SIEMENS

Data sheet

3RT2045-3AN20

power contactor, AC-3 80 A, 37 kW / 400 V 1 NO + 1 NC, 220 V AC/50/60 Hz 3-pole, 3 NO, Size S3 Spring-type terminal



product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S3
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 	15.9 W
 at AC in hot operating state per pole 	5.3 W
power loss [W] for rated value of the current without load current share typical	25 W
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 60947-1 	690 V

protection class IP	
• on the front	IP20
• of the terminal	IP00
shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms
shock resistance with sine pulse	
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code acc. to DIN EN 81346-2	Q
Ambient conditions	
 installation altitude at height above sea level 	2 000 m
maximum	
ambient temperature	
 during operation 	-25 +60 °C
• during storage	-55 +80 °C
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 	1 000 V
operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	125 A
● at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	125 A
— up to 690 V at ambient temperature 60 °C rated value	105 A
— up to 1000 V at ambient temperature 40 °C rated value	60 A
— up to 1000 V at ambient temperature 60 °C rated value	50 A
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
• at AC-4 at 400 V rated value	66 A

• at AC-5a up to 690 V rated value	110 A
• at AC-5b up to 400 V rated value	80 A
● at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	80 A
— up to 400 V for current peak value n=20 rated value	80 A
— up to 500 V for current peak value n=20 rated value	80 A
— up to 690 V for current peak value n=20 rated value	58 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	54 A
— up to 400 V for current peak value n=30 rated value	54 A
— up to 500 V for current peak value n=30 rated value	54 A
— up to 690 V for current peak value n=30 rated value	54 A
minimum cross-section in main circuit	
 at maximum AC-1 rated value 	50 mm²
operating current for approx. 200000 operating	
cycles at AC-4	
	34 A
cycles at AC-4	34 A 24 A
• at 400 V rated value	
cycles at AC-4at 400 V rated valueat 690 V rated value	
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current	
 cycles at AC-4 at 400 V rated value at 690 V rated value operating current at 1 current path at DC-1 	24 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value	24 A 100 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value	24 A 100 A 9 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value	24 A 100 A 9 A 2 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value	24 A 100 A 9 A 2 A 0.6 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value	24 A 100 A 9 A 2 A 0.6 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 24 V rated value — at 20 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1	24 A 100 A 9 A 2 A 0.6 A 0.4 A
 cycles at AC-4 at 400 V rated value at 690 V rated value operating current at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value 	24 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value = at 110 V rated value	24 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value = at 110 V rated value — at 24 V rated value = at 110 V rated value — at 220 V rated value	24 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 24 V rated value	24 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A 100 A 10 A
cycles at AC-4 • at 400 V rated value • at 690 V rated value operating current • at 1 current path at DC-1 — at 24 V rated value — at 210 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 24 V rated value — at 220 V rated value — at 240 V rated value — at 240 V rated value — at 200 V rated value	24 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A 100 A 10 A
 cycles at AC-4 at 400 V rated value at 690 V rated value operating current at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 24 V rated value at 24 V rated value at 600 V rated value at 210 V rated value at 24 V rated value at 20 V rated value 	24 A 100 A 9 A 2 A 0.6 A 0.4 A 100 A 100 A 10 A 10 A 1.8 A 1 A

— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
operating current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	40 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 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	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 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	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	37 kW
● at AC-3	
— at 230 V rated value	22 kW
— at 400 V rated value	37 kW
— at 500 V rated value	45 kW
— at 690 V rated value	55 kW
operating power for approx. 200000 operating cycles	
at AC-4	17.9 kW
at 400 V rated value	21.8 kW
at 690 V rated value	
 operating apparent output at AC-6a up to 230 V for current peak value n=20 rated 	31 kV·A
• up to 230 v for current peak value n=20 rated value	
 up to 400 V for current peak value n=20 rated value 	55 kV·A
 up to 500 V for current peak value n=20 rated value 	69 kV·A
 up to 690 V for current peak value n=20 rated value 	69 kV·A
operating apparent output at AC-6a	

 up to 230 V for current peak value n=30 rated value 	21.5 kV·A
 up to 400 V for current peak value n=30 rated value 	37.4 kV·A
 up to 500 V for current peak value n=30 rated value 	46.7 kV·A
 up to 690 V for current peak value n=30 rated value 	64.5 kV·A
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	1 500 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	1 186 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	851 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	538 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	423 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	900 1/h
• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz rated value	220 V
● at 60 Hz rated value	220 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	348 V·A
• at 60 Hz	296 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.62
• at 60 Hz	0.55
apparent holding power of magnet coil at AC	

● at 50 Hz	25 V·A
• at 60 Hz	18 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.35
• at 60 Hz	0.41
closing delay	
• at AC	13 50 ms
opening delay	
• at AC	10 21 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2

Auxiliary circuit	
number of NC contacts for auxiliary contacts	
 instantaneous contact 	1
number of NO contacts for auxiliary contacts	
 instantaneous contact 	1
operating current at AC-12 maximum	10 A
operating 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
operating 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
operating 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)

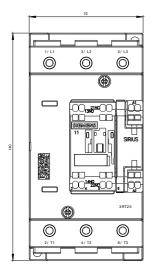
UL/CSA ratings

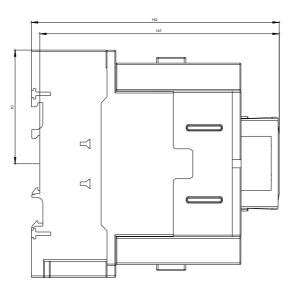
full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	77 A
• at 600 V rated value	62 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	15 hp
• for three-phase AC motor	
— at 200/208 V rated value	25 hp
— at 220/230 V rated value	30 hp
— at 460/480 V rated value	60 hp
— at 575/600 V rated value	60 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)
— with type of assignment 2 required	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)
 — with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	
• for short-circuit protection of the auxiliary switch required	(415V,80kA)
• for short-circuit protection of the auxiliary switch	(415V,80kA)
• for short-circuit protection of the auxiliary switch required	(415V,80kA) gG: 10 A (500 V, 1 kA)
• for short-circuit protection of the auxiliary switch required	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting
• for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting type	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting type side-by-side mounting	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting type side-by-side mounting height	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth 	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing with side-by-side mounting 	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing with side-by-side mounting – forwards 	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards 	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards downwards 	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards downwards at the side 	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm
 for short-circuit protection of the auxiliary switch required nstallation/ mounting/ dimensions mounting position mounting type side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards downwards at the side for grounded parts 	(415V,80kA) gG: 10 A (500 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes 140 mm 70 mm 152 mm 20 mm 10 mm 0 mm

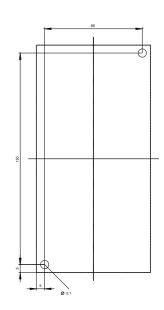
deursusede	10 mm
— downwards	
for live parts	20 mm
— forwards	10 mm
— upwards	
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	screw-type terminals
 for auxiliary and control current circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
● of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	
• for main contacts	
 — finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)
 at AWG conductors for main contacts 	2x (10 1/0), 1x (10 2)
connectable conductor cross-section for main	
contacts	
• solid	2.5 16 mm²
• stranded	6 70 mm²
 finely stranded with core end processing 	2.5 50 mm²
connectable conductor cross-section for auxiliary	
contacts	
 single or multi-stranded 	0.5 2.5 mm ²
 finely stranded with core end processing 	0.5 2.5 mm ²
 finely stranded without core end processing 	0.5 2.5 mm²
• type of connectable conductor cross-sections	
for auxiliary contacts	$2 \times (0.5 - 0.5 \text{ mm}^2)$
— single or multi-stranded	2x (0.5 2.5 mm ²)
— finely stranded with core end processing	2x (0.5 1.5 mm ²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 type of connectable conductor cross-sections at 	2x (20 16)
AWG conductors for auxiliary contacts	
AWG number as coded connectable conductor cross section	
• for main contacts	10 2
 for auxiliary contacts 	20 14
Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	1 000 000
proportion of dangerous failures	

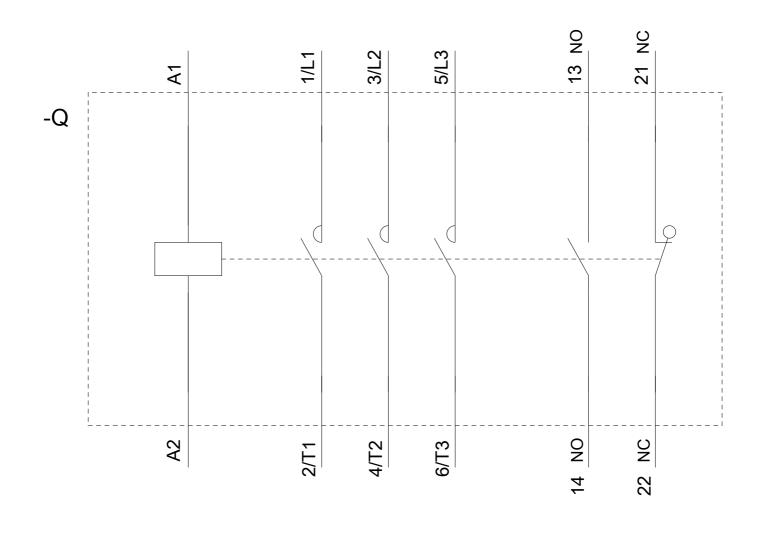
 with low deman 	d rate acc. to SN 31	920	40 %		
• with high demand rate acc. to SN 31920		73 %			
ailure rate [FIT]					
 with low deman 	d rate acc. to SN 31	920	100 FIT		
product function					
 mirror contact a 	acc. to IEC 60947-4-	1	Yes		
 positively driver 	• positively driven operation acc. to IEC 60947-5-		No		
1					
1 value for proof tes EC 61508	t interval or service l	life acc. to	20 у		
protection against ele	ectrical shock		finger-safe when touched	d vertically from fron	t acc. to IEC 60529
uitability for use safe	ety-related switching	OFF	Yes		
ertificates/ approva				_	5140
General Product	Approval				EMC
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	CSA	UL		LIIL	RCM
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Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2045-3AN20&objecttype=14&gridview=view1









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