## SIEMENS

## Data sheet

## 3RT2024-2AL20



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0

and a la		
product brand name	SIRIUS	
product designation	Power contactor	
product type designation	3RT2	
General technical data		
size of contactor	SO	
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>	0.9 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.3 W	
<ul> <li>without load current share typical</li> </ul>	2 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 AC	7,5g / 5 ms, 4,7g / 10 ms	
shock resistance with sine pulse		
• at AC	11,8g / 5 ms, 7,4g / 10 ms	
mechanical service life (operating cycles)		
<ul> <li>of contactor typical</li> </ul>	10 000 000	
<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	0.444 kg	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<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 %	

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	74.2 kg
global warming potential [CO2 eq] during manufacturing	1.9 kg
global warming potential [CO2 eq] during operation	72.4 kg
global warming potential [CO2 eq] after end of life	-0.117 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
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
<ul> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul>	35 A
at AC-3     — at 400 V rated value	12 A
— at 500 V rated value	12 A 12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
at AC-4 at 400 V rated value	12.5 A
• at AC-5a up to 690 V rated value	35.2 A
• at AC-5b up to 400 V rated value	9.9 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	11.4 A
— up to 400 V for current peak value n=20 rated value	11.4 A
— up to 500 V for current peak value n=20 rated value	11.3 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	9 A
● at AC-6a	
<ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>	7.6 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	7.6 A
— up to 500 V for current peak value n=30 rated value	7.6 A
— up to 690 V for current peak value n=30 rated value	7.6 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	5.5 A
at 690 V rated value	5.5 A
operational current	
• at 1 current path at DC-1	25.4
- at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value — at 220 V rated value	4.5 A 1 A
— at 440 V rated value	1 A 0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1	
- at 24 V rated value	35 A
— at 60 V rated value	35 A 35 A
— at 110 V rated value	35 A 35 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A

a with 2 ourrent notion in carico at DC 1	
with 3 current paths in series at DC-1     — at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 100 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	2.9 A 1.4 A
• at 1 current path at DC-3 at DC-5	1.4 A
- at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
with 2 current paths in series at DC-3 at DC-5	0.00 A
- at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
• with 3 current paths in series at DC-3 at DC-5	
- at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles at AC- 4	
• at 400 V rated value	2.6 kW
• at 690 V rated value	4.6 kW
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	4.5 kVA
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.8 kVA
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	9.8 kVA
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	10.7 kVA
operating apparent power at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	3 kVA
<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	5.2 kVA
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	6.5 kVA
• up to 690 V for current peak value n=30 rated value	9 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>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	210 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	170 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	126 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum	105 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	E 000 4/
• at AC	5 000 1/h

operating frequencyui A AG 3 maximum1000 1/hi A AG 3 maximum2001 hcontrol tuppy fortige at AC2001 hi A AG 3 maximum2001 hi A B O 1/r And Value at AC2001 hi A B O 1/r And Value at AC2001 hi A B O 1/r And Value at AC2001 hi A B O 1/r And Value at AC2001 hi A B O 1/r And Value at AC2001 hi A B O 1/r And Value at AC2001 hi A B O 1/r And Value at AC2001 hi A B O 1/r And Value at AC2001 hi A B O 1/r And Value at AC2001 hi A B O 1/r And Value at AC2001 hi A B O 1/r And Value at AC2001 hi A B O 1/r And Value at AC2001 hi A B O 1/r And Value At AC2001 hi A B O 1/r And Value At AC2001 hi A B O 1/r And Value At AC2001 hi A B O 1/r And Value At AC2001 hi A B O 1/r And Value At AC2001 hi A D 1/r And Value A		
•••••••••••••••••••••••••••••••••••	operating frequency	
•••••••••••••••••••••••••••••••••••	<ul> <li>at AC-1 maximum</li> </ul>	1 000 1/h
• # AG-3e maximum1000 th 300 thControl supply collage at ACAC• eriso Discussion of the control supply voltage at AC300 V• eriso Discussion of the voltage at AC300 V• eriso Discussion of the voltage at ACAC• eriso Discussion of the voltage at AC300 V• eriso Discussion of the voltage at ACAS = 1.1• eriso Discussion of the voltage at ACAS = 1.1• eriso Discussion of the voltage at ACAS = 1.1• eriso Discussion of the voltage at ACAS = 1.1• eriso Discussion of the voltage at ACAS = 1.1• eriso Discussion of the voltage at ACAS = 1.1• eriso Discussion of the collAS = 1.1• eriso Discussion of the collAS = 1.1• eriso Discussion of the coll of ACAS = 1.1• eriso Discussion of the coll of ACAS = 1.1• eriso Discussion of the coll of ACAS = 1.1• eriso Discussion of the coll of ACAS = 1.1• eriso Discussion of the coll of ACAS = 1.1• eriso Discussion of the coll of ACAS = 1.1• eriso Discussion of the coll of ACAS = 1.1• eriso Discussion of the subtich operating mechanismBandard AI + AZ• eristor of the subtich operating mechanismAS = 1.1• eriso Discussion of the subtich operating mechanismA• eriso Discussion operating at AC-12	• at AC-2 maximum	1 000 1/h
• al AC-4 maximum300 1hControl stupply voltage at AC	• at AC-3 maximum	1 000 1/h
Control Lincuit/ Control         AC           type of voltage at AC         230 V           • # 160 b1r rated value         230 V           operating range factor control supply voltage rated value of magnet coil at AC         0811           • # 160 b1r         0.81.1           apparet bick-up powor of magnet coil at AC         081.1           • # 160 b1r         0.81.1           apparet bick-up powor of magnet coil at AC         081.1           • # 160 b1r         0.72           • # 170 b1r         0.73           Inductivap powor o	• at AC-3e maximum	1 000 1/h
type of voltage of the control supply voltageACcontrol supply voltage at AC230 V•• it 50 ht rade value230 V•• it 50 ht rade value230 V•• it 50 ht rade value0.81.1•• it 50 ht0.81.1•• it 50 ht0.72•• it 50 ht0.25•• it 50 ht0.10 ht•• it 50 ht0.10 ht•• it 50 ht0.25•• it 50 ht0.10 ht•• it 50 ht0.10 ht•• it 50 ht0.25•• it 50 ht0.10 ht•• it 50 ht0.10 ht•• it 50 ht0.25•• it 50 ht0.10 ht•• it 30 ht0.10 ht•• it 3	• at AC-4 maximum	300 1/h
control supply voltage at AC         20           • # 150 hz rated value         230 V           operating range factor control supply voltage mted value of magnet coil at AC         8.8.1.1           • # 50 hz         0.81.1           apparent bick-up power of magnet coil at AC         68 Å.4.           • # 50 hz         0.81.1           apparent bick-up power of magnet coil at AC         68 Å.4.           • # 50 hz         0.72           • # 60 hz         0.28           colonge data         0.8	Control circuit/ Control	
• # 100 hr mied value200 Voperating range factor control supply voltage rated value of magnet col at AC0851.1• # 100 hrz0.851.1• # 100 hrz0.70• • # 100 hrz0.20• • # 100 hrz0.20• • • # 100 hrz0.20• • • • • • • • • • • • • • • • • • •	type of voltage of the control supply voltage	AC
• at 60 Hz rated value200 Voperating range factor cortor) supply voltage rated value of generating range factor cortor) supply voltage rated value of supply voltage rated value0.81.1• at 60 Hz0.81.1at 60 Hz0.81.1at 610 Hz0.81.1• at 60 Hz0.72• at 60 Hz0.23• at 60 Hz0.24• at 60	control supply voltage at AC	
operating range factor control supply voltage rated value of magnet coil at AC• at 50 Hz0.8 1.1• at 60 Hz0.8 S 1.1• at 60 Hz0.7 NAInductive power factor with closing power of the coil0.7 C 1.1• at 60 Hz0.7 Aapparent pickup power of magnet coil at AC0.7 A• at 60 Hz0.7 Aapparent biding power of magnet coil at AC0.7 A• at 60 Hz0.7 A• at 60 Hz0.7 A• at 60 Hz0.7 A• at 60 Hz0.2 S• at 60 Hz0.2 S• at 60 Hz0.2 S• at 60 Hz0.2 S• at AC8 40 ms• at AC8 40 ms• at AC10 10 ms• at AC10 10 ms• at AC10 10 ms• at AC in a uxiliary contacts instantaneous1• at AC instantaneous1• at 60 V rated value3• at 60 V rated value3• at 60 V rated value10 A• at 60 V rated value3• at 60 V rated value3• at 60 V rated value4• at 60 V rated value3• at 60 V rated value4• at 60 V rated value4• at 60 V rated	• at 50 Hz rated value	230 V
magnet coli at AC0.811• at 60 hz0.81.1apparent pick-up power of magnet coli at AC0.81.1• at 60 hz0.8 \A• at 60 hz0.8 \A• at 60 hz0.7 \A• at 60 hz0.2 \A• at 60 hz0.1 \O msarcing the1.0 \O ms• at 70 hz1.1 \A• at 70 hz1.1 \A <trr>• at 70 hz1.1 \A&lt;</trr>	• at 60 Hz rated value	230 V
• at 50 hz         0 8 1.1           • at 60 hz         05 1.1           • at 60 hz         68 VA           • at 60 hz         68 VA           • at 60 hz         07 VA           inductive power factor with closing power of the coll         0.72           • at 60 hz         0.74           • at 60 hz         0.25           • at 60 hz         0.20           • at 60 hz         0.20           • at AC         840 ms           • at AC         840 ms           • at AC         1010 ms           • at AC         10		
• a160 Hz0.85 1.1apparent bick-up power for will closing power of the coil68 VA• a160 Hz0.72• a160 Hz0.74• a160 Hz0.74• a160 Hz0.74• a160 Hz0.76• a160 Hz0.76• a160 Hz0.76• a160 Hz0.76• a160 Hz0.76• a160 Hz0.76• a160 Hz0.84• a160 Hz0.10 ms• a160 Hz0.10 ms<	magnet coil at AC	
apparent pick-up power of magnet coil at AC         BM           • at 80 Hz         68 VA           • at 80 Hz         67 VA           Inductive power factor with closing power of the coil         0.72           • at 80 Hz         0.74           apparent bolding power of magnet coil at AC         0.74           • at 80 Hz         0.74           apparent bolding power of magnet coil at AC         0.74           • at 80 Hz         0.25           • at 80 Hz         0.25           • at 80 Hz         0.26           • at 80 Hz         0.28           • at 80 Hz         0.4           • at 80 Hz         0.4           • at 80 Hz         0.4           • at 80 Y rate value         10 A           • at 800 Y	• at 50 Hz	
• al 50 Hz         68 VA           • al 60 Hz         67 VA           • al 60 Hz         67 VA           • al 60 Hz         0.72           • al 60 Hz         0.74           • al 60 Hz         0.79 VA           • al 60 Hz         0.59 VA           • al 60 Hz         0.25           • al 60 Hz         0.28           closing delay         0.28           • al 60 Hz         0.28           closing delay         0.10 ms           • al AC         4 16 ms           • at AC         4 16 ms           • at AC         4 16 ms           opening delay         1		0.85 1.1
i at 60 H267 VAinductive power factor with closing power of the coll7at 60 H20.74at 60 H20.74at 60 H27.9 VAat 60 H26.5 VAinductive power factor with the holding power of the coll0.25at 60 H20.25at 60 H20.26closing delay1- at AC840 msopening delay1010 ms- at AC1010 mscontrol for switch operating mechanism1010 mscontrol1number of NC condeals for auxiliary contacts instantaneous control10.Aoperational current at AC-12 maximum10.Aoperational current at AC-12 maximum10.Aoperational current at AC-12 maximum2.Aoperational current at AC-12 maximum10.Aoperational current at AC-12 maximum2.Aot 4300 Vrated value10.Aot 4300 Vrated value3.Aot 4300 Vrated value10.Aot 4300 Vrated value10.Aot 4300 Vrated value3.Aot 4300 Vrated value3.Aot 4300 Vrated value10.Aot 4300 Vrated value3.Aot 4300 Vrated value3.Aot 4300 Vrated value3.Aot 4300 Vrated value3.Aot 43	apparent pick-up power of magnet coil at AC	
inductive power factor with closing power of the coll• at 60 Hz0.72apparent holding power of magnet coll at AC7.9 VA• at 50 Hz6.5 VA• at 60 Hz0.25• at 60 Hz0.25• at 60 Hz0.26• at 60 Hz0.28• at 60 Hz0.28• at AC8 40 ms• at AC10 10 ms• at 3D V rated valuitary contacts instantaneous contact10 10 ms• at 4D V rated value10.A• at	• at 50 Hz	68 VA
• at 50 Hz         0.72           • at 00 Hz         0.74           • at 00 Hz         0.74           • at 50 Hz         7.9 VA           • at 50 Hz         7.9 VA           • at 60 Hz         0.25           • at 60 Hz         0.26           • at 60 Hz         0.28           • at 60 Hz         0.28           • at 60 Hz         0.28           • at AC         #40 ms           • at 320 V rated value         10 A           • at 320 V rated value         AA           • at 360 V rated value	• at 60 Hz	67 VA
• at 60 Hz074apparent holding power of magnet coil at AC7.9 VA• at 60 Hz6.5 VAindictive power factor with the holding power of the coil0.2• at 60 Hz0.26• at 60 Hz0.20• at AC840 ms• at AC0.10 ms• at AC0.10 ms• at AC0.10 ms• at AC0.10 ms• at Max contacts for auxiliary contacts instantaneous contact1• at 230 V rated value0.4• at 230 V rated value0.4• at 320 V rated value0.4• at 600 V rated value0.4•	inductive power factor with closing power of the coil	
apparent holding power of magnet coil at AC	• at 50 Hz	0.72
• at 50 Hz         7.9 VA           • at 60 Hz         56 VA           • at 60 Hz         50 VA           • at 60 Hz         0.25           • at 60 Hz         0.26           • at 60 Hz         0.28           • at 60 Hz         0.28           • at 60 Hz         0.28           • at AC         8 40 ms           opening delay         16 ms           • at AC         4 16 ms           arcing time         10 10 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxlinay circurcu		0.74
• at 00 Hz6.5 VAinductive power factor with the holding power of the coll0.25• at 60 Hz0.28closing delay8 40 ms• at AC8 40 msopening delay4 16 ms• at AC10 10 mscontrol version of the switch operating mechanismStandard A1 - A2Anyling vircuit1rumber of NC contacts for auxiliary contacts instantaneous1operational current at AC-12 maximum10 Aoperational current at AC-12 maximum10 Aoperational current at AC-13 maximum10 Aoperational current at AC-14 maximum10 Aoperational current at AC-15 maxiliary contacts instantaneous3.A• at 300 V rated value3.A• at 300 V rated value10 A• at 420 V rated value3.A• at 600 V rated value3.A• at 600 V rated value6.A• at 60 V rated value6.A•	apparent holding power of magnet coil at AC	
inductive power factor with the holding power of the coil         0.25           • at 60 Hz         0.26           closing delay         0.28           • at AC         840 ms           • at AC         416 ms           arcing time         1010 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         1           rumber of NC contacts for auxiliary contacts instantaneous contact         1           contact         10.A           operational current at AC-12 maximum         10 A           operational current at AC-15         1           • at 300 V rated value         10 A           • at 400 V rated value         10 A           • at 400 V rated value         10 A           • at 200 V rated value         10 A           • at 400 V rated value         10 A           • at 400 V rated value         10 A           • at 400 V rated value         10 A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 60 V rated value         6A           • at 600 V rated value         6A           • at 100 V rated value         1A           • at 200 V rated value<	• at 50 Hz	7.9 VA
• at 50 Hz         0.25           • at 60 Hz         0.28           closing delay         840 ms           • at AC         840 ms           • at AC         416 ms           arcing time         1010 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         1           number of NC contacts for auxiliary contacts instantaneous         1           contact         1           operational current at AC-12 maximum         10 A           operational current at AC-15         -           • at 230 V rated value         10 A           • at 400 V rated value         3A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 600 V rated value         6A           • at 600 V rated value         6A           • at 60 V rated value         6A           • at 60 V rated value         10 A           • at 60 V rated value         6A           • at 60 V rated value         6A           • at 60 V rated value         6A           • at 60 V rated value         10 A           • at 60 V rated value         10 A           • at 60	• at 60 Hz	6.5 VA
• at 60 Hz028closing delay	inductive power factor with the holding power of the coil	
closing delay         at AC           opening delay         840 ms           opening delay	• at 50 Hz	0.25
• et AC840 msopening delay	• at 60 Hz	0.28
opening delay	closing delay	
• at AC         4 16 ms           arcing time         10 10 ms           control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         1           number of NC contacts for auxiliary contacts instantaneous contact         1           operational current at AC-12 maximum         10 A           operational current at AC-15         1           • at 230 V rated value         3 A           • at 230 V rated value         3 A           • at 600 V rated value         1 A           operational current at DC-12         1           • at 240 V rated value         3 A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 600 V rated value         6 A           • at 600 V rated value         10 A           • at 60 V rated value         6 A           • at 60 V rated value         10 A           • at 60 V rated value         6 A           • at 110 V rated value         6 A           • at 125 V rated value         2 A           • at 220 V rated value         2 A           • at 60 V rated value         2 A           • at 60 V rated value         2 A           • at 60 V rated	• at AC	8 40 ms
arcing time10 10 mscontrol version of the switch operating mechanismStandard A1 - A2Auxiliary circuit1number of NC contacts for auxiliary contacts instantaneous contact1number of NO contacts for auxiliary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-15 • at 230 V rated value10 A• at 600 V rated value3 A• at 600 V rated value10 A• at 600 V rated value10 A• at 600 V rated value6 A• at 600 V rated value3 A• at 600 V rated value10 A• at 600 V rated value10 A• at 600 V rated value6 A• at 600 V rated value10 A• at 600 V rated value10 A• at 600 V rated value2 A• at 600 V rated value6 A• at 600 V rated value2 A• at 600 V rated value10 A• at 600 V rated value2 A• at 600 V rated value10 A• at 600 V rated value2 A• at 600 V rated value <td< td=""><td>opening delay</td><td></td></td<>	opening delay	
Control version of the switch operating mechanism         Standard A1 - A2           Auxiliary circuit         I           number of NC contacts for auxiliary contacts instantaneous contact         1           number of NC contacts for auxiliary contacts instantaneous contact         1           operational current at AC-12 maximum         10 A           operational current at AC-15         I           • at 230 V rated value         10 A           operational current at AC-15         I           • at 300 V rated value         2 A           • at 600 V rated value         1 A           operational current at DC-12         I           • at 600 V rated value         1 A           operational current at DC-12         I           • at 600 V rated value         6 A           • at 600 V rated value         6 A           • at 60 V rated value         1 A           • at 60 V rated value         1 A           • at 60 V rated value         1 A           • at 60 V rated value         2 A           • at 100 V rated value         2 A           • at 60 V rated value         10 A           • at 60 V rated value         10 A           • at 60 V rated value         10 A           • at 60 V rated value <th< td=""><td>• at AC</td><td>4 16 ms</td></th<>	• at AC	4 16 ms
Auxiliary circuit       1         number of NC contacts for auxiliary contacts instantaneous contact       1         number of NO contacts for auxiliary contacts instantaneous contact       1         operational current at AC-12 maximum       10 A         operational current at AC-12 maximum       10 A         operational current at AC-12 maximum       10 A         operational current at AC-15       0         • at 230 V rated value       3 A         • at 400 V rated value       2 A         • at 600 V rated value       10 A         • at 600 V rated value       6 A         • at 60 V rated value       6 A         • at 60 V rated value       10 A         • at 24 V rated value       6 A         • at 60 V rated value       10 A         • at 24 V rated value       10 A         • at 20 V rated value       2 A         • at 40 V rated value       2 A	arcing time	10 10 ms
number of NC contacts for auxiliary contacts instantaneous       1         number of NO contacts for auxiliary contacts instantaneous       1         opperational current at AC-12 maximum       10 A         opperational current at AC-15       -         • at 230 V rated value       10 A         • at 400 V rated value       2 A         • at 690 V rated value       1 A         opperational current at DC-12       -         • at 690 V rated value       1 A         opperational current at DC-12       -         • at 400 V rated value       6 A         • at 400 V rated value       6 A         • at 60 V rated value       10 A         • at 10 V rated value       6 A         • at 10 V rated value       6 A         • at 20 V rated value       10 A         • at 20 V rated value       10 A         • at 40 V rated value       10 A         • at 40 V rated value       10 A         • at 20 V rated value       10 A         • at 40 V rated value       10 A         • at 10 V rated value       10 A         • at 20 V rated value       10 A         • at 20 V rated value       10 A         • at 20 V rated value       10 A         • at 60 V rated v		
contactnumber of NO contacts for auxillary contacts instantaneous contact1operational current at AC-12 maximum10 Aoperational current at AC-15• at 230 V rated value10 A• at 200 V rated value3 A• at 600 V rated value1 A• at 600 V rated value1 A• at 600 V rated value6 A• at 600 V rated value10 A• at 600 V rated value6 A• at 600 V rated value3 A• at 600 V rated value10 A• at 600 V rated value6 A• at 600 V rated value3 A• at 600 V rated value1 A• at 600 V rated value10 A• at 600 V rated value1 A• at 600 V rated value10 A• at 725 V rated value2 A• at 725 V rated value2 A• at 725 V rated value2 A• at 725 V rated value1 A• at 725 V rated value0.9 A• at 725 V rated value0.3 A• at 600 V rated value0.3 A	· · ·	Standard A1 - A2
contact         Image: operational current at AC-12 maximum         Image: operational current at AC-15                • at 230 V rated value             • at 230 V rated value             • at 400 V rated value             • at 600 V rated value	Auxiliary circuit	
operational current at AC-15         IDA           • at 230 V rated value         10 A           • at 400 V rated value         3 A           • at 500 V rated value         2 A           • at 690 V rated value         1 A           operational current at DC-12         -           • at 24 V rated value         6 A           • at 48 V rated value         6 A           • at 60 V rated value         0 A           • at 25 V rated value         0 A           • at 25 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         3 A           • at 10 V rated value<	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact	1
• at 230 V rated value         10 A           • at 400 V rated value         3 A           • at 500 V rated value         2 A           • at 690 V rated value         1 A           • operational current at DC-12         •           • at 24 V rated value         6 A           • at 60 V rated value         6 A           • at 60 V rated value         6 A           • at 60 V rated value         6 A           • at 10 V rated value         6 A           • at 60 V rated value         10 A           • at 60 V rated value         0 A           • at 60 V rated value         0 A           • at 220 V rated value         0 A           • at 220 V rated value         0 A           • at 60 V rated value         2 A           • at 60 V rated value         0.9 A           • at 220 V rated value	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous	1
• 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 24 V rated value       6 A         • at 60 V rated value       6 A         • at 60 V rated value       3 A         • at 10 V rated value       2 A         • at 220 V rated value       1 A         • at 220 V rated value       1 A         • at 60 V rated value       2 A         • at 60 V rated value       10 A         • at 48 V rated value       2 A         • at 60 V rated value       10 A         • at 60 V rated value       10 A         • at 60 V rated value       2 A         • at 10 V rated value       0 A         • at 220 V rated value       0.9 A         • at 125 V rated value       0.3 A         • at 600 V rated value       0.3 A         • at 600 V rated value       0.1 A	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1
• 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 24 V rated value       6 A         • at 60 V rated value       6 A         • at 60 V rated value       3 A         • at 110 V rated value       2 A         • at 220 V rated value       1 A         • at 600 V rated value       2 A         • at 600 V rated value       10 A         • at 220 V rated value       1 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       10 A         • at 24 V rated value       2 A         • at 24 V rated value       2 A         • at 24 V rated value       2 A         • at 60 V rated value       2 A         • at 60 V rated value       2 A         • at 110 V rated value       0.9 A         • at 125 V rated value       0.3 A         • at 220 V rated value       0.3 A         • at 600 V rated value       0.1 A	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	1
• at 690 V rated value         1 A           operational current at DC-12         0           • at 24 V rated value         10 A           • at 24 V rated value         6 A           • at 60 V rated value         6 A           • at 60 V rated value         3 A           • at 110 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         2 A           • at 600 V rated value         2 A           • at 600 V rated value         0.15 A           • at 600 V rated value         2 A           • at 24 V rated value         10 A           • at 24 V rated value         0.9 A           • at 110 V rated value         0.9 A           • at 125 V rated value         0.9 A           • at 125 V rated value         0.3 A           • at 600 V rated value         0.3 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15	1 1 10 A 10 A
operational current at DC-12• at 24 V rated value10 A• at 24 V rated value6 A• at 48 V rated value6 A• at 60 V rated value3 A• at 110 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.1 A• at 220 V rated value10 A• at 600 V rated value2 A• at 600 V rated value10 A• at 24 V rated value2 A• at 24 V rated value2 A• at 60 V rated value10 A• at 24 V rated value2 A• at 25 V rated value2 A• at 26 V rated value2 A• at 27 V rated value2 A• at 28 V rated value2 A• at 29 V rated value2 A• at 20 V rated value3 A• at 20 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value	1 1 10 A 10 A 3 A
• at 24 V rated value       10 A         • at 48 V rated value       6 A         • at 60 V rated value       6 A         • at 110 V rated value       3 A         • at 125 V rated value       2 A         • at 220 V rated value       10 A         • at 600 V rated value       0.15 A         Operational current at DC-13         • at 24 V rated value       2 A         • at 60 V rated value       2 A         • at 24 V rated value       10 A         • at 24 V rated value       2 A         • at 24 V rated value       10 A         • at 25 V rated value       2 A         • at 24 V rated value       0.0 A         • at 25 V rated value       0.9 A         • at 220 V rated value       0.3 A         • at 600 V rated value       0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value	1 1 10 A 10 A 3 A 2 A
• at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 A• operational current at DC-1310 A• at 24 V rated value2 A• at 48 V rated value2 A• at 60 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 60 V rated value0.9 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value	1 1 10 A 10 A 3 A 2 A
• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-1310 A• at 42 V rated value2 A• at 60 V rated value2 A• at 60 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value0.9 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value	1 1 10 A 10 A 3 A 2 A 1 A
• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-1310 A• at 24 V rated value2 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value1 A• at 60 V rated value0.9 A• at 110 V rated value0.9 A• at 220 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A
• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-1310 A• at 24 V rated value2 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value0.9 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value	1 1 10 A 10 A 2 A 1 A 10 A 6 A
• at 220 V rated value1 A• at 600 V rated value0.15 Aoperational current at DC-1310 A• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value1 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 40 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 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 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	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 10 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A
operational current at DC-1310 A• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 10 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 42 V rated value         • at 48 V rated value         • at 60 V rated value         • at 110 V rated value         • at 125 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
• at 24 V rated value10 A• at 48 V rated value2 A• at 60 V rated value2 A• at 10 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value         • at 24 V rated value         • at 24 V rated value         • at 250 V rated value         • at 24 V rated value         • at 20 V rated value         • at 125 V rated value         • at 220 V rated value	1 1 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
• at 48 V rated value2 A• 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 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 44 V rated value         • at 24 V rated value         • at 48 V rated value         • at 60 V rated value         • at 24 V rated value         • at 20 V rated value         • at 20 V rated value         • at 110 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value	1 1 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
• 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 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 60 V rated value         • at 24 V rated value         • at 60 V rated value         • at 24 V rated value         • at 25 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value	1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 0.15 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 A	Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-15	1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10
• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 48 V rated value         • at 420 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10
at 220 V rated value     0.3 A     0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 220 V rated value         • at 48 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
• at 600 V rated value 0.1 A	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 48 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 110 V rated value         • at 125 V rated value         • at 220 V rated value         • at 220 V rated value         • at 48 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10
	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 60 V rated value         • at 60 V rated value         • at 60 V rated value         • at 220 V rated value         • at 10 V rated value         • at 220 V rated value         • at 600 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 400 V rated value         • at 400 V rated value         • at 400 V rated value	1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 690 V rated value         • at 60 V rated value         • at 24 V rated value         • at 60 V rated value         • at 10 V rated value         • at 220 V rated value         • at 24 V rated value         • at 60 V rated value         • at 24 V rated value         • at 60 V rated value         • at 220 V rated value         • at 240 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 600 V rated value         • at 24 V rated value         • at 48 V rated value         • at 48 V rated value	1 1 1 10 A 10 A 10 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
	Auxiliary circuit         number of NC contacts for auxiliary contacts instantaneous contact         number of NO contacts for auxiliary contacts instantaneous contact         operational current at AC-12 maximum         operational current at AC-15         • at 230 V rated value         • at 400 V rated value         • at 690 V rated value         • at 48 V rated value         • at 24 V rated value         • at 10 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 25 V rated value         • at 24 V rated value         • at 24 V rated value         • at 24 V rated value         • at 600 V rated value         • at 24 V rated value         • at 48 V rated value         • at 10 V rated value	1         1         10 A         3A         2A         1A         10 A         6A         6A         6A         3A         2A         1A         10 A         6A         6A         6A         1A         10 A         2A         1A         0.15 A

UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
at 480 V rated value	11 A			
at 600 V rated value	11 A			
yielded mechanical performance [hp]	11.4			
for single-phase AC motor				
- at 110/120 V rated value	1 hn			
— at 230 V rated value	1 hp 2 hp			
for 3-phase AC motor	2.10			
— at 200/208 V rated value	3 hp			
— at 220/230 V rated value	3 hp			
— at 460/480 V rated value	7.5 hp			
— at 575/600 V rated value	10 hp			
contact rating of auxiliary contacts according to UL	A600 / P600			
Short-circuit protection				
design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA			
of the auxiliary circuit up to 230 V				
design of the fuse link				
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)			
- with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)			
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and			
	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	102 mm			
width	45 mm			
depth	97 mm			
required spacing				
with side-by-side mounting     forwarda	10 mm			
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
for grounded parts	10 mm			
— forwards	10 mm			
— upwards				
— at the side	6 mm			
— downwards	10 mm			
<ul> <li>for live parts</li> <li>forwards</li> </ul>	10 mm			
— upwards	10 mm			
— downwards — at the side	10 mm			
Connections/ Terminals	6 mm			
type of electrical connection				
for main current circuit	spring-loaded terminals			
for auxiliary and control circuit	spring-loaded terminals			
at contactor for auxiliary contacts	Spring-toaded terminals			
of magnet coil	Spring-type terminals			
type of connectable conductor cross-sections				
for main contacts				
— solid	2x (1 10 mm²)			
— solid — solid or stranded	2x (1 10 mm <sup>2</sup> )			
<ul> <li>— finely stranded with core end processing</li> </ul>	2x (1 6 mm <sup>2</sup> )			
<ul> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul>	2x (1 6 mm <sup>2</sup> )			
for AWG cables for main contacts	2x (18 8)			
connectable conductor cross-section for main contacts				
solid	1 10 mm²			

stranded		1 10	mm²			
<ul> <li>finely stranded with core end processing</li> </ul>		1 6 r	nm²			
<ul> <li>finely stranded without core end processing</li> </ul>		1 6 mm²				
connectable conductor cross-section for auxiliary	y contacts					
<ul> <li>solid or stranded</li> </ul>		0.5 2	2.5 mm²			
<ul> <li>finely stranded with core end processing</li> </ul>		0.5 ?	1.5 mm²			
<ul> <li>finely stranded without core end processing</li> </ul>		0.5 2	2.5 mm²			
type of connectable conductor cross-sections						
<ul> <li>for auxiliary contacts</li> </ul>						
— solid or stranded		2x (0.5	2.5 mm²)			
— finely stranded with core end processing		2x (0.5	1.5 mm²)			
- finely stranded without core end processi	ng	2x (0.5	2.5 mm²)			
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	Ū	2x (20				
AWG number as coded connectable conductor cr section	oss	,				
for main contacts		18 8				
for auxiliary contacts		20 1				
Safety related data	-	20 1	4			
	-					
product function		Var				
mirror contact according to IEC 60947-4-1		Yes				
<ul> <li>positively driven operation according to IEC 60</li> </ul>	947-5-1	No				
suitable for safety function		Yes				
suitability for use safety-related switching OFF	_	Yes				
service life maximum	_	20 a				
test wear-related service life necessary	_	Yes				
proportion of dangerous failures						
<ul> <li>with low demand rate according to SN 31920</li> </ul>		40 %				
with high demand rate according to SN 31920		73 %				
B10 value with high demand rate according to SN	31920	1 000 000				
failure rate [FIT] with low demand rate according 31920	to SN	100 FI	Т			
ISO 13849						
device type according to ISO 13849-1		3				
overdimensioning according to ISO 13849-2 neces	ssary	Yes				
IEC 61508						
safety device type according to IEC 61508-2		Туре А	١			
Electrical Safety						
protection class IP on the front according to IEC 6	60529	IP20				
touch protection on the front according to IEC 60		finger-s	safe, for vertical contac	ct from the front		
Approvals Certificates		0				
General Product Approval						
<u>Confirmation</u>	~ ~				<u>KC</u>	
( <b>00</b> )	( 6		UK	(ŲL)		
	EG-Konf.		СО	9		
	co-konr.			UL		
General Product Ap- proval EMV T	est Certificates	S		Marine / Shipping		
Pioval						
FRF 🛆 S	pecial Test Cer	<u>tific-</u>	Type Test Certific-	and the second second	States and	
	ate		ates/Test Report	a state of the		
CUL C				and a start of the		
RCM				ABS	BUREAU	
					VERITAS	

Marine / Shipping











Miscellaneous

2/1/2025

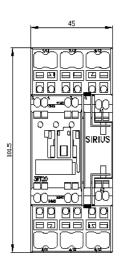
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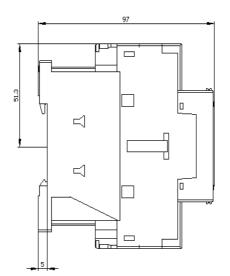
other

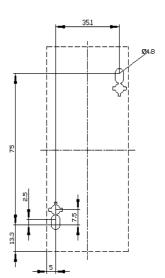
other		Railway	Environment	
Confirmation	Confirmation	<u>Special Test Certific-</u> <u>ate</u>		Environmental Con- firmations

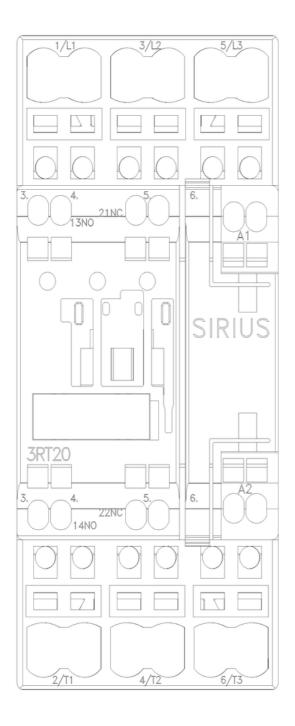
EPD

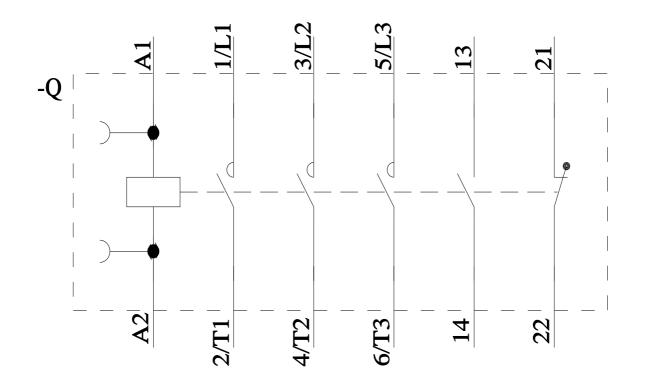
Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2024-2AL20
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-2AL20
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2AL20
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2024-2AL20⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2AL20/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-2AL20&objecttype=14&gridview=view1











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