## SIEMENS

## Data sheet

## 3RT2024-2CL24-3MA0



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, with plugged-in varistor, auxiliary contacts: 2 NO + 2 NC, spring-loaded terminal, size: S0, captive auxiliary switch

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	No		
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		
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		
SVHC substance name	Blei - 7439-92-1		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-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 %		
Main circuit			

number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated value</li> </ul>	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	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
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	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
— up to 690 V for current peak value n=20 rated value	9 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	7.6 A
— up to 400 V for current peak value n=30 rated value	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 mm <sup>2</sup>
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	
<ul> <li>at 1 current path at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	20 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 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	1.4 A

<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>					
— at 24 V rated value	20 A				
— at 60 V rated value	5 A				
— at 220 V rated value	1 A				
— at 440 V rated value	0.09 A				
— at 600 V rated value	0.06 A				
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>					
— 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	3 A				
— at 440 V rated value	0.27 A				
— at 600 V rated value	0.16 A				
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>					
— at 24 V rated value	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-2 at 400 V rated value	5.5 kW				
• 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				
• up to 690 V for current peak value n=20 rated value	10.7 kVA				
operating apparent power at AC-6a					
up to 230 V for current peak value n=30 rated value	3 kVA				
• up to 400 V for current peak value n=30 rated value	5.2 kVA				
• up to 500 V for current peak value n=30 rated value	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				
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	105 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency					
• at AC	5 000 1/h				
operating frequency					
• at AC-1 maximum	1 000 1/h				
• at AC-2 maximum	1 000 1/h				
• at AC-3 maximum	1 000 1/h				
• at AC-3e maximum	1 000 1/h				
• at AC-4 maximum	300 1/h				
and the international frequency of the second					

Control circuit/ Control				
type of voltage of the control supply voltage	AC			
control supply voltage at AC				
at 50 Hz rated value	230 V			
at 60 Hz rated value	230 V 230 V			
operating range factor control supply voltage rated value of				
magnet coil at AC				
● at 50 Hz	0.8 1.1			
● at 60 Hz	0.85 1.1			
design of the surge suppressor	with varistor			
apparent pick-up power of magnet coil at AC				
● at 50 Hz	68 VA			
• at 60 Hz	67 VA			
inductive power factor with closing power of the coil				
• at 50 Hz	0.72			
• at 60 Hz	0.74			
apparent holding power of magnet coil at AC				
• at 50 Hz	7.9 VA			
• at 60 Hz	6.5 VA			
inductive power factor with the holding power of the coil				
• at 50 Hz	0.25			
• at 60 Hz	0.28			
closing delay				
• at AC	8 40 ms			
opening delay				
• at AC	4 16 ms			
arcing time	10 10 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts instantaneous contact	2			
number of NO contacts for auxiliary contacts instantaneous contact	2			
operational current at AC-12 maximum	10 A			
operational current at AC-15				
• at 230 V rated value	6 A			
• at 400 V rated value	3 A			
• at 500 V rated value	2 A			
at 690 V rated value	1 A			
operational current at DC-12				
• at 24 V rated value	10 A			
• at 48 V rated value	6 A			
• at 60 V rated value	6 A			
at 110 V rated value     at 125 V rated value	3 A 2 A			
at 125 V rated value     at 220 V rated value	2 A 1 A			
at 220 V rated value     at 600 V rated value	1 A 0.15 A			
• at 600 V rated value     operational current at DC-13	0.10 A			
• at 24 V rated value	6 A			
at 24 V fated value     at 48 V rated value	2 A			
at 40 V rated value     at 60 V rated value	2 A			
at 100 V rated value	1A			
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)			
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]				
1				

	a far aingle phase AC mater					
<ul> <li></li></ul>	for single-phase AC motor	4 hr				
• 6r 2-phase AC moor         •           • • at 200220 Y rated value         3 hp           • • at 200230 Y rated value         3 hp           • • at 200230 V rated value         10 hp           context rating of auxillary contacts according to UL         A800 / 2600           Short-context rating of auxillary contacts according to UL         A800 / 2600           Short-context rating of auxillary contacts according to UL         A800 / 2600           • • of short-circuit protection of the ratin incut         • • • • • • • • • • • • • • • • • • •						
		2 hp				
<ul> <li></li></ul>	•					
		•				
center training of auxiliary contacts according to UL         AB00 / GB00           Start carcall protection of the main circuit         Gen for for circuit protection of the main circuit           - with type of assignment 2 required         GG: GSA (GB0V, 100AA), BSB8: GSA (415V, B0AA)           - with type of assignment 2 required         GG: GSA (GB0V, 100AA), BSB8: GSA (415V, B0AA)           - with type of assignment 2 required         GG: GSA (GB0V, 100AA), BSB8: GSA (415V, B0AA)           - with type of assignment 2 required         GG: GSA (GB0V, 100AA), BSB8: GSA (415V, B0AA)           - with type of assignment 2 required         GG: GSA (GB0V, 100AA), BSB8: GSA (415V, B0AA)           Installation mounting of the auxiliary works here quired         Sca (GB0V, 100AA), BSB8: GSA (415V, B0AA)           isolet-sysade mounting         Sca (GB0V, 100AA), BSB8: GSA (415V, B0AA)           isolet-sysade mounting         Sca (GB0V, 100AA), BSB8: GSA (415V, B0AA)           isolet-sysade mounting         Sca (GB0V, 100AA), BSB8: GSA (415V, B0AA)           isolet-sysade mounting         Sca (GB0V, 100AA), BSB8: GSA (415V, B0AA)           isolet-sysade mounting         Sca (GB0V, 100AA), BSB8: GSA (415V, B0AA)           isolet-sysade mounting         Sca (GB0V, 100A), BSB8: GSA (415V, B0AA)           isolet-sysade mounting         Sca (GB0V, 100A), BSB8: GSA (415V, BDAA)           isolet-sysade mounting         Sca (GB0V, 100A), BSB8: GSA (415V, BDAA)						
Short-circult production       design of the fuse link       gG: 653, (690V, 100kA), akt. 32A (690V, 100kA), BSB8: 63A (415V, 80KA)						
design of the fues link <ul> <li>or short-circuit protection for main circuit</li> <li>gG: 63A (690V, 100KA), aM: 32A (690V, 100KA), BS8E: 63A (415V, 80KA)</li> <li>of short-circuit protection of the autility switch required</li> <li>of short-circuit protection of the autility switch required</li> <li>of short-circuit protection of the autility switch required</li> <li>add-by-side mounting dimensions</li> <li>side-by-side mounting dimensions</li> <li>side-by-side mounting surface; can be tilted forward and backward by x- 22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting surface; can be tilted forward and backward by x-22.5° on vertical mounting xurface; can backar</li></ul>		A600 / Q600				
• for short-dreat production of the main creati:						
- with type of condination 1 required - with type of assignment 2 required is of short focular protection of the auxilary switch required gis: 25A (690V, 100kA), 4M: 22A (690V, 100kA), 4M: 28B : 25A (415V, 200KA) gis: 25A (690V, 100kA), 4M: 20A (69	-					
- with spe of assignment 2 require for short-circl protection of the auxillary switch require set 25 ( 260 ( 200 / 100 kA), abt. 20A ( 690 / 100 k	-					
• of stort-crout protection of the auxiliary switch required Installation' mounting dimensions         9G: 10 A (500 V, 1 kA)           Installation' mounting surface; can be filted forward and backward by v- 22.5' on vertical mounting surface; can be filted forward and backward by v- 22.5' on vertical mounting surface; can be filted forward and backward by v- 22.5' on vertical mounting surface; can be filted forward and backward by v- 22.5' on vertical mounting surface; can be filted forward and backward by v- 22.5' on vertical mounting surface; can be filted forward and backward by v- 22.5' on vertical mounting surface; can be filted forward and backward by v- 22.5' on vertical mounting surface; can be filted forward and backward by v- 22.5' on vertical mounting surface; can be filted forward and depth           vertified forward and - upwards         10 mm           - forwards         10 mm           - downwards         0 mm           - downwards         10 mm           - downwards         20 mm           or and neurret iccult         spring-loaded						
Installation/ mounting/ dimensions         4-180° rotation possible on vertical mounting surface, can be tilted forward and backward by v 225° on vertical mounting surface.           fastening method         screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715           iside byside mounting         Yes           height         102 mm           width         45 mm           depth         144 mm           required spacing         144 mm           - unwards         10 mm           - unwards         10 mm           - unwards         10 mm           - downwards         10 mm						
mounting position         +/190 relation possitie on vertical mounting surface backward by /+/2.5° on vertical mounting surface backward by /+/2.5° on vertical mounting surface backward by /+/2.5° on vertical mounting surface           • state ing method         screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715           • state ing method         45 mm           • with idd-by-side mounting         46 mm           required spacing         10 mm           • ubt side-by-side mounting         10 mm           - upwards         10 mm           - dornwards         0 mm           - dornwards         10 mm           - do		gG: 10 A (500 V, 1 KA)				
deckward by 4/-22.5' on vertical mounting surface           fastening method         screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715           height         102 nm           deph         144 mm           deph         144 mm           required spacing						
• side-by-side mountingYesheight102 mmdepth44 mmdepth144 mmrequired spacing10 mm- forwards10 mm- forwards10 mm- downwards0 mm- downwards10 mm- downwards10 mm- other side for grounded parts10 mm- forwards10 mm- downwards10 mm- downwards10 mm- forwards10 mm- downwards10 mm- downwards10 mm- forwards10 mm- downwards10 mm- downwards20 (1 10 mm <sup>2</sup> )- downwards20 (1 10 mm <sup>2</sup> )- for main cortext2x (1 10 mm <sup>2</sup> )- for auxiliary contexts2x (1 10 mm <sup>2</sup> )- for auxiliary contexts- ( 6 mm <sup>2</sup> )- forley stranded with co		backward by +/- 22.5° on vertical mounting surface				
height         102 mm           vidm         45 mm           depth         144 mm           required spacing         144 mm           required spacing         10 mm           - (nvards         10 mm           - upwards         00 mm           - downwards         00 mm           - downwards         00 mm           - downwards         10 mm           - downwards         10 mm           - downwards         10 mm           - upwards         10 mm           - upwards         10 mm           - upwards         10 mm           - upwards         10 mm           - downwards         Spring-loaded terminals           - downwards         Spring-loaded terminals           - downwards         Spring-loaded terminals           - downwards         Spring-loaded terminals           for auxiliary and controt circuit	-					
width         45 mm           depth         144 mm           required spacing         10 mm           - forwards         10 mm           - upwards         10 mm           - downwards         10 mm           - forwards         10 mm           - upwards         10 mm           - upwards         10 mm           - downwards         0 mm           - downwards         9 mm           Connections/ Terminals         Spring-loaded terminals           for main current circuit         spring-loaded terminals           of auxiliary and control circuit         spring-loaded terminals           of auxiliary and control circuit         spring-lype terminals           of rauxiliary and control circuit         spring	· · · · · · · · · · · · · · · · · · ·					
depth         144 mm           required spacing         -           • with side b-yside mounting         -           - forwards         10 mm           - upwards         10 mm           - downwards         0 mm           - downwards         0 mm           - downwards         0 mm           - downwards         10 mm           - downwards         10 mm           - upwards         10 mm           - upwards         10 mm           - downwards         2x (1	÷					
required spacing         • with side-by-side mounting         - (prwards         - upwards         10 mm         - upwards         0 mm         - downwards         0 mm         - downwards         0 mm         - downwards         0 mm         - for grounded parts         - forwards       10 mm         - upwards       10 mm         - at the side       6 mm         - downwards       10 mm         - downwards       10 mm         - upwards       10 mm         - downwards       10 mm         - upwards       10 mm         - upwards       10 mm         - downwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - otro auxiliary and control circuit       spring-loaded terminals         of ra auxiliary and control circuit       spring-loaded terminals         of ra auxiliary and control circuit       spring-loaded terminals         of ranget coil       spring-loaded terminals <td></td> <td></td>						
• with side-by-side mountingI- forwards10 mm- downwards10 mm- downwards00 mm- at the side00 mm- for argounded parts10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- for live parts for wards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwards10 mm- downwardsSpring-loaded terminals- downwardsSpring-loaded terminals- downwardsSpring-loaded terminals- storatedr for auxiliary contactsSpring-loaded terminals- storated with core end processing2x (1 form <sup>2</sup> )- storaded with core end processing2x (1 form <sup>2</sup> )- storaded with core end processing1 form <sup>2</sup> - storaded with core end processing1 form <sup>2</sup> - storaded with core end processing <td>·</td> <td>144 mm</td>	·	144 mm				
	<ul> <li>with side-by-side mounting</li> </ul>					
-0 mm- at the side0 mm- for grounded parts0 mm- forwards10 mm- upwards0 mm- upwards10 mm- at the side6 mm- downwards10 mm- downwards10 mm- for live parts forwards10 mm- downwards10 mm- downwards5 pring-loaded terminals- downwardsspring-loaded terminals- for main current circuitspring-loaded terminals+ for auxiliary and control circuitspring-loaded terminals+ of angrel coliSpring-type terminals- of magnel coliSpring-type terminals- of magnel coliSpring-type terminals- of magnel coliSpring-type terminals- solidSpring-type terminals- solidSpring-type terminals- solidSpring-type terminals- solidSpring-type terminals- solidSpring-type terminals- solidSp	— forwards	10 mm				
at the side0 mm- for grounded parts for wards10 mm- upwards10 mm- at the side6 mm- downwards10 mm- for live parts for wards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards8 mm- downwards10 mm- downwards6 mm- downwards5 mm- downwards2 x (1 6 mm- solid1 10 mm <sup>2</sup> - solid with core end processing1 6 mm <sup>2</sup> - solid with core end processing1 6 mm <sup>2</sup> - solid or stranded with core end processing5 25 mm <sup>2</sup> - solid or stranded with core end processing0 5 25 mm <sup>2</sup> - solid or stranded with core end processing5 25 mm <sup>2</sup> <td< td=""><td>— upwards</td><td>10 mm</td></td<>	— upwards	10 mm				
• for grounded parts0- forwards10 mm- upwards00 mm- upwards00 mm- domwards00 mm- domwards10 mm- for live parts forwards10 mm- upwards10 mm- dowwards00 mm- dowwardsSpring-loaded terminals- for awiliary and control circuitSpring-loaded terminals- of magnet collSpring-loaded terminals- solidSpring-loaded terminals- solid or stranded2x (1 10 mm <sup>2</sup> )- solid or stranded2x (1 10 mm <sup>2</sup> )- solid or with core end processing2x (1 10 mm <sup>2</sup> )- solid1 10 mm <sup>2</sup> - stranded1 10 mm <sup>2</sup> - solid or stranded1 10 mm <sup>2</sup> - finely stranded with core end processing1 6 mm <sup>2</sup> - finely stranded with core end processing05 25 mm <sup>2</sup> - fi	— downwards	10 mm				
- forwards10 mmupwards10 mmupwards6 mmdownwards10 mmforwards10 mmforwards10 mmupwards10 mmupwards10 mmdownwards10 mmdownwards0 mmdownwards6 mmdownwards6 mmdownwards5 mmdownwards5 mmdownwards9 pring-loaded terminalsdownwards5 pring-loaded terminalsdownwards5 pring-loaded terminalsdownwards5 pring-loaded terminalsdownwards5 pring-type terminalsdownwards5 pring-type terminalsdownwards5 pring-type terminalsdownwards2x (1 10 mm²)	— at the side	0 mm				
upwards10 mm at the side6 mm downwards10 mm- for live parts forwards10 mm upwards10 mm upwards10 mm downwards6 mm at the side6 mm at the side6 mm at the side5 ming-loaded terminals at the sidespring-loaded terminals for auxiliary and control circuitspring-loaded terminals for auxiliary and control circuitspring-loaded terminals of magnet collSpring-type terminals of magnet coll2x (1 10 mm²) solid or stranded2x (1 10 mm²) finely stranded with core end processing2x (1 6 mm² solid1 10 mm² solid or stranded1 10 mm² solid or stranded with core end processing1 6 mm² solid or stranded with core end processing1 10 mm² solid or stranded with core end processing1 6 mm² solid or stranded with core end processing1 6 mm² solid or stranded with core end processing1 6 mm² solid or stranded with core end processing1 6 mm² solid or stranded with core end processing5 2.5 mm² solid or stranded with core end processing0.5 2.5 mm² finely stranded with core end processing0.5 2.5 mm² finely stranded with core end processing0.5 2.5 mm² finely stranded without core end processing0.5 2.5 mm² <td><ul> <li>for grounded parts</li> </ul></td> <td></td>	<ul> <li>for grounded parts</li> </ul>					
at the side6 mm downwards10 mm• for live parts10 mm forwards10 mm upwards10 mm upwards10 mm downwards10 mm at the side6 mmConnections/ Terminals5 pring-loaded terminalstype of electrical connectionspring-loaded terminals• for main current circuitspring-loaded terminals• for main current circuitspring-loaded terminals• for main current circuitspring-loaded terminals• of magnet collSpring-type terminals• of magnet coll2x (1 10 mm²)• solid or stranded2x (1 10 mm²)• solid or stranded2x (1 6 mm²)• solid or stranded1 10 mm²• solid1 10 mm²• solid1 10 mm²• solid or stranded1 10 mm²• solid or stranded1 10 mm²• solid or stranded1 6 mm²• finely stranded with core end processing1 6 mm²• finely stranded with core end processing5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²• finely stranded without core end processing0.5 2.5 mm²<	— forwards	10 mm				
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- at the side       6 mm         Connections/ Terminals         type of electrical connection       spring-loaded terminals         • for main current circuit       spring-loaded terminals         • for auxiliary and control circuit       spring-loaded terminals         • at contactor for auxiliary contacts       Spring-type terminals         • of magnet coil       Spring-type terminals         • of connectable conductor cross-sections for main contacts       solid or stranded         • solid or stranded       2x (1 10 mm²)         • finely stranded with core end processing       2x (1 6 mm²)         • finely stranded with core end processing       2x (1 6 mm²)         • solid       1 10 mm²         • solid       1 10 mm²         • solid or stranded       1 10 mm²         • solid or stranded with core end processing       1 6 mm²         • solid       1 10 mm²         • solid       1 6 mm²         • solid or stranded with core end processing       1 6 mm²         • solid or stranded with core end processing       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²	— upwards	10 mm				
Connections/ Terminals         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-type terminals         • of magnet coil       Spring-type terminals         • of magnet coil       Spring-type terminals         • type of connectable conductor cross-sections for main contacts       • solid         • solid or stranded       2x (1 10 mm²)         • finely stranded with core end processing       2x (1 6 mm²)         • finely stranded without core end processing       2x (1 6 mm²)         • solid       1 10 mm²         • solid       1 6 mm²         • solid       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core en	— downwards	10 mm				
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• finely stranded without core end processing       1 6 mm²         connectable conductor cross-section for auxiliary contacts       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded without core end processing       0.5 2.5 mm²         • finely stranded without core end processing       0.5 2.5 mm²	• stranded	1 10 mm²				
• finely stranded without core end processing       1 6 mm²         connectable conductor cross-section for auxiliary contacts       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded without core end processing       0.5 2.5 mm²         • finely stranded without core end processing       0.5 2.5 mm²	<ul> <li>finely stranded with core end processing</li> </ul>	1 6 mm²				
connectable conductor cross-section for auxiliary contacts       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 1.5 mm²         • finely stranded without core end processing       0.5 2.5 mm²         type of connectable conductor cross-sections       0.5 2.5 mm²						
• solid or stranded     0.5 2.5 mm²       • finely stranded with core end processing     0.5 1.5 mm²       • finely stranded without core end processing     0.5 2.5 mm²       type of connectable conductor cross-sections     0.5 2.5 mm²						
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>0.5 1.5 mm<sup>2</sup></li> <li>0.5 2.5 mm<sup>2</sup></li> </ul>	-	0.5 2.5 mm²				
finely stranded without core end processing     0.5 2.5 mm <sup>2</sup>						
type of connectable conductor cross-sections						
	for auxiliary contacts					

— finely strar	anded nded with core end process nded without core end proce for auxiliary contacts	•	2x (0. 2x (0.	5 2.5 mm²) 5 1.5 mm²) 5 2.5 mm²) 0 14)			
	AWG number as coded connectable conductor cross			,			
<ul> <li>for main contact</li> </ul>	S		18	8			
<ul> <li>for auxiliary con</li> </ul>	tacts		20	14			
Safety related data							
product function	·						
<ul> <li>mirror contact a</li> </ul>	ccording to IEC 60947-4-1		Yes				
	operation according to IEC	060947-5-1	No				
-	y-related switching OFF			Yes			
	emand rate according to SN	1 31920	450 0	000			
proportion of danger	d rate according to SN 3192	20	40 %				
	nd rate according to SN 319		73 %				
	ow demand rate according to		100 F				
	interval or service life acco		20 a				
61508		0					
protection class IP or	n the front according to I	EC 60529	IP20				
	the front according to IEC	60529	finger	-safe, for vertical contact	from the front		
Certificates/ approvals							
General Product App	oroval						
(SPE		<u>Confirmatic</u>	<u>on</u>	(h	<u>KC</u>	EAC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Confor	mity	Test Certificates	Marine / Shipping	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	CE EG-Konf.		UK CA	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping							
BUREAU VERITAS		Lloyds Register us		PRS	RINA	RMRS	
other				Railway	Environment		
Confirmation		<u>Confirmatic</u>	<u>nc</u>	Vibration and Shock	Environmental Con- firmations		
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3RT20242CL243MA0 Page 6/8

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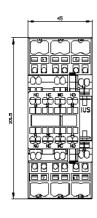
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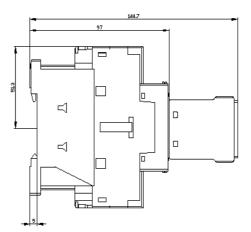
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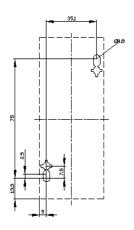
Characteristic: Tripping characteristics, I2t, Let-through current

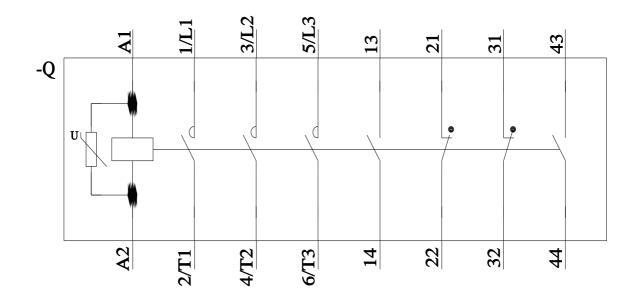
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