SIEMENS

Data sheet 3RT2027-2AF04



Contactor, AC-3, 15 kW / 400 V, 2 NO + 2 NC, 110 V AC, 50 Hz, 3-pole, Size S0 Spring-type terminal Removable auxiliary switch

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
product extension	
 function module for communication 	No
auxiliary switch	No
power loss [W] for rated value of the current	
 at AC in hot operating state 	6.3 W
 at AC in hot operating state per pole 	2.3 W
 without load current share typical 	9.8 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 safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 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	
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
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	50 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
• at AC-3	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
● at AC-3e	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-4 at 400 V rated value	22 A
• at AC-5a up to 690 V rated value	44 A
at AC-5b up to 400 V rated value	26.5 A
• at AC-6a	
up to 230 V for current peak value n=20 rated value	30.8 A
 up to 400 V for current peak value n=20 rated value 	30.8 A
 up to 500 V for current peak value n=20 rated value 	27 A
— up to 690 V for current peak value n=20 rated value value	21 A
 at AC-6a up to 230 V for current peak value n=30 rated value 	20.5 A
— up to 400 V for current peak value n=30 rated value	20.5 A
 up to 500 V for current peak value n=30 rated value 	18 A
— up to 690 V for current peak value n=30 rated value	18 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	10 mm ²
cycles at AC-4	
at 400 V rated value	12 A
• at 690 V rated value	12 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 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
with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 24 V rated value — at 110 V rated value	35 A
— at 110 V rated value — at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	

— at 24 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		
 at 1 current path at DC-3 at DC-5 			
— at 24 V rated value	20 A		
— at 110 V rated value	2.5 A		
— at 220 V rated value	1 A		
— at 440 V rated value	0.09 A		
— at 600 V rated value	0.06 A		
with 2 current paths in series at DC-3 at DC-5			
— at 24 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		
 with 3 current paths in series at DC-3 at DC-5 			
— at 24 V rated value	35 A		
— at 110 V rated value	35 A		
— at 220 V rated value	10 A		
— at 440 V rated value	0.6 A		
— at 600 V rated value	0.6 A		
operating power			
• at AC-3			
— at 230 V rated value	7.5 kW		
— at 400 V rated value	15 kW		
— at 500 V rated value	15 kW		
— at 690 V rated value	18.5 kW		
• at AC-3e			
— at 230 V rated value	7.5 kW		
— at 400 V rated value	15 kW		
— at 500 V rated value	15 kW		
— at 690 V rated value	18.5 kW		
operating power for approx. 200000 operating cycles			
at AC-4			
 at 400 V rated value 	6 kW		
at 690 V rated value	10.3 kW		
operating apparent power at AC-6a			
 up to 230 V for current peak value n=20 rated value 	12.2 kVA		
 up to 400 V for current peak value n=20 rated value 	21.3 kVA		
 up to 500 V for current peak value n=20 rated value 	23.3 kVA		
• up to 690 V for current peak value n=20 rated value	25 kVA		
operating apparent power at AC-6a			
 up to 230 V for current peak value n=30 rated value 	8.1 kVA		
 up to 400 V for current peak value n=30 rated value 	14.2 kVA		
 up to 500 V for current peak value n=30 rated value 	15.5 kVA		
• up to 690 V for current peak value n=30 rated value	21.5 kVA		
short-time withstand current in cold operating state up to 40 °C			
 limited to 1 s switching at zero current maximum 	499 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	395 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	260 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 30 s switching at zero current maximum 	186 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 60 s switching at zero current maximum 	152 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	750 1/h		
at AC-3 maximum	750 1/h		

-t AO 2i	750.4%
• 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	110 V
operating range factor control supply voltage rated	
value of magnet coil at AC	0.8 1.1
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC • at 50 Hz	77 VA
inductive power factor with closing power of the coil	II VA
at 50 Hz	0.82
apparent holding power of magnet coil at AC	0.02
• at 50 Hz	9.8 VA
inductive power factor with the holding power of the	3.0 VA
coil	
● at 50 Hz	0.25
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	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	6 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	
at 480 V rated value	27 A
• at 600 V rated value	27 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	2 hp
— at 230 V rated value	5 hp
• for 3-phase AC motor	

at 200/230 V rited value at 480/480 V rated value at 480/480 V rated value at 480/480 V rated value at 575/500 V rated value value per decordination of the main circuit with type of assignment 2 required w		
— at 460/480 V rated value 20 hp contact rating of auxiliary contacts according to UL Short-circuit protection 4800 / 0800 Short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch — shide-by-side mounting — shide-by-side mounting — shide-by-side mounting — with side by-side mounting — forwards — upwards — upwards — of main current circuit — of or ground parts — forwards — upwards — of the side — downwards — of the parts — forwards — upwards — of the parts — forwards — of the parts — forwards — upwards — of main current circuit — shide — downwards — of main current circuit — of main current circuit — of main current circuit — shide — shide or stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded with core end processing — shidely stranded with core end processing — shelly stranded with core end processing — shell y	— at 200/208 V rated value	10 hp
	 at 220/230 V rated value 	·
contact rating of auxillary contacts according to UL Short-directly protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch • side by side mounting • side by side mounting • with sid		
Short-circuit protection design of the fuse link of short-circuit protection of the main circuit		
design of the fuse link • for short-circult protection of the main circuit — with type of assignment 2 required for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required space for short-circuit protection of the auxiliary switch required space for system of short switch sw		A600 / Q600
For short-circuit protection of the main circuit — with type of assignment 2 required	Short-circuit protection	
- with type of coordination 1 required (15% 2000/1) - with type of assignment 2 required (15% 2000/1) - with type of assignment 2 required (15% 2000/1) - for short-circuit protection of the auxiliary switch required (15% 2000/1) - for short-circuit protection of the auxiliary switch required (15% 2000/1) - for short-circuit protection of the auxiliary switch required (15% 2000/1) - for short-circuit protection of the auxiliary switch required (15% 2000/1) - for short-circuit protection of the auxiliary switch (15% 2000/1) - for short-circuit protection of the auxiliary switch (15% 2000/1) - for short-circuit protection of the auxiliary switch (15% 2000/1) - for statillation/ mounting/dimensions - which side by-side mounting (15% 2000/1) - for side-by-side mounting (15% 2000/1) - forwards (10 mm (15% 2000/1) - forwards (10 mm (15% 2000/1) - for or switch short side (10 mm (15% 2000/1) - for switch side (10 mm (15% 2000/1) -	•	
- with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position +/-180" rotation possible on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting surface; can be tilted forward and backward by +/-2.2.5" on vertical mounting rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • forwards • of mm • downwards • of grounded parts • for grounded parts • for grounded parts • for grounded parts • for live parts • for main current circuit • for auxiliary and control circuit • of main current circuit • for main current circuit • for main contacts • solid • solid or stranded • 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 with core end processing • finely stranded without core end processing • finely stranded wit	•	
with type of assignment 2 required 80kA) • for short-circuit protection of the auxiliary switch required installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting • with side-by-side mounting • for grounded parts - for grounded parts - for grounded parts - forwards - at the side • downwards - at the side - downwards • of ilve parts - forwards - upwards • for wards - to five parts - forwards - forwards - to five parts - forwards - forwards - to five parts - forwards - forwards - forwards - forwards - for wards - forwards - for main current circuit • for main current circuit • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • finely stranded without core end processing • finely stranded withou	 — with type of coordination 1 required 	
• for short-circuit protection of the auxillary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting • leight installation/ mounting • side-by-side mounting • with side-by-side mounting • for younded parts — upwards — upwards — downwards — at the side • for grounded parts — for younded parts — for younded parts — in the side • for with yound you wards • for live parts — upwards — upwards — the side — downwards 10 mm • for live parts — forwards — upwards — the side — downwards 10 mm • for main current circuit • for main contacts — solid — solid or stranded — finely stranded without core end processing • finely stranded without core end proce	— with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V,
mounting position mounting position fastening method side-by-side mounting - interest side - ownwards - ownw		<i>'</i>
mounting position +-180" rotation possible on vertical mounting surface; can be tilted forward and backward by 4-2.25 or on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 +	<u> </u>	
forward and backward by + 22.5" on vertical mounting surface side-by-side mounting e side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — downwards — at the side — downwards — to fir live parts — for live parts — of winwards — upwards — to fir live parts — for live parts — for for indeparts — ownwards — ownwards — to fir live parts — for forwards — at the side — downwards — to fir live parts — for live parts — for live parts — of orman current circuit — at the side — at the side — at the side — ownwards — to fir live parts — for live parts — for live parts — ownwards — own		+/-180° rotation possible on vertical mounting surface; can be tilted
e side-by-side mounting Peight width depth required spacing • with side-by-side mounting — forwards — upwards — at the side — of orgrounded parts — to five parts — at the side — downwards — to man — at the side — downwards — to man — upwards — to man — to man — upwards — to man — to m		
height width 45 mm depth 144 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — at the side 0 mm — to required spacing • for grounded parts — forwards 10 mm — at the side 0 mm — at the side 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm — to rive parts — forwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm — at the side 6 mm — downwards 10 mm — side 5 mm — upwards 10 mm — at the side 6 mm — to round to require space s	fastening method	
width depth 144 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — the side • for grounded parts — forwards — upwards — at the side • for mounted parts — for live parts — at the side Connections/ Terminals 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 — solid — 2x (1 10 mm²) — finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded without core end processing • at AWG cables for main contacts • solid • finely stranded with core end processing • at AWG cables for main contacts • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing		
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — 10 mm • for live parts — forwards — forwards — 10 mm • for live parts — forwards — upwards — 10 mm • for live parts — forwards — upwards — 10 mm • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil — solid — solid or stranded — finely stranded with core end processing • at AVIVC sobles for main contacts • solid • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end p		
required spacing with side-by-side mounting — forwards — upwards — at the side • for grounded parts — forwards — upwards — 10 mm • of main current circuit • for auxiliary and control circuit • of main contacts — solid — solid — solid — solid — solid — formin contacts • solid — formin contacts • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing		
with side-by-side mounting - forwards - upwards - downwards - at the side of grounded parts - forwards - upwards - upwards - upwards - at the side of mm - downwards - upwards - at the side - downwards - at the side - downwards - to mm - of rive parts - forwards - for live parts - forwards - upwards - downwards - upwards - downwards - upwards - downwards - downwards - downwards - to mm - of a main current circuit - for auxiliary and control circuit - for auxiliary and control circuit - so for auxiliary and control circuit - so find and contacts - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts - solid - solid - stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded - finely stranded - finely stranded - finely stranded with core end processing - finely stranded without core end processing - finely s	depth	144 mm
forwards		
- upwards	with side-by-side mounting	
- downwards - at the side • for grounded parts - forwards - upwards - at the side • for mm - upwards - at the side - downwards • for live parts - forwards - upwards - forwards - upwards - forwards - upwards - downwards - downwards - downwards - downwards - downwards - at the side - for mm - the side - for mm Connections/ Terminals 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 • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded wit	— forwards	10 mm
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards • for live parts - forwards - upwards - downwards - downwards - downwards - downwards - at the side 6 mm 10 mm 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current 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 • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards — 10 mm • for live parts — forwards — upwards — upwards — ownwards — 10 mm • for live parts — forwards — upwards — downwards — 10 mm — downwards — at the side — for main current circuit — for auxiliary and control circuit — of or auxiliary and control circuit — so for magnet coil type of connectable conductor cross-sections — for main contacts — solid — solid or stranded — finely stranded without core end processing — finely stranded without core end processing — at AWG cables for main contacts — solid — solid — solid — solid or stranded — finely stranded without core end processing — at AWG cables for main contacts — solid — solid — solid — solid or stranded — finely stranded without 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 without core end processing	— downwards	10 mm
- forwards - upwards - at the side - downwards • for live parts - forwards - upwards - for live parts - forwards - upwards - upwards - upwards - downwards - downwards - downwards - downwards - downwards - at the side - formal contection • for main current circuit • for auxiliary and control circuit • of or 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 • at AWG cables for main contacts - solid • at AWG cables for main contacts - solid • at AWG cables for main contacts - solid • at AWG cables for main contacts - solid • stranded • finely stranded with core end processing • at finely stranded with core end processing • at finely stranded with core end processing • at finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded without core end processing	— at the side	0 mm
- upwards - at the side - downwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm - downwards 10 mm - at the side 6 mm Connectable conductor cross-section for main contacts • 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 contacts •	 for grounded parts 	
- at the side - downwards - for live parts - for wards - upwards - upwards - downwards - at the side - for main current circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - of magnet coil - of magnet coil - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts - solid - solid - solid - at AWG cables for main contacts - solid - stranded - finely stranded with core end processing - stranded - finely stranded with core end processing - stranded - finely stranded with core end processing - stranded - finely stranded with core end processing - stranded - finely stranded with core end processing - stranded - finely stranded with core end processing - finely stranded without core end processing - finely strand	— forwards	10 mm
- downwards • for live parts - forwards - upwards - downwards - at the side Connections/ Terminals 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 out core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing	— upwards	10 mm
• for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • at contactor for auxiliary and control circuit • at contactor for auxiliary contacts • for main contacts — solid — solid or stranded — finely stranded with our cend processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing	— at the side	6 mm
- forwards	— downwards	10 mm
- upwards - downwards - at the side Connections/ Terminals 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 • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely cornactable conductor cross-section for auxiliary connectable conductor cross-section for auxiliary connectable conductor cross-section for auxiliary contacts	for live parts	
- downwards - at the side Connections/ Terminals type of electrical connection	— forwards	10 mm
- 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 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 2x (1 10 mm²) - solid or stranded 2x (1 10 mm²) - finely stranded with core end processing 2x (1 6 mm²) • at AWG cables for main contacts 2x (18 8) connectable conductor cross-section for main contacts • solid 1 10 mm² • stranded 5 stranded with core end processing 1 6 mm² • finely stranded with core end processing 1 6 mm² connectable conductor cross-section for auxiliary contacts	— upwards	10 mm
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 • at AWG cables for main contacts 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 10 mm²) 2x (1 6 mm²) 2x (1 6 mm²) 2x (1 6 mm²) - at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded without core end processing	— downwards	10 mm
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 • at AWG cables for main contacts • solid styne of connectable conductor cross-sections • finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • stranded • finely stranded with core end processing • finely stranded without core end processing • finely connectable conductor cross-section for auxiliary contacts	— at the side	6 mm
• 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 • at AWG cables for main contacts • solid • at AWG cables for main contacts • solid • solid • stranded • finely stranded with core end processing • at AWG cables for main contacts • solid • stranded • finely stranded with core end processing • finely stranded with core end processing • 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 conductor cross-section for auxiliary contacts **To mm²* 1 6 mm² 1 6 mm² **Connectable conductor cross-section for auxiliary contacts**	Connections/ Terminals	
• 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 — at AWG cables for main contacts • solid • at AWG cables for main contacts • solid • solid • at AWG cables for main contacts • solid • so	type of electrical connection	
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections of for main contacts - solid - solid or stranded - finely stranded without core end processing of at AWG cables for main contacts - solid connectable conductor cross-section for main contacts - solid - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for main contacts - solid - solid - 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 strand	• for main current circuit	spring-loaded terminals
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections of for main contacts - solid - solid or stranded - finely stranded without core end processing of at AWG cables for main contacts - solid connectable conductor cross-section for main contacts - solid - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for main contacts - solid - solid - 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 strand	 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 with core end processing — finely stranded without 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 with core end processing • finely stranded with core end processing • finely stranded without core end processing	 at contactor for auxiliary contacts 	
 for main contacts — 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 connectable conductor cross-section for main contacts solid stranded stranded finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for auxiliary contacts for mm² 1 6 mm² 1 6 mm² 1 6 mm² connectable conductor cross-section for auxiliary contacts 	of magnet coil	
 for main contacts — 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 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 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 - finely stranded without core end processing - at AWG cables for main contacts - 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 - connectable conductor cross-section for auxiliary contacts	• for main 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 main contacts connectable conductor cross-section for main contacts • solid • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing connectable conductor cross-section for auxiliary contacts 2x (1 10 mm²) 2x (1 6 mm²) 1 10 mm² 1 10 mm² 1 6 mm² 1 6 mm²	— solid	2x (1 10 mm²)
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts at a solid 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 contacts 	— solid or stranded	
 finely stranded without core end processing at AWG cables for main contacts at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing finely stranded without core end processing finely contacts connectable conductor cross-section for auxiliary contacts 	 finely stranded with core end processing 	
 at AWG cables for main contacts connectable conductor cross-section for main contacts solid 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 		
connectable conductor cross-section for main contacts • solid • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing connectable conductor cross-section for auxiliary contacts 1 10 mm² 1 6 mm² 1 6 mm²		
 stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing 6 mm² connectable conductor cross-section for auxiliary contacts 		
 finely stranded with core end processing finely stranded without core end processing connectable conductor cross-section for auxiliary contacts 	• solid	1 10 mm²
• finely stranded without core end processing connectable conductor cross-section for auxiliary contacts 1 6 mm²	• stranded	1 10 mm²
◆ finely stranded without core end processing 1 6 mm² connectable conductor cross-section for auxiliary contacts	 finely stranded with core end processing 	1 6 mm²
connectable conductor cross-section for auxiliary contacts		1 6 mm²
• solid or stranded 0.5 2.5 mm ²	connectable conductor cross-section for auxiliary	
· · · · · · · · · · · · · · · · · · ·	solid or stranded	0.5 2.5 mm²

0.5 1.5 mm²
0.5 2.5 mm²
2x (0.5 2.5 mm²)
2x (0.5 1.5 mm²)
2x (0.5 2.5 mm²)
2x (20 14)
18 8
20 14
Yes
No
450 000
40 %
73 %
100 FIT
20 y
IP20
finger-safe, for vertical contact from the front
Yes

General Product Approval



Confirmation





<u>KC</u>



Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate



Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

other







Confirmation

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=3RT2027-2AF04

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2027-2AF04}$

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2AF04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-2AF04&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2AF04/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-2AF04&objecttype=14&gridview=view1

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