL/CSA ratings       1         full-load current (FLA) for 3-phase AC motor       14 A         • at 480 V rated value       14 A         • at 600 V rated value       11 A         yielded mechanical performance [hp]       11 A         • for single-phase AC motor       1 hp         - at 110/120 V rated value       1 hp         - at 230 V rated value       2 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       3 hp         - at 200/208 V rated value       5 hp         - at 200/208 V rated value       10 hp         - at 460/480 V rated value       10 hp         - at 575/600 V rated value       10 hp         contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       design of the fuse link         • for short-circuit protection of the main circuit       gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)		
contact reliability of auxiliary contacts       1 faulty switching per 100 million (17 V, 1 mA)         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value       14 A         • at 600 V rated value       11 A         yielded mechanical performance [hp]       •         • for single-phase AC motor       -         - at 110/120 V rated value       1 hp         - at 230 V rated value       2 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       3 hp         - at 20/230 V rated value       5 hp         - at 220/230 V rated value       10 hp         - at 260/280 V rated value       10 hp         - at 260/280 V rated value       10 hp         - at 575/600 V rated value       10 hp         contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       design of the fuse link         • for short-circuit protection of the main circuit       gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)		
UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         • at 600 V rated value         11 A         yleided mechanical performance [hp]         • for single-phase AC motor         - at 110/120 V rated value         - at 230 V rated value         - at 200/208 V rated value         2 hp         • for 3-phase AC motor         - at 200/208 V rated value         3 hp         - at 200/208 V rated value         5 hp         - at 460/480 V rated value         10 hp         - at 575/600 V rated value         10 hp         contact rating of auxiliary contacts according to UL         A600 / Q600         Short-circuit protection         design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)		
full-load current (FLA) for 3-phase AC motor       14 A         • at 480 V rated value       11 A         yielded mechanical performance [hp]       11 A         • for single-phase AC motor       1 hp         - at 110/120 V rated value       1 hp         - at 230 V rated value       2 hp         • for 3-phase AC motor       3 hp         - at 200/208 V rated value       5 hp         - at 200/208 V rated value       10 hp         - at 460/480 V rated value       10 hp         - at 575/600 V rated value       10 hp         contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       design of the fuse link         • for short-circuit protection of the main circuit       - with type of coordination 1 required         gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)		1 faulty switching per 100 million (17 V, 1 mA)
• at 480 V rated value       14 A         • at 600 V rated value       11 A         yielded mechanical performance [hp]       11 A         • for single-phase AC motor       - at 110/120 V rated value         - at 230 V rated value       1 hp         - at 230 V rated value       2 hp         • for 3-phase AC motor       - at 200/208 V rated value         - at 200/208 V rated value       3 hp         - at 220/230 V rated value       5 hp         - at 460/480 V rated value       10 hp         - at 575/600 V rated value       10 hp         - at 575/600 V rated value       10 hp         contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       - for short-circuit protection of the main circuit         - with type of coordination 1 required       gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)		
• at 600 V rated value       11 A         yielded mechanical performance [hp]       -         • for single-phase AC motor       1 hp         - at 110/120 V rated value       1 hp         - at 230 V rated value       2 hp         • for 3-phase AC motor       -         - at 200/208 V rated value       3 hp         - at 220/230 V rated value       5 hp         - at 220/230 V rated value       10 hp         - at 575/600 V rated value       10 hp         contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       -         design of the fuse link       -         • for short-circuit protection of the main circuit       -         - with type of coordination 1 required       gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)		14.0
yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>thp</li> <li>at 230 V rated value</li> <li>thp</li> </ul> - at 230 V rated value         2 hp           • for 3-phase AC motor         3 hp           - at 200/208 V rated value         3 hp           - at 220/230 V rated value         5 hp           - at 460/480 V rated value         10 hp           - at 575/600 V rated value         10 hp           contact rating of auxiliary contacts according to UL         A600 / Q600           Short-circuit protection         design of the fuse link           • for short-circuit protection of the main circuit         gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)		
<ul> <li>for single-phase AC motor         <ul> <li>at 110/120 V rated value</li> <li>thp</li> <li>at 230 V rated value</li> <li>thp</li> <li>at 230 V rated value</li> <li>thp</li> </ul> </li> <li>for 3-phase AC motor         <ul> <li>at 200/208 V rated value</li> <li>thp</li> <li>thp</li> <li>thp</li> <li>thp</li> </ul> </li> <li>at 200/208 V rated value</li> <li>thp</li> <lithp< li=""> <li>thp</li> <li>thp</li> <lithp< li=""></lithp<></lithp<></ul>		
- at 110/120 V rated value1 hp- at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hp- at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 requiredgG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)		
at 230 V rated value2 hp• for 3-phase AC motor at 200/208 V rated value3 hp at 220/230 V rated value5 hp at 460/480 V rated value10 hp at 575/600 V rated value10 hp at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 requiredgG: 50A (690V, 100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)		1 hp
• for 3-phase AC motorImage: Constant of the main circuit- at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hp- at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the fuse link• for short-circuit protection of the main circuit- with type of coordination 1 requiredgG: 50A (690V, 100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)		·
- at 200/208 V rated value3 hp- at 220/230 V rated value5 hp- at 460/480 V rated value10 hp- at 575/600 V rated value10 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protectiondesign of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 requiredgG: 50A (690V, 100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)		
	•	3 hp
contact rating of auxiliary contacts according to UL       A600 / Q600         Short-circuit protection       design of the fuse link         • for short-circuit protection of the main circuit		
Short-circuit protection         design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)		
design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)		
for short-circuit protection of the main circuit		
- with type of coordination 1 required gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)	•	
	-	gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)
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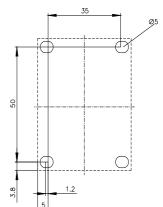
gG: 10 A (500 V, 1 kA)

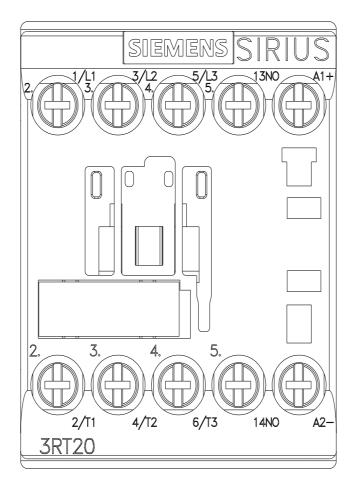
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method side-by-side mounting	Yes
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	58 mm
width	45 mm
depth	73 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for main contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
connectable conductor cross-section for auxiliary contacts	
<ul> <li>solid or stranded</li> </ul>	0.5 4 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross section	
for main contacts	20 12
<ul> <li>for auxiliary contacts</li> </ul>	20 12
Safety related data	
product function	
	Yes; with 3RH29
	,
<ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
positively driven operation according to IEC 60947-5-1	No
<ul> <li>positively driven operation according to IEC 60947-5-1</li> <li>suitable for safety function</li> </ul>	Yes
• positively driven operation according to IEC 60947-5-1	

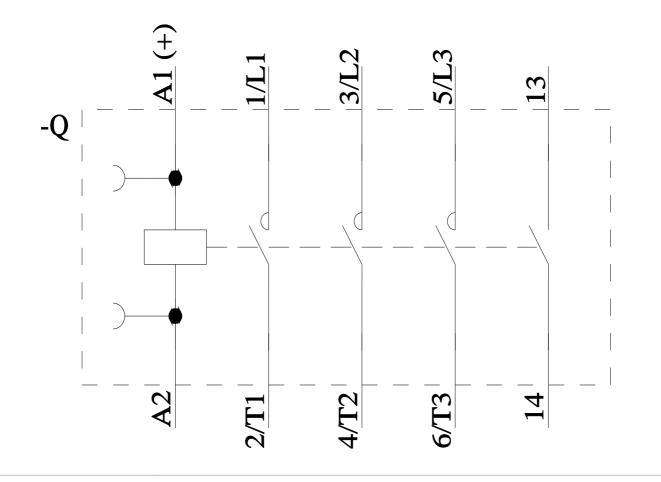
proportion of dangerous failures         40 %           • with ky denarad rate according to SN 31920         73 %           • With ky denarad rate according to SN 31920         73 %           • Value with ky denarad rate according to SN 31920         70 %           • SN 31920         100 FT						
<ul> <li>a. whi high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate according to SN 31920</li> <li>B. So value with high demand rate accordin</li></ul>						
B19 value with high demand rate according to SN 31920     1 000 000       SN 31930     1 000 FTT       SN 31930     SN 31930       SN 31930		0				
failure rate [FT] with low demand rate according to SN     100 FT       revice type according to ISO 13849-2 necessary     Yes       revice type according to IEO 13849-2 necessary     Yes       revice type according to IEO 13849-2 necessary     Yes       revice type according to IEO 61509-2     Type A       revice type according to IEO 61509-2     IP20       touch protection on the toric according to IEC 60529     Ingensate, for vertical contact from the front       Approvable Controller to IEO net according to IEC 60529     Ingensate, for vertical contact from the front       Approvable Controller to IEO net according to IEC 60529     Ingensate, for vertical contact from the front       Approvable Controller to IEO net according to IEC 60529     Ingensate, for vertical contact from the front       Approvable Controller to IEO net according to IEC 60529     Ingensate, for vertical contact from the front       Approvable Controller to IEO net according to IEC 60529     Ingensate, for vertical contact from the front       Approvable Controller to IEO net according to IEC 60529     Ingensate, for vertical contact from the front       formation     Impersate, for vertical contact from the front     Impersate, for vertical contact from the front       formation     Impersate, for verti	<ul> <li>with high demand</li> </ul>	I rate according to SN 3	1920 73	%		
31320	B10 value with high de	emand rate according t	o SN 31920 1 0	00 000		
device type according to ISO 13849-1     3       overdimensioning according to ISO 13849-2 nacessary     Yes       EC 61000     safety device type according to IEC 6108-2     Type A       Bedictatal Safety     mage-safe, for vertical contact from the front     mage-safe, for vertical contact from the front       Protection class IP on the front according to IEC 60529     inge-safe, for vertical contact from the front     KC       Approvals     Centromation     Marine / Shipping       Central Product Approval     EMV     Test Certificates     Marine / Shipping       Central Product Approval     EMV     Test Certificates     Marine / Shipping       Central Product Approval     EMV     Test Certificates     Marine / Shipping       Central Product Approval     EMV     Test Certificates     Marine / Shipping       Central Product Approval     EMV     Test Certificates     Marine / Shipping       Marine / Shipping     EMV     Test Certificates     Marine / Shipping       other     Railway     Dargerous goods     Environment       Masellaneous     Confirmation     Special Test Certificates     Environment       Masellaneous     Confirmation     Special Test Certificates     Environment       Marine / Shipping     Environment     Environment     Environment       Masellaneous     Confirmation <td></td> <td>ow demand rate accord</td> <td>ding to SN 100</td> <td>) FIT</td> <td></td> <td></td>		ow demand rate accord	ding to SN 100	) FIT		
overdisensioning according to ISO 13849-2 necessary       Yes         IEC 61688       Safety device type according to IEC 61508-2       Type A         Electrical Safety       P20         rouch protection on the front according to IEC 60929       Ingensate, for vertical contact from the front         Protection classe       Confirmation         Ceneral Product Approval       ELEC 61508-2         ELEC 6100       ELEC 6100-2         Marine / Shipping       ELEC 6100-2         ELEC 6100       Safety et et et al.         Marine / Shipping       ELEC 6100-2         ELEC 6100       Safety et et al.         Marine / Shipping       ELEC 6100-2         Marine / Shipping       ELEC 6100	ISO 13849					
IEC 9103         safety device type according to IEC 61508-2         IECTRICA Statisty         protection class IP on the front according to IEC 60523         Incorrection Control from the front according to IEC 60523         IECE Trans Statisty         General Product Approval         CEC         Energy Product Approval	device type according	to ISO 13849-1	3			
safety device type according to IEC 61508-2 Type A Teachand Safety protection class Poin the front according to IEC 60529 touch protection on the front according to IEC 60529 Touch protection on the front according to IEC 60529 Teachand Safety Teachand S	overdimensioning acc	ording to ISO 13849-2	necessary Yes	3		
Electrical Subary IP20   production class IP on the front according to IEC 69523 IP20   touch protection on the front according to IEC 69523 Ingensale, for vertical contact from the front   Approvals Certificates EGC ISC   Concernal Product Approval EGC ISC   Concernal Product Approval EGV Test Certificates   Concernal Product Approval EGV Test Certificates   Marine / Shipping ISC ISC   Concernal Product Approval EGV Test Certificates   Marine / Shipping ISC ISC   Other Raiway Dangerous goods   Miscelianeous Confirmation   Miscelianeous Confirmation   Special Test Certific Itansport Information   Miscelianeous <td>IEC 61508</td> <td></td> <td></td> <td></td> <td></td> <td></td>	IEC 61508					
protection class IP on the forst according to IEC 6023       P20         touch protection on the forst according to IEC 6023       Imgensate, for vertical contact from the front according to IEC 6023         provesta Configuration on the front according to IEC 6023       Imgensate, for vertical contact from the front according to IEC 6023         provesta Configuration on the front according to IEC 6023       Imgensate, for vertical contact from the front according to IEC 6023         provesta Configuration on the package       Imgensate, for vertical contact from the front according to IEC 6023         provesta Configuration on the package       Imgensate Configuration on the package         proval       Imgensate Configuration on the package         proter       Railway       Imagensate In	safety device type acc	ording to IEC 61508-2	Тур	be A		
Touch protection on the front according to EC 6023       Inger-sale, for vertical contact from the front Approval         General Product Approval       E.E.E.       E.E.E.       Confirmation       E.C.         General Product Approval       E.E.F.       Test Certificates       Marine / Shipping         E.E.E.       E.E.F.       Test Certificates       Marine / Shipping         E.E.E.       E.E.F.       Transfer Certificates       Marine / Shipping         E.E.E.       E.E.F.       Transfer Certificates       Marine / Shipping         E.E.E.       E.E.F.       E.E.F.       Section Test Certificates       Miscelaneous         other       Ralway       Dangerous goods       Environment       Environment         Miscelaneous       Confirmation       Section Test Certificates       Environment       Environmental Content         Miscelaneous       Confirmation       Section Test Certificates       Transport Information       Environmental Content         Environmental Content       Section Test Certificates       Transport Information       Environmental Content         Information on the packagning       Miscelaneous       Confirmation       Section Test Certificates       Environmental Content         Information on the packagning       Miscelaneous       Confirmation State State State State State State Sta	Electrical Safety					
Approvals       Confirmation         General Product Approval       ENV       Test Certificates       Marine / Shipping         General Product Approval       ENV       Test Certificates       Marine / Shipping         General Product Approval       ENV       Test Certificates       Marine / Shipping         General Product Approval       ENV       Test Certificates       Miscellaneous       General Product Approval         Marine / Shipping       Import Test Certificates       Special Test Certificates       Miscellaneous       General Product Approval       Import Test Certificates       Miscellaneous       General Product Approval       Import Test Certificates       Miscellaneous       Import Test Certificates       Importest Certificates <td>protection class IP on</td> <td>the front according to</td> <td>IEC 60529 IP2</td> <td>0</td> <td></td> <td></td>	protection class IP on	the front according to	IEC 60529 IP2	0		
General Product Approval       Effect       Effect       Confirmation         General Product Approval       EMV       Test Certificates       Marine / Shipping         Final       EMV       Test Certificates       Marine / Shipping         Image Testing       Image Test Certificates       Miscellaneous       Image Testing         Marine / Shipping       Image Test Certificates       Miscellaneous       Image Testing         Image Testing       Image Test Certificates       Miscellaneous       Image Testing         Image Testing       Image Testing       Image Testing       Image Testing       Image Testing         Image Testing       Image Testing       Image Testing       Image Testing       Image Testing       Image Testing         Information       Special Test Certificates       Transport Information       Image Testing       Image Testing       Image Testing         Information       Special Test Certificates       Transport Information       Image Testing       Image Testing       Image Testing       Image Testing         Information and Download control (Cetalogy, Brochures)       Testing       Testing       Image Testing       Image Testing         Information and Download control (Cetalogy, Brochures)       Testing       Image Testing       Image Testing       Image Testing <td>touch protection on th</td> <td>e front according to IE</td> <td>C 60529 fing</td> <td>er-safe, for vertical contact</td> <td>from the front</td> <td></td>	touch protection on th	e front according to IE	C 60529 fing	er-safe, for vertical contact	from the front	
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Other       Railway       Dangerous goods       Environment         Miscellaneous       Confirmation       Special Test Certific- ale       Transport Information       Environmental Con- firmations         Further information       Special Test Certific- ale       Transport Information       Environmental Con- firmations         Further information       Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875       Information- and Downloadcenter (Catalogs, Brochures,) https://support.industry.siemens.com/mallen/en/Catalog/product?mlfb=3RT2018-1BB41       Further information         Further information       Second Catalog/product?mlfb=3RT2018-1BB41       Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.automation.siemens.com//cs/WW/en/ps/3RT2018-1BB41       Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/WW/en/ps/3RT2018-1BB41       Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://www.automation.siemens.com/cs/WW/en/ps/3RT2018-1BB41       Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://www.automation.siemens.com/cs/WW/en/ps/3RT2018-1BB41       Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/cs/WW/en/ps/3RT2018-1BB41/Slang=en Characteristic: ripping characteristics, Pt, Let-through current https://support.industry.siemens.com/cs/WW/en/ps/3RT2018-1BB41/Chari         Characteristics (e.g. electrical endurance, switching frequency)       Further characteristics (e.g. electrical endurance, switching frequency	Marine / Shipping					
Miscellaneous       Confirmation       Special Test Certific: ate       Transport Information         Further information       Environmental Con- firmations         Further information       Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875         Information - and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/cl0       Information on the packaging https://www.siemens.com/cl0         Industry Mall (Online ordering system) https://mall.industry.siemens.com/wile/en/Catalog/product?mlfb=3RT2018-1BB41       Cax online generator         Ntps://support.industry.siemens.com/cs/ww/en/ys/3RT2018-1BB41       Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ys/3RT2018-1BB41         Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://www.automation.siemens.com/cs/ww/en/ys/3RT2018-1BB41         Cax online generator         Nutps://support.industry.siemens.com/cs/ww/en/ys/3RT2018-1BB41         Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://www.automation.siemens.com/cs/ww/en/ys/3RT2018-1BB41         Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/s/Wr/CAS/3RT2018-1BB41/char         Characteristic: Tripping characteristics, Pt, Let-through current https://support.industry.siemens.com/s/Wr/en/ys/3RT2018-1BB41/char         Further characteristics (e.g. electrical endurance, switching frequency)	BUREAU VERITAS		Lloyd's Register uts	PRS	RINA	RMRS RMRS
ate       firmations         Further information       Information on the packaging         https://support.industry.siemens.com/cs/ww/en/view/109813875       Information- and Downloadcenter (Catalogs, Brochures,)         https://www.siemens.com/cs/ww/en/view/109813875       Information- and Downloadcenter (Catalogs, Brochures,)         https://www.siemens.com/cs/ww/en/view/109813875       Information- and Downloadcenter (Catalogs, Brochures,)         https://mall.industry.siemens.com/cs/ww/en/view/109813875       Information- and Downloadcenter (Catalogs, Brochures,)         https://mall.industry.siemens.com/infl/en/catalog/product?mlfb=3RT2018-1BB41       Cax online generator         http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-1BB41       Service&Support (Manuals, Certificates, Characteristics, FAQs,)         https://support.industry.siemens.com/cs/wwien/ps/3RT2018-1BB41       Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)         http://www.automation.siemens.com/cs/wwien/ps/3RT2018-1BB41⟨=en       Characteristics, I*t, Let-through current         https://support.industry.siemens.com/cs/wwien/ps/3RT2018-1BB41/char       Further characteristics (e.g. electrical endurance, switching frequency)	other		Railway	Dangerous goods	Environment	
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2018-1BB41 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-1BB41 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1BB41 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-1BB41⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1BB41/char Further characteristics (e.g. electrical endurance, switching frequency)	<u>Miscellaneous</u>	<u>Confirmation</u>		Transport Information	EPD	
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