SIEMENS

Data sheet

3RT2036-3AL16



power contactor, AC-3 51 A, 22 kW / 400 V 2 NO + 2 NC, 230 V AC, 60 Hz 3-pole, size S2, spring-loaded terminal lateral auxiliary switch block

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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 	12 W
 at AC in hot operating state per pole 	4 W
 without load current share typical 	18.5 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	9.1g / 5 ms, 6.2g / 10 ms
shock resistance with sine pulse	
• at AC	14.2g / 5 ms, 9.6g / 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)	10/01/2014
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 	70 A
● at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	70 A
— up to 690 V at ambient temperature 60 °C rated value	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
 at AC-4 at 400 V rated value 	41 A
 at AC-5a up to 690 V rated value 	61.6 A
• at AC-5b up to 400 V rated value	41.5 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	43.2 A
 up to 400 V for current peak value n=20 rated value 	43.2 A
 — up to 500 V for current peak value n=20 rated value 	43.2 A
 — up to 690 V for current peak value n=20 rated value 	24 A
 at AC-6a up to 230 V for current peak value n=30 rated value 	28.8 A
 up to 400 V for current peak value n=30 rated value 	28.8 A
 — up to 500 V for current peak value n=30 rated value 	28.8 A
— up to 690 V for current peak value n=30 rated value	24 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	25 mm ²
cycles at AC-4	
 at 400 V rated value 	24 A
• at 690 V rated value	20 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1A
— 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	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
	0.07
 with 3 current paths in series at DC-1 	

- at 24 V rated value 55 Å - at 220 V rated value 45 Å - at 420 V rated value 29 Å - at 600 V rated value 1.4 Å • at 1 current path at DC-3 at DC-3 - - at 220 V rated value 1.4 Å - at 220 V rated value 25 Å - at 220 V rated value 1.4 Å - at 410 V rated value 2.5 Å - at 220 V rated value 0.1 Å - at 440 V rated value 0.06 Å • with 2 current path is nestes at DC-3 at DC-5 - - at 220 V rated value 25 Å - at 220 V rated value 26 Å - at 400 V rated value 0.6 Å - at 400 V rated value 26 Å - at 400 V rated value 28 kW - at 400 V rated value 28 kW - at 400 V rated value 28 kW - at 600 V rated value <	 at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 1 current path at DC-3 at DC-5 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 220 V rated value at 440 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 440 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 220 V rated value at 220 V rated value at 420 V rated value at 420 V rated value at 600 V rated value 	55 A 45 A 2.9 A 1.4 A 35 A 2.5 A 1 A 0.1 A 0.06 A 55 A 25 A 5 A 0.27 A
	 at 220 V rated value at 440 V rated value at 600 V rated value at 1 current path at DC-3 at DC-5 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 at 220 V rated value at 220 V rated value at 440 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 220 V rated value at 420 V rated value at 420 V rated value at 600 V rated value at 600 V rated value at 600 V rated value 	45 A 2.9 A 1.4 A 35 A 2.5 A 1 A 0.1 A 0.06 A 55 A 25 A 5 A 0.27 A
- at 400 V rated value 2.9 A - at 600 V rated value 35 A - at 220 V rated value 2.5 A - at 220 V rated value 2.5 A - at 220 V rated value 0.1 A - at 600 V rated value 0.1 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 55 A - at 110 V rated value 55 A - at 220 V rated value 55 A - at 420 V rated value 0.10 A - at 600 V rated value 55 A - at 220 V rated value 55 A - at 110 V rated value 0.10 A - at 600 V rated value 0.10 A - at 600 V rated value 0.07 A - at 600 V rated value 0.07 A - at 600 V rated value 0.07 A - at 600 V rated value 0.06 A - at 220 V rated value 0.07 A - at 240 V rated value 0.07 A - at 240 V rated value 0.06 A - at 200 V rated value 0.06 A - at 600 V rated value 0.07 A - at 600 V rated value 0.07 A - at 600 V rated value 0.06 A - at 600 V rated value 0.06 A - at 600 V rated value 0.06 A - at 600 V rated value 0.07 A - at 600 V fract value 0.07 A	 at 440 V rated value at 600 V rated value at 1 current path at DC-3 at DC-5 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 110 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 440 V rated value at 440 V rated value at 220 V rated value at 220 V rated value at 440 V rated value at 20 V rated value at 440 V rated value at 220 V rated value at 440 V rated value at 220 V rated value at 440 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 220 V rated value at 600 V rated value at 600 V rated value 	2.9 A 1.4 A 35 A 2.5 A 1 A 0.1 A 0.06 A 55 A 25 A 5 A 0.27 A
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	 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 operating power at AC-2 at 400 V rated value at AC-3 at 230 V rated value 	0.1074
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Imited to 60 s switching at zero current maximum 229 A: Use minimum cross-section acc. to AC-1 rated value	_	
	 limited to 60 s switching at zero current maximum 	229 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency		
• at AC 5 000 1/h		5 000 1/h
operating frequency		
• at AC-1 maximum 1 000 1/h	● at AC-1 maximum	
• at AC-2 maximum 600 1/h	• at AC-2 maximum	1 000 1/h
at AC-3 maximum 800 1/h	• at AC-3 maximum	1 000 1/h 600 1/h

a at AC 20 mayimum	200 1/b
• at AC-3e maximum	800 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 60 Hz rated value	230 V
operating range factor control supply voltage rated	
value of magnet coil at AC	
• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC • at 60 Hz	040.1/4
	212 VA
inductive power factor with closing power of the coil	0.07
• at 60 Hz	0.67
apparent holding power of magnet coil at AC	18.5 VA
• at 60 Hz	10.3 VA
inductive power factor with the holding power of the coil	
• at 60 Hz	0.37
closing delay	
• at AC	10 80 ms
opening delay	
• at AC	10 18 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	2
instantaneous contact	
number of NO contacts for auxiliary contacts	2
instantaneous contact	10.4
operational current at AC-12 maximum operational current at AC-15	10 A
at 230 V rated value	6 A
at 200 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 24 V rated value	6 A
at 40 V rated value	6 A
at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value at 220 V rated value	2 A 1 A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	6 A
at 24 V rated value at 48 V rated value	2 A
at 40 V rated value	2 A 2 A
at 110 V rated value	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	52 A
at 600 V rated value at 600 V rated value	52 A 52 A
 yielded mechanical performance [hp] for single-phase AC motor 	
at 110/120 V rated value	3 hp
— at 230 V rated value	10 hp
 for 3-phase AC motor 	

at 200/208 V rated value	15 hn			
— at 200/208 V rated value	15 hp			
— at 220/230 V rated value — at 460/480 V rated value	15 hp			
— at 460/480 V rated value — at 575/600 V rated value	40 hp			
contact rating of auxiliary contacts according to UL	50 hp A600 / Q600			
Short-circuit protection	A0007 Q000			
design of the fuse link				
for short-circuit protection of the main circuit				
- with type of coordination 1 required	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415			
	V, 80 kA)			
 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)			
 for short-circuit protection of the auxiliary switch 	gG: 10 A (500 V, 1 kA)			
required				
Installation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface			
fastening method	screw and snap-on mounting onto 35 mm standard mounting sallace			
lastening method	according to DIN EN 60715			
 side-by-side mounting 	Yes			
height	114 mm			
width	75 mm			
depth	130 mm			
required spacing				
 with side-by-side mounting 				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
for grounded parts				
— forwards	10 mm			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
 for live parts forwards 	10 mm			
— upwards — downwards	10 mm 10 mm			
— at the side	6 mm			
Connections/ Terminals	0 mm			
type of electrical connection • for main current circuit	screw-type terminals			
for auxiliary and control 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				
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)			
— finely stranded with core end processing	2x (1 25 mm ²), 1x (1 35 mm ²)			
at AWG cables for main contacts	2x (18 2), 1x (18 1)			
connectable conductor cross-section for main				
contacts				
finely stranded with core end processing	1 35 mm²			
connectable conductor cross-section for auxiliary contacts				
 solid or stranded 	0.5 2.5 mm ²			
 finely stranded with core end processing 	0.5 1.5 mm²			
 finely stranded without core end processing 	0.5 2.5 mm ²			
type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid or stranded	2x (0.5 2.5 mm ²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm²)			

-	nded without core end p	processing	2x (0.5 2.5 mm ²)			
	for auxiliary contacts		2x (20 14)			
AWG number as coc section	ded connectable cond	luctor cross				
for main contacts		18 1				
 for auxiliary con 	itacts		20 14			
afety related data						
product function						
 mirror contact a 	according to IEC 60947	-4-1	Yes			
	ositively driven operation according to IEC 60947-		No			
5-1			4 000 000			
proportion of dange	· · · · ·	0 SN 31920	1 000 000			
	id rate according to SN	31920	40 %			
	nd rate according to SN		73 %			
	low demand rate accord		100 FIT			
31920						
IEC 61508	t interval or service life		20 у			
60529	on the front according		IP20			
	the front according to	DIEC 60529	finger-safe, for vertical conta	act from the front		
suitability for use			Yes			
safety-related s	-		res			
Certificates/ approvals General Product Ap		_			_	
CSA		ccc	UL			
EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> ate	
Marine / Shipping						
ABS	BUREAU VERITAS		Llovdis Register urs	PRS	RINA	
Marine / Shipping	other		Railway	Dangerous Good		
KMRS RMRS	<u>Confirmation</u>	Confirmatio	on <u>Vibration and Shock</u>	<u>Transport Informa-</u> <u>tion</u>		
urther information Information- and Do https://www.siemens.c	wnloadcenter (Catalo	gs, Brochures,.)			

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