SIEMENS

Data sheet

3RT2047-3NB34-3MA0



power contactor, AC-3e/AC-3, 110 A, 55 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 2 NO + 2 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S3, captive auxiliary switch

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 	23.7 W
 at AC in hot operating state per pole 	7.9 W
 without load current share typical 	1.8 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	10.3g / 5 ms, 6,.g / 10 ms
• at DC	6.7 g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at AC	16.3g / 5 ms, 10.g / 10 ms
● at DC	10.6 g / 5 ms, 6.3 g / 10 ms
mechanical service life (operating 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)	03/01/2017
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
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 %
Aain 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
at AC-3e rated value maximum	1 000 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	130 A
value	150 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	130 A
value	
— up to 690 V at ambient temperature 60 °C rated	110 A
value	
• at AC-3	
— at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
 at AC-4 at 400 V rated value 	97 A
 at AC-5a up to 690 V rated value 	120 A
 at AC-5b up to 400 V rated value 	110 A
● at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	98 A
 up to 400 V for current peak value n=20 rated value 	98 A
 up to 500 V for current peak value n=20 rated value 	98 A
 up to 690 V for current peak value n=20 rated value 	98 A
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	65.3 A
 up to 400 V for current peak value n=30 rated value 	65.3 A
 up to 500 V for current peak value n=30 rated value 	65.3 A
 up to 690 V for current peak value n=30 rated value 	65.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	46 A
• at 690 V rated value	36 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	60 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
with 2 current paths in series at DC-1	
- at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 50 V rated value — at 110 V rated value	100 A
- at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
• with 3 current paths in series at DC-1	
— at 24 V rated value	100 A

— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	40 A
— at 60 V rated value	6 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 60 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 60 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	55 kW
• at AC-3	
— at 230 V rated value	30 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	90 kW
— at 1000 V rated value	37 kW
• at AC-3e	
— at 230 V rated value	30 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	90 kW
— at 1000 V rated value	37 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	24.3 kW
• at 690 V rated value	32.9 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	39 kVA
 up to 400 V for current peak value n=20 rated value 	67 kVA
 up to 500 V for current peak value n=20 rated value 	84 kVA
 up to 690 V for current peak value n=20 rated value 	117 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	26 kVA
 up to 400 V for current peak value n=30 rated value 	45.2 kVA
 up to 500 V for current peak value n=30 rated value 	56.5 kVA
 up to 690 V for current peak value n=30 rated value 	78 kVA
short-time withstand current in cold operating state up to	
40 °C	
• limited to 1 s switching at zero current maximum	1 960 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 5 s switching at zero current maximum	1 502 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 10 s switching at zero current maximum	1 095 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 30 s switching at zero current maximum	707 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	562 A; Use minimum cross-section acc. to AC-1 rated value

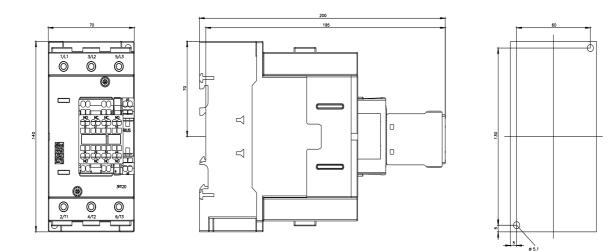
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control supply voltage at DC		
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locked-rotor current peak 6.5 A duration of locked-rotor current 150 ms holding current mean value 75 mA apparent pick-up power of magnet coil at AC - • at 50 Hz 151 VA • at 60 Hz 151 VA at 60 Hz 151 VA at 60 Hz 151 VA • at 70 mbm rated control supply voltage at DC 1.8 VA • at maximum rated control supply voltage at DC 1.8 VA • at minimum rated control supply voltage at DC 1.8 VA • at minimum rated control supply voltage at DC 3.1 VA - at 60 Hz 0.95	duration of inrush current peak	50 µs
duration of locked-rotor current 150 ms holding current mean value 75 mA apparent pick-up power of magnet coil at AC 151 VA • at 50 Hz 151 VA • at 60 Hz 151 VA • at 60 Hz 151 VA • at minimum rated control supply voltage at DC 1.8 VA • at minimum rated control supply voltage at DC 1.8 VA apparent holding power 1.8 VA • at minimum rated control supply voltage at AC - - at 60 Hz 3.1 VA - at 60 Hz 0.95 <	locked-rotor current mean value	3.2 A
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apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz apparent holding power • at minimum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at DC • at maximum rated control supply voltage at AC - at 50 Hz • at minimum rated control supply voltage at AC - at 60 Hz • at maximum rated control supply voltage at AC - at 60 Hz • at maximum rated control supply voltage at AC - at 60 Hz • at 60 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at 70 ms • at 60 Hz • at 70 ms •	duration of locked-rotor current	150 ms
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apparent holding power	• at 50 Hz	151 VA
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apparent holding powerImage: control supply voltage at AC- at 50 Hz3.1 VA- at 60 Hz3.1 VA- at 60 Hz3.1 VA- at 60 Hz3.1 VAapparent holding power of magnet coil at AC at 60 Hz3.1 VAat naxinum rated control supply voltage at AC at 60 Hz3.1 VAapparent holding power of magnet coil at AC at 50 Hz3.1 VAat 60 Hz3.1 VAat 60 Hz0.95i dt 0 Hz0.95colsing power of magnet coil at DC76 Wholding power of magnet coil at DC1.8 Wclosing delay at AC5070 ms- at AC3857 ms- at AC<	 at minimum rated control supply voltage at DC 	1.8 VA
• at minimum rated control supply voltage at AC	 at maximum rated control supply voltage at DC 	1.8 VA
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• at maximum rated control supply voltage at AC	— at 50 Hz	3.1 VA
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apparent holding power of magnet coil at AC	— at 50 Hz	3.1 VA
• at 50 Hz 3.1 VA • at 60 Hz 3.1 VA inductive power factor with the holding power of the coil 3.1 VA • at 50 Hz 0.95 • at 60 Hz 0.95 closing power of magnet coil at DC 76 W holding power of magnet coil at DC 1.8 W closing delay 50 70 ms • at AC 50 70 ms • at AC 50 70 ms • at AC 38 57 ms • at AC 38 57 ms • at AC 38 57 ms • at DC 38 57 ms	— at 60 Hz	3.1 VA
• at 60 Hz3.1 VAinductive power factor with the holding power of the coil	apparent holding power of magnet coil at AC	
inductive power factor with the holding power of the coil	● at 50 Hz	3.1 VA
• at 50 Hz 0.95 • at 60 Hz 0.95 closing power of magnet coil at DC 76 W holding power of magnet coil at DC 1.8 W closing delay 50 70 ms • at AC 50 70 ms • at DC 50 70 ms opening delay 50 70 ms • at AC 38 57 ms • at DC 38 57 ms	• at 60 Hz	3.1 VA
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holding power of magnet coil at DC 1.8 W closing delay - • at AC 50 70 ms • at DC 50 70 ms opening delay - • at AC 38 57 ms • at DC 38 57 ms		
closing delay - • at AC 50 70 ms • at DC 50 70 ms opening delay 50 70 ms • at AC 38 57 ms • at DC 50 ms		
• at AC 50 70 ms • at DC 50 70 ms opening delay 50 70 ms • at AC 38 57 ms • at DC 50 20 ms		1.8 W
• at DC 50 70 ms opening delay - • at AC 38 57 ms • at DC 38 57 ms • at DC 38 57 ms • at DC 10 20 ms control version of the switch operating mechanism Standard A1 - A2		
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control version of the switch operating mechanism Standard A1 - A2		
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Auxiliary circuit		Standard A1 - A2
	Auxiliary circuit	

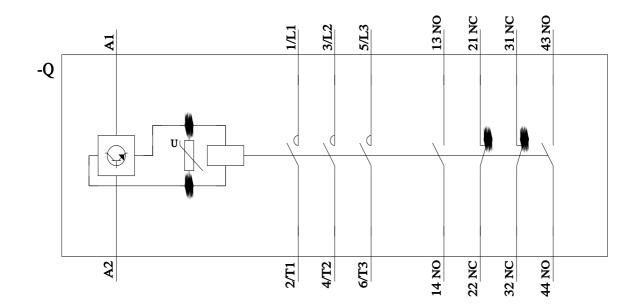
number of NC contacts for auxiliary contacts instantaneous contact	2
number of NO contacts for auxiliary contacts instantaneous contact	2
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	6 A
at 400 V rated value	3 A
at 500 V rated value	2 A
at 690 V rated value	1A
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	1A
at 600 V rated value	0.15 A
operational current at DC-13	0.10 A
at 24 V rated value	6 A
at 48 V rated value	2 A
at 48 V rated value at 60 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 	96 A
• at 600 V rated value	99 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	40 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	100 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: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
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 DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	140 mm
width	70 mm
depth	198 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm

		<u>KC</u>	EHC
General Product Approval			
Certificates/ approvals			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact	from the front	
protection class IP on the front according to IEC 60529	IP20		
61508			
T1 value for proof test interval or service life according to EC	20 a		
with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920	73 % 100 FIT		
with low demand rate according to SN 31920 with high demand rate according to SN 31920	40 % 73 %		
proportion of dangerous failures	40.9/		
B10 value with high demand rate according to SN 31920	1 000 000		
suitability for use safety-related switching OFF	Yes		
 positively driven operation according to IEC 60947-5-1 	No		
 mirror contact according to IEC 60947-4-1 	Yes		
product function			
Safety related data			
for auxiliary contacts	20 14		
for main contacts	10 2		
AWG number as coded connectable conductor cross section			
 for AWG cables for auxiliary contacts 	2x (20 16)		
 finely stranded without core end processing 	2x (0.5 2.5 mm²)		
- finely stranded with core end processing	2x (0.5 1.5 mm²)		
— solid or stranded	2x (0.5 2.5 mm²)		
for auxiliary contacts			
type of connectable conductor cross-sections			
 finely stranded with core end processing finely stranded without core end processing 	0.5 2.5 mm ²		
 finely stranded with core end processing 	0.5 2.5 mm ²		
solid or stranded	0.5 2.5 mm²		
finely stranded with core end processing connectable conductor cross-section for auxiliary contacts	2.0 00 11111		
	2.5 50 mm ²		
solid stranded	2.5 10 mm²		
connectable conductor cross-section for main contacts solid 	2.5 16 mm²		
finely stranded with core end processing	2x (2.5 35 mm²), 1x (2.5 5	ou mm²)	
type of connectable conductor cross-sections for main contacts	0. (0.5	(0, mam ²)	
of magnet coil	Spring-type terminals		
 at contactor for auxiliary contacts 	Spring-type terminals		
 for auxiliary and control circuit 	spring-loaded terminals		
• for main current circuit	screw-type terminals		
type of electrical connection			
Connections/ Terminals			
— at the side	10 mm		
— downwards	10 mm		
— forwards — upwards	20 mm 10 mm		
for live parts	00		
— downwards	10 mm		
— at the side	10 mm		
— upwards	10 mm		
— forwards	20 mm		
 for grounded parts 			

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Marine / Shipping					other
	Lloyds Kegister us	PRS	RINA	RARS	<u>Confirmation</u>
Railway	Dangerous Good	Environment			
Vibration and Shock	Transport Information	Environmental Con- firmations			
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