SIEMENS

Data sheet 3RT2018-2AV01



power contactor, AC-3e/AC-3, 16 A, 7.5 kW / 400 V, 3-pole, 400 V AC, 50/60 Hz, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	3 W
 at AC in hot operating state per pole 	1 W
 without load current share typical 	5.7 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
• of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
of main circuit rated value	6 kV
of auxiliary circuit rated value	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	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
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	95 %

number of NO contacts for main contacts	3
operating voltage	
• at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	22 A
value	00.4
 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	0.571
— 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 at AC-5 aug to 600 V rated value	11.5 A
at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	13.2 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	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 	6.6 A
 up to 400 V for current peak value n=30 rated value 	6.4 A
up to 500 V for current peak value n=30 rated value	6.4 A
 up to 690 V for current peak value n=30 rated value 	6.4 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm²
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	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 110 v rated value — at 220 V rated value	1.6 A
	0.8 A
— at 440 V rated value	
— at 600 V rated value	0.7 A
with 3 current paths in series at DC-1 at 24 V sets d valve.	20.4
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
 at 1 current path at DC-3 at DC-5 	

### with 2 current paths in series at DC-3 at DC-5 ### at 24 V rated value ### at 60 V rated value ### at 10 V rated value ### at 10 V rated value ### at 10 V rated value ### at 24 V rated value ### at 25 V rated value ### at 40 V rated v	
with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 600 V rated value — 7.5 kW — at 600 V rated value — at 600 V rated value — 7.5 kW — at 600 V rated value — 7.5 kW — at 600 V rated value — 7.5 kW — at 600 V rated value — 7.5 kW — at 600 V rated value — 3.5 kW — at 600 V rated value — 3.5 kW — at 600 V rated value — 3.5 kW — at 600 V rated value — 3.5 kW — at 600 V rated value — 3.5 kW — at 600 V rated value — 3.5 kW — at 600 V rated value — 3.5 kW — at 600 V rated value — at 6	
at 24 V rated value 5 A	
at 80 V rated value	
with 3 current paths in series at DC-3 at DC-5	
with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 1220 V rated value — at 44 DV rated value — at 44 DV rated value — at 44 DV rated value — at 600 V rated value — at 400 V rated value — at 500 V rated value — at 500 V rated value — at 690 V rated value — at 690 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 690 V ro current peak value n=20 rated value — at 690 V for current peak value n=20 rated value — at 690 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated value	
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at 24 V rated value 20 A	
at 60 V rated value 20 A at 110 V rated value 20 A at 220 V rated value 1.5 A at 440 V rated value 0.2 A at 600 V rated value 0.2 A at 600 V rated value 0.2 A at 600 V rated value 7.5 kW at 2.30 V rated value 7.5 kW at 400 V rated value 7.5 kW at 690 V rated value 7.5 kW at 2.30 V rated value 7.5 kW at 690 V rated value 7.5 kW at 500 V rated value 7.5 kW at 500 V rated value 7.5 kW at 500 V rated value 7.5 kW at 690 V rated value 7.5 kW at 6	
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- at 220 V rated value - at 440 V rated value 0.2 A operating power • at AC-2 at 400 V rated value • at 400 V rated value - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 690 V rated value - at 230 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 500 V rated value - at 690 V r	
- at 440 V rated value	
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• up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum 92 A; Use minimum cross-section acc. to AC-1 rated value 92 A; Use minimum cross-section acc. to AC-1 rated value	
short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum 92 A; Use minimum cross-section acc. to AC-1 rated value 92 A; Use minimum cross-section acc. to AC-1 rated value	
short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum 92 A; Use minimum cross-section acc. to AC-1 rated value	
• limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum 92 A; Use minimum cross-section acc. to AC-1 rated value	
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum 	
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 128 A; Use minimum cross-section acc. to AC-1 rated value 92 A; Use minimum cross-section acc. to AC-1 rated value 	
• limited to 30 s switching at zero current maximum 92 A; Use minimum cross-section acc. to AC-1 rated value	
a limited to 60 c quitabling at zero quirant maximum.	
• limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value	
no-load switching frequency	
• at AC 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	
• at AC-3e maximum 750 1/h	
• at AC-4 maximum 250 1/h	
Control circuit/ Control	
type of voltage of the control supply voltage AC	
control supply voltage at AC	
• at 50 Hz rated value 400 V	
• at 60 Hz rated value 400 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
apparent pick-up power of magnet coil at AC	
● at 50 Hz	37 VA
• at 60 Hz	33 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75
	0.70
apparent holding power of magnet coil at AC	E 7.1/A
• at 50 Hz	5.7 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
● at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous	1
contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	- 1/1
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	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 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)
UL/CSA ratings	· ····································
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]	
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 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	

For short-circuit, protection of the main circuit.		
— with type of continuation 1 required 96: S0A (600V, 100AA), abit. 25A (600V, 100AA), BSSB: 50A (415V,80BA) — with type of assignment 2 required 96: S0A (600V, 100AA), abit. 25A (600V, 100AA), BSSB: 25A (415V,80BA) — satistation mounting of internations 4-100° retailor prostable on ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and backward by 1-242 for ventical mounting surface; can be stilled forward and surface; can be stilled fo	design of the fuse link	
- with type of assignment 2 required 6 of 22 5A (800V, 100AA), abit 20A (800V,		-O- FOA (000\/400\A) -M- OFA (000\/400\A) BOOG- FOA (44F\/00\A)
	• • • • • • • • • • • • • • • • • • • •	
March Marc		
Mounting position		gG: 10 A (500 V, 1 KA)
Selectiving method Series mounting or stricted mounting surface Series mounting or stricted mounting to DIN EN 80715 Yes		1/400° retation people are vertical recording a unface, can be tilted forward and
Meight	mounting position	
No man	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
width 45 mm 73 mm 73 mm 75 m	• side-by-side mounting	Yes
Production space Production	height	70 mm
with side by-side mounting	width	45 mm
• with side-by-side mounting	depth	73 mm
forwards	required spacing	
upwards	with side-by-side mounting	
downwards at the side or man contacts forwards forwards forwards forwards forwards forwards forman contacts forwards	— forwards	10 mm
• for grounded parts - forwards	·	10 mm
• for grounded parts		
forwards upwards upwards at the side downwards for live parts forwards for live parts forwards upwards for wards upwards forwards upwards forwards upwards forwards upwards downwards downwards at the side formai current circuit for auxiliary and control circuit for auxiliary and control circuit for auxiliary and control circuit for for auxiliary and control circuit for dependent of auxiliary contacts for main current circuit solid solid or stranded for expectation of auxiliary contacts solid solid or stranded with core end processing finely stranded with core end processing		0 mm
- upwards		
at the side — downwards — 10 mm — 10 m		
- downwards • for live parts - forwards - upwards - upwards - downwards - at the side - for main current circuit • for main current circuit • of magnet coil type of electrical connection • for main current circuit • of auxiliary and control circuit • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for survillary contacts • solid or stranded • finely stranded without core end processing • for for stranded • finely stranded without core end processing • for for stranded • finely stranded without core end processing • for for stranded • for for stranded • for awout caused or auxiliary contacts • for awout cables for auxiliary contacts • for for main contacts • for for main contacts • for main contacts	•	
• for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for for auxiliary and control circuit • spring-loaded terminals • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded • finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for for will contacts • for for will contacts • for for will contacts • for for main contacts • for main contacts • for main contacts • for main contacts • for for main contacts		
forwards		10 IIIII
- upwards	•	10 mm
- downwards — at the side 6 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 • of magnet coil Spring-type terminals • solid Solid or stranded 2x (0,5 4 mm²) • finely stranded with core end processing 2x (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 • finely stranded with core end processing 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 • finely stranded with core end processing 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 • finely stranded with core end processing 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 • finely stranded with core end processing 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 • finely stranded with core end processing 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 • for auxiliary contacts 0.5 2,5 mm² • for own auxiliary contacts 0.5 2,5 mm² • for auxiliary contacts 0.5 2,5 mm²		
Connectable conductor cross-section for main contacts solid stranded sinely stranded with core end processing sinely s	•	
Connections/ Terminals type of electrical connection spring-loaded terminals of or main current circuit spring-loaded terminals of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts Spring-type terminals solid or stranded 2x (0.5 4 mm²) solid or stranded with core end processing 2x (0.5 4 mm²) efinely stranded with core end processing 2x (0.5 2.5 mm²) connectable conductor cross-section for main contacts solid e solid 0.5 4 mm² e solid without core end processing 0.5 2.5 mm² connectable conductor cross-section for auxiliary contacts e solid or stranded with core end processing 0.5 2.5 mm² connectable conductor cross-section for auxiliary contacts e finely stranded with core end processing 0.5 2.5 mm² e finely stranded with core end processing 0.5 2.5 mm² e for auxiliary contacts 2x (0,5 2.5 mm²) e for auxiliary contacts 2x (0,5 2.5 mm²) <t< td=""><td></td><td></td></t<>		
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for Auxiliary contacts • solid or stranded • finely stranded with core end processing • for Auxiliary contacts • for main contacts • for auxiliary contacts		O IIIIII
• for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • solid • solid • stranded • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded — finely stranded without core end processing • for for auxiliary contacts • for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts •		
of rauxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing of inely stranded with core end processing of finely stranded without core end processing of finely stranded without core end processing of finely stranded without core end processing of finely stranded with core end processing of finely stranded with core end processing of finely stranded with core end processing of finely stranded without core end processing of for auxiliary contacts of or auxiliary contacts		spring-loaded terminals
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing solid solid solid connectable conductor cross-section for main contacts solid so		
of magnet coil type of connectable conductor cross-sections for main contacts of solid stranded of niety stranded with core end processing of niety stranded without core end processing of niety stranded with core end processing of niety stranded without core end processing of niety stranded without core end processing of niety stranded with core end processing of niety stranded with core end processing of niety stranded with core end processing of new stranded of new stranded with core end processing of new stranded without core end processing of new stranded without core end processing of or auxiliary contacts of or AWG cables for auxiliary contacts of or AWG cables for auxiliary contacts of or main contacts of or main contacts of or main contacts of or main contacts of or auxiliary contacts of or auxiliary contacts of or auxiliary contacts of or main contacts of or main contacts of or auxiliary contacts		
type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • solid • stranded • finely stranded without core end processing • solid • stranded • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for main contacts • for auxiliary contacts • for main contacts • for auxiliary contacts • for auxiliary contacts	•	
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• finely stranded with core end processing • finely stranded without core end processing 2x (0.5 2.5 mm²) connectable conductor cross-section for main contacts • solid • stranded • stranded		2x (0.5 4 mm²)
• finely stranded without core end processing connectable conductor cross-section for main contacts • solid • stranded • stranded • stranded with core end processing • finely stranded without core end processing • finely stranded • finely stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data	solid or stranded	
connectable conductor cross-section for main contacts • solid • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded • finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 4 mm²) - finely stranded with core end processing • for auxiliary contacts — finely stranded with core end processing 2x (0.5 2.5 mm²) • for AWG cables for auxiliary contacts 2x (0.5 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 12) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts	 finely stranded with core end processing 	
solid stranded stranded stranded stranded	 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 stranded finely stranded with core end processing finely stranded without core end processing o.5 2.5 mm² connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts finely stranded with core end processing 2x (0.5 4 mm²) finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts for AWG number as coded connectable conductor cross section for main contacts for main contacts for auxiliary contacts 20 12 for auxiliary contacts Safety related data 	connectable conductor cross-section for main contacts	
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 finely stranded without core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing 2x (0,5 4 mm²) finely stranded with core end processing 2x (0,5 2.5 mm²) finely stranded without core end processing for AWG cables for auxiliary contacts for AWG number as coded connectable conductor cross section for main contacts for main contacts for auxiliary contacts 20 12 Safety related data 	• stranded	0.5 4 mm²
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded without core end processing - for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data	 finely stranded with core end processing 	0.5 2.5 mm²
 solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts for AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 20 12 Safety related data	 finely stranded without core end processing 	0.5 2.5 mm²
 finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts 20 12 Safety related data 	connectable conductor cross-section for auxiliary contacts	
• finely stranded without core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data	solid or stranded	0.5 4 mm²
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing 2x (0.5 2.5 mm²) — for AWG cables for auxiliary contacts 2x (20 12) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data	 finely stranded with core end processing 	0.5 2.5 mm²
for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data		0.5 2.5 mm²
- solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section - for main contacts - for auxiliary contacts 20 12 Safety related data	type of connectable conductor cross-sections	
— finely stranded with core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data	•	
- finely stranded without core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data		
• for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts Safety related data 2x (20 12) 20 12 20 12		
AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 Safety related data		
section • for main contacts • for auxiliary contacts 20 12 20 12 Safety related data		2x (20 12)
• for main contacts • for auxiliary contacts 20 12 20 12 Safety related data		
• for auxiliary contacts 20 12 Safety related data		20 12
Safety related data		
	<u> </u>	
product function	product function	

 mirror contact according to IEC 60947-4-1 	Yes; with 3RH29
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching OFF 	Yes

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping





Confirmation









Marine / Shipping

other

7.11.01



Confirmation

Vibration and Shock

Railway

Environmental Confirmations

Environment

Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT2018-2AV01

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2018-2AV01}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2AV01

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

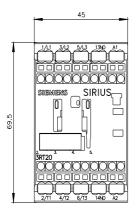
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-2AV01&lang=en

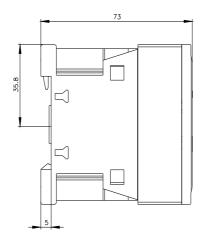
Characteristic: Tripping characteristics, I2t, Let-through current

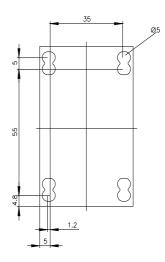
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-2AV01/char

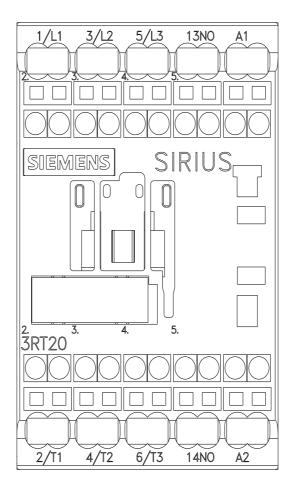
Further characteristics (e.g. electrical endurance, switching frequency)

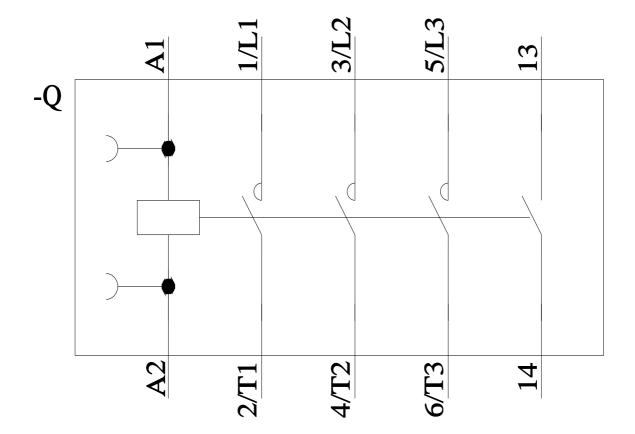
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2018-2AV01\&objecttype=14\&gridview=view1}$











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