## **SIEMENS**

Data sheet 3RT2017-2LF41



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO, 110 V DC 0.7-1.25\* US, with varistor integrated, 3-pole Size S00, Spring-type terminal

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	1.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.5 W
<ul> <li>without load current share typical</li> </ul>	2.8 W
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (switching cycles)	
of contactor typical	30 000 000
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	
<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 %
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3

operating voltage	000.1/
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	22.4
at AC-1 at 400 V at ambient temperature 40 °C rated value	22 A
• at AC-1	00.4
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• at AC-3	40.4
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	40.4
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
at AC-5a up to 690 V rated value	19.4 A
at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	7.2 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	7.2 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	7.2 A
<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	6.7 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	4.8 A
— up to 400 V for current peak value n=30 rated value	4.8 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	4.8 A
— up to 690 V for current peak value n=30 rated value	4.8 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	4.1 A
at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 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	0.07.
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.6 A 0.7 A
	U.I A
<ul> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> </ul>	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A

— at 440 V rated value	1.3 A
<ul><li>— at 600 V rated value</li></ul>	1 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	0.1 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 110 V rated value	0.35 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 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
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	5.5 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	5.5 kW
operating power for approx. 200000 operating cycles	
at AC-4	
at 400 V rated value	2 kW
at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	2.8 kVA
• up to 400 V for current peak value n=20 rated value	4.9 kVA
• up to 500 V for current peak value n=20 rated value	6.2 kVA
• up to 690 V for current peak value n=20 rated value	8 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	1.9 kVA
• up to 400 V for current peak value n=30 rated value	3.3 kVA
• up to 500 V for current peak value n=30 rated value	4.1 kVA
• up to 690 V for current peak value n=30 rated value	5.7 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>	200 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	123 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	96 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	74 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
<ul> <li>at AC-1 maximum</li> </ul>	1 000 1/h
<ul> <li>at AC-2 maximum</li> </ul>	750 1/h
<ul> <li>at AC-3 maximum</li> </ul>	750 1/h
• at AC-3e maximum	750 1/h
<ul> <li>at AC-4 maximum</li> </ul>	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	110 V
operating range factor control supply voltage rated	
value of magnet coil at DC	

• initial value	0.7
full-scale value	1.25
	with varistor
design of the surge suppressor	2.8 W
closing power of magnet coil at DC	
holding power of magnet coil at DC	2.8 W
closing delay	25 420
• at DC	25 130 ms
opening delay	7 00
• at DC	7 20 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 contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
<ul><li>at 400 V rated value</li></ul>	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
• at 24 V rated value	10 A
• at 48 V rated value	6 A
at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
<ul> <li>at 220 V rated value</li> </ul>	1 A
• at 600 V rated value	0.15 A
operational current at DC-13	
<ul> <li>at 24 V rated value</li> </ul>	10 A
<ul><li>at 48 V rated value</li></ul>	2 A
• at 60 V rated value	2 A
<ul> <li>at 110 V rated value</li> </ul>	1 A
<ul> <li>at 125 V rated value</li> </ul>	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]	
for single-phase AC motor	
— at 110/120 V rated value	0.5 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	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 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,
type or acongruinone in required	80kA)
• for short-circuit protection of the auxiliary switch	gG: 10 A (500 V, 1 kA)
required	
Installation/ mounting/ dimensions	

fastening method	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted
* side-by-side mounting	fastening method	
Moderation   Mod		according to DIN EN 60715
width		
required spacing   with side-by-side mounting	-	
evilh side-by-side mounting  - Inovards - Upwards - Upwards - Odorwards - Ommands - at the side - for grounded parts - Forwards - Upwards - Upwards - Inovards - Upwards - Forwards - Forwards - Upwards - Upwards - Upwards - Inomands - Upwards - Inomands - Upwards - Inomands - Upwards - Inomands - Upwards - Inomands - Ino		
• with side-by-side mounting	•	73 mm
forwards		
- upwards - downwards - at the side for grounded parts - forwards - upwards - upwards - at the side - downwards - upwards - at the side - downwards - to line parts - for live parts - forwards - for live parts - forwards - to mm - upwards - for live parts - forwards - upwards - downwards - to mm - upwards - downwards - to mm - downwards - at the side - downwards - at the side - for mm - upwards - downwards - to mm - downwards - at the side - formal current circuit - for auxiliary and control circuit - for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - at AVMC cables for main contacts - solid - solid - stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded		40
- downwards - at the side		
at the side  - for grounded parts  forwards  upwards  at the side  downwards  forwards  formard  forwards  formard  formard  for awdilary and control circuit  for main contacts  for main contacts  for main contacts  solid  solid or stranded  finely stranded with core end processing  finely stranded without core end processing  finely stran	•	
forwards upwards upwards upwards upwards upwards upwards downwards downwards for live parts forwards upwards upwards upwards upwards upwards upwards upwards upwards upwards downwards upwards upw		0 mm
- upwards	•	40
- at the side - downwards - for live parts - forwards - upwards - downwards - domnout of the side - at the side - for main current circuit - for main current circuit - at contactor 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 without core end processing - at AWG cables for main contacts - solid - sitranded - finely stranded without core end processing - finely stranded with core end processing - finely stranded without core end process		
• for live parts - forwards - forwards - upwards - upwards - downwards - at the side - at the side - formain current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of main cortacts - solid - finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded with core end process	•	
for live parts		
forwards upwards		TO THIRD
- upwards	•	10 mm
downwards at the side 6 mm   Connections/ Terminals  type of electrical connection  • for main current circuit spring-loaded terminals • at contactor 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  • for main contacts  - solid Spring-type terminals  • for main contacts  - solid solid or stranded solid or stranded solid or stranded with core end processing finely stranded without core end processing at AWG cables for main contacts solid -		
- at the side 6 mm   Connections/ Terminals  type of electrical connection  • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main current circuit  - solid - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts  • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts  - solid or stranded - finely stranded without core end processing • finely stranded without core end	•	
type of electrical connection  • for main current circuit • of maxiliary 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 • solid • stranded • finely stranded with core end processing • for on auxiliary contacts  - solid or stranded - finely stranded with core end processing • for on auxiliary contacts  - solid or stranded - finely stranded with core end processing • for on auxiliary contacts  - for auxiliary contacts • for auxiliary contacts		
type of electrical connection  • for main current circuit  • for auxiliary and control 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 — finely stranded without core end processing • stranded • finely stranded with core end processing • finely stranded with core end processing • 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 • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  • for for main contacts • for or auxiliary contacts  • for or auxiliary contacts  • for or auxiliary contacts  • for or auxiliary contacts  • for or auxiliary contacts  • for or auxiliary contacts  • for or auxiliary contacts  • for or auxiliary contacts  • for or auxiliary contacts  • for or auxiliary contacts  • for or 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 without core end processing     • at AWG cables for auxiliary contacts      • solid     • 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     • finely stranded with 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     • finely stranded wit		
of or auxiliary and control circuit     ot at contactor for auxiliary contacts     of magnet coil  type of connectable conductor cross-sections     of main contacts		
• at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts  — solid — solid or stranded — finely stranded without core end processing • fall y stranded without core end processing • finely stranded without core end processing • at AWG cables for main contacts  • solid • stranded • finely stranded without core end processing • solid or stranded • 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 auxiliary contacts  — solid or stranded — finely stranded without core end processing • for auxiliary contacts  AWG cables for auxiliary contacts • 20 12   AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  20 12		
of magnet coil     type of connectable conductor cross-sections		
• for main contacts  • for main contacts  - solid or stranded 2x (0,5 4 mm²)  - finely stranded with core end processing 2x (0,5 2,5 mm²)  • at AWG cables for main contacts  • solid or stranded 2x (0,5 2,5 mm²)  • at AWG cables for main contacts 2x (20 12)  Connectable conductor cross-section for main contacts  • solid 0,5 4 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 without core end processing 0,5 2,5 mm²  • finely stranded without core end processing 0,5 2,5 mm²  • finely stranded without core end processing 0,5 2,5 mm²  • finely stranded with core end processing 0,5 2,5 mm²  • finely stranded without core end processing 0,5 2,5 mm²  • finely stranded without core end processing 0,5 2,5 mm²  • finely stranded without core end processing 0,5 2,5 mm²  • finely stranded without core end processing 0,5 2,5 mm²  • finely stranded without core end processing 0,5 2,5 mm²  • for auxiliary contacts 2x (0,5 4 mm²)  — solid or stranded 2x (0,5 4 mm²)  — solid or stranded 2x (0,5 4 mm²)  — finely stranded without core end processing 2x (0,5 2,5 mm²)  • at AWG cables for auxiliary contacts 2x (0,5 2,5 mm²)  • at AWG cables for auxiliary contacts 2x (0,5 2,5 mm²)  • for main contacts 2x (0,5 2,5 mm²)	-	
• for main contacts	-	Spring-type terminals
- solid - solid or stranded - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts - solid - stranded without core end processing - solid - solid or stranded without core end processing - solid or stranded without core end processing - solid or stranded with core end processing - solid or stranded without core end processing - solid or stranded - solid or st		
- solid or stranded - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts  • solid • stranded • finely stranded with core end processing • 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 with 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 • for auxiliary contacts  2x (0.5 2.5 mm²  2x (0.5 2.5 mm²  2x (0.5 2.5 mm²)		0. (0.5
- finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts  • solid • stranded • stranded • 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 auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing • for auxiliary contacts  - solid or stranded - finely stranded without core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  • for auxiliary contacts		
<ul> <li>finely stranded without core end processing</li> <li>at AWG cables for main contacts</li> <li>2x (20 12)</li> </ul> connectable conductor cross-section for main contacts <ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> </ul> ye of connectable conductor cross-sections <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> </ul> <li>ye for auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>for main contacts</li> <li>for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> at AWG number as coded connectable conductor cross-section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> at AWG number as coded connectable conductor cross-section <ul> <li>for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> a connectable conductor cross-section <ul> <li>for auxiliary contacts</li> <li>20 12</li> </ul> Safety related data  product function		
at AWG cables for main contacts  connectable conductor cross-section for main contacts  a solid a stranded b finely stranded with core end processing b finely stranded without core end processing connectable conductor cross-section for auxiliary contacts b solid or stranded b finely stranded with core end processing connectable conductor cross-section for auxiliary contacts b solid or stranded b finely stranded with core end processing b finely stranded without core end processing b finely stranded without core end processing b for auxiliary contacts  - solid or stranded - finely stranded without core end processing b for auxiliary contacts  - solid or stranded - finely stranded with core end processing - finely stranded without core end processing 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  4x AWG cables for auxiliary contacts  - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - solid or st		
connectable conductor cross-section for main contacts  • solid  • stranded  • finely stranded with 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 with 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 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  • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts  • for auxiliary contacts  20 12  Safety related data  product function		
contacts  • solid • stranded • stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • solid or stranded • finely stranded with core end processing • 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 • 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)  - at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  20 12  - for auxiliary contacts  20 12  - for auxiliary contacts - for auxiliary contact		ZX (20 12)
solid     stranded     stranded     stranded		
<ul> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>o.5 2.5 mm²</li> <li>0.5 2.5 mm²</li> </ul> connectable conductor cross-section for auxiliary contacts <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG number as coded connectable conductor crosssection</li> <li>for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> AWG number as coded connectable conductor crosssection <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> 20 12 20 12 20 12   Safety related data product function		0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>for inely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> </ul> AWG number as coded connectable conductor cross section <ul> <li>for auxiliary contacts</li> <li>20 12</li> </ul> Safety related data product function Product function D.5 2.5 mm² 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) 2x (20 12) 3x (20 12 3x (20 12<		
finely stranded without core end processing     connectable conductor cross-section for auxiliary contacts		
connectable conductor cross-section for auxiliary contacts  • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing - 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 - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts - for auxiliary contacts - for auxiliar		
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> <li>— finely stranded without core end processing</li> <li>2x (0.5 2.5 mm²)</li> <li>2x (0.5 2.5 mm²)</li> <li>2x (0.5 2.5 mm²)</li> <li>2x (20 12)</li> </ul> AWG number as coded connectable conductor cross section <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> </ul> Safety related data product function	connectable conductor cross-section for auxiliary	
finely stranded without core end processing  type of connectable conductor cross-sections         of rauxiliary contacts	<ul> <li>solid or stranded</li> </ul>	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 2x (0.5 2.5 mm²) — finely stranded without core end processing 2x (0.5 2.5 mm²)  • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts  20 12  • for auxiliary contacts  20 12  Safety related data  product function	<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
<ul> <li>for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         — finely stranded without core end processing         — finely stranded without core end processing         — at AWG cables for auxiliary contacts         — at AWG number as coded connectable conductor cross section         — for main contacts         — for auxiliary contacts         — 2x (20 12)     </li> <li>Safety related data         product function</li> </ul>	<ul> <li>finely stranded without core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>
- solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section - for main contacts - for auxiliary contacts  20 12  Safety related data  product function	type of connectable conductor cross-sections	
- finely stranded with core end processing - finely stranded without core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  20 12  Safety related data  product function	<ul> <li>for auxiliary contacts</li> </ul>	
— finely stranded without core end processing	<ul><li>— solid or stranded</li></ul>	2x (0,5 4 mm²)
at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section      for main contacts     for auxiliary contacts     for auxiliary contacts     20 12     for auxiliary contacts  Product function  2x (20 12)  20 12	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts 20 12  • for auxiliary contacts 20 12  Safety related data  product function	<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
• for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12  Safety related data  product function	<ul> <li>at AWG cables for auxiliary contacts</li> </ul>	2x (20 12)
• for main contacts		
• for auxiliary contacts  20 12  Safety related data  product function		20 12
Safety related data product function		
product function	·	LV 1L
	mirror contact according to IEC 60947-4-1	No

B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 y
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
<ul> <li>safety-related switching OFF</li> </ul>	Yes
Ot:f:t1	

Certificates/ approvals

## **General Product Approval**





Confirmation



<u>KC</u>



Functional
Safety/Safety of
Machinery

**Declaration of Conformity** 

**Test Certificates** 

Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping

other

Railway Da

**Dangerous Good** 



Confirmation



Confirmation

Special Test Certificate <u>Transport Information</u>

## Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-2LF41

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2LF41

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2LF41

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

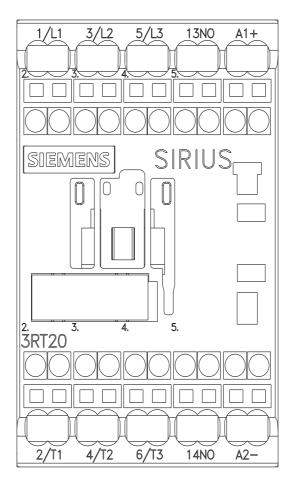
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-2LF41&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2LF41/cha

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2LF41&objecttype=14&gridview=view1



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