SIEMENS

Data sheet

3RT2047-1NB30



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: 1 NO + 1 NC, screw terminal, size: S3

product brand name SIRIUS product designation Power contactor general technical data S3 central technical data S3 product extension No • function module for communication No • auxilary switch Yes power loss [W] for rated value of the current - • at AC in hict operating state 23.7 W • at AC in hict operating state per pole 7.9 W • without load current share typical 1.8 W type of calculation of power loss depending on pole - • of auxilary circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 6100 V • of auxilary circuit rated value 6100 V • of auxilary circuit rated value 600 V • at AC 10.3g / 5 ms, 6, g / 10 ms • at AC 10.3g / 5 ms, 6, g / 10 ms • at AC 10.3g / 5 ms, 6, g / 10 ms • at AC 10.3g / 5 ms, 6, g / 10 ms • at AC 10.00000 • at AC		
product type designation 3RT2 General technical data	product brand name	SIRIUS
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Lead monoxide (lead oxide) - 1317-36-8 Weight 1.837 kg Ambient conditions 2 000 m ambient temperature 2 000 m	Substance Prohibitance (Date)	03/01/2017
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installation altitude at height above sea level maximum 2 000 m ambient temperature 2 000 m	Weight	1.837 kg
ambient temperature	Ambient conditions	
· · · · · · · · · · · · · · · · · · ·	installation altitude at height above sea level maximum	2 000 m
• during operation -25 +60 °C	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 %
invironmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	267 kg
global warming potential [CO2 eq] during manufacturing	9.35 kg
global warming potential [CO2 eq] during operation	259 kg
global warming potential [CO2 eq] after end of life	-1.55 kg
Jain 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 value 	130 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	130 A
— up to 690 V at ambient temperature 60 °C rated value	110 A
• at AC-3	440.4
— 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 • at AC-3e	30 A
	110 A
— at 400 V rated value — 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 mm²
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 — at 600 V rated value	0.6 A 0.4 A

— 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	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	
	24.2 MM
 at 400 V rated value at 690 V rated value 	24.3 kW 32.9 kW
	52.9 KVV
operating apparent power at AC-6a	30 kV/A
• 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

•••• (b) c 500 V for unner peak value n=03 rated value78 VA a or C b or C a or C b or C c or C<	short Solt short Solt </th <th></th> <th></th>		
40°C• Indied 10 is surbing at zero current maximum1.980 A: Use minimum cross-section a.c. to A.C.1 rated value• Indied 10 is surbing at zero current maximum1.980 A: Use minimum cross-section a.c. to A.C.1 rated value• Indied 10 is surbing at zero current maximum1.980 A: Use minimum cross-section a.c. to A.C.1 rated value• Indied 10 is surbing at zero current maximum1.980 A: Use minimum cross-section a.c. to A.C.1 rated value• Indied 10 is surbing at zero current maximum1.980 A: Use minimum cross-section a.c. to A.C.1 rated value• Indied 10 is surbing at zero current maximum1.980 A: Use minimum cross-section a.c. to A.C.1 rated value• Indied 11 is maximum1.990 I: In• Indied 11 is maximum2.90 I: In• Indied 11 is maxi	40 °C 5 • Initial to 1 s solubing at zeo current maximum 1 500 A. Use minimum cross-section acc. its AC-1 tailed value • Initial to 5 solubing at zeo current maximum 1 502 A. Use minimum cross-section acc. its AC-1 tailed value • Initial to 5 solubing at zeo current maximum 1 502 A. Use minimum cross-section acc. its AC-1 tailed value • Initial to 5 solubing at zeo current maximum 1 502 A. Use minimum cross-section acc. its AC-1 tailed value • Initial to 5 solubing frequency 1 500 1h • AC 1 500 1h • AC AC maximum 500 1h • At AC-1 maximum 500 1h • At AC-3 maximum 500 1h	• up to 690 V for current peak value n=30 rated value	78 kVA
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ended b03 exhibing at zero current maximum707 & Use minimum cross-section act. to AC-1 rated valuenol-bad switching frequency562 & Use minimum cross-section act. to AC-1 rated valuee. IA C1000 1/he. IA C1000 1/he. IA C1000 1/hof AC-2 maximum350 1/he. IA C-4 maximum350 1/he. IA C-4 maximum850 1/h<	• Note that we have a submit of 2 southing at 2 area current maximum207 A. Use minimum creas-section acc. to AC-1 rated valuenot-bad switching frequency1000 1 h• at DC1000 1 h• at DC1000 1 hoperating frequency50 1 h• at AC-1 maximum50 1 h• at AC-2 maximum50 1 h• at AC-2 maximum60 1 h• at AC-2 maximum20 33 V• at AC-2 maximum0.3 3 V• at BO 1 trade value20 33 V• at BO 1 trade value20 33 V• at BO 1 trade value0.8• at BO 1 trade value0.8 </td <td> limited to 5 s switching at zero current maximum </td> <td>1 502 A; Use minimum cross-section acc. to AC-1 rated value</td>	 limited to 5 s switching at zero current maximum 	1 502 A; Use minimum cross-section acc. to AC-1 rated value
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• at minimum rated control supply voltage at AC3.1 VA- at 50 Hz3.1 VA- at 60 Hz3.1 VA• at maximum rated control supply voltage at AC at 50 Hz3.1 VA- at 60 Hz3.1 VAapparent holding power of magnet coil at AC3.1 VA• at 50 Hz3.1 VA• at 60 Hz0.95• at 60 Hz0.95• at 60 Hz0.95	• at minimum rated control supply voltage at AC3.1 VA- at 50 Hz3.1 VA- at 60 Hz3.1 VA• at maximum rated control supply voltage at AC at 50 Hz3.1 VA- at 60 Hz3.1 VAapparent holding power of magnet coil at AC-• at 50 Hz3.1 VA• at 60 Hz3.1 VAinductive power factor with the holding power of the coil-• at 60 Hz0.95• at 60 Hz0.95• at 60 Hz1.8 Wclosing power of magnet coil at DC1.8 Wholding power of magnet coil at DC50 70 ms		
- at 50 Hz3.1 VA- at 60 Hz3.1 VA• at maximum rated control supply voltage at AC at 50 Hz3.1 VA- at 60 Hz3.1 VAapparent holding power of magnet coil at AC-• at 50 Hz3.1 VA• at 50 Hz3.1 VA• at 50 Hz3.1 VA• at 60 Hz3.1 VA• at 60 Hz0.95• at 60 Hz0.95• at 60 Hz0.95• at 60 Hz0.95• at 60 Hz0.95	- at 50 Hz3.1 VA- at 60 Hz3.1 VA• at maximum rated control supply voltage at AC at 50 Hz3.1 VA- at 60 Hz3.1 VAapparent holding power of magnet coil at AC-• at 60 Hz3.1 VA• at 60 Hz3.1 VA• at 60 Hz3.1 VA• at 60 Hz0.95• at 60 Hz0.95• at 60 Hz1.8 W• at 60 Hz1.8 W• at 60 Hz1.8 W• at 60 Hz50 70 ms		
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• at maximum rated control supply voltage at AC	• at maximum rated control supply voltage at AC		
at 50 Hz3.1 VA at 60 Hz3.1 VAapparent holding power of magnet coil at AC	- at 50 Hz 3.1 VA - at 60 Hz 3.1 VA 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 • at 60 Hz 0.1 VA • at 60 Hz 0.1 VA • at 50 Hz 0.95 • at 60 Hz 0.95 • at 60 Hz 0.95 • at 60 Hz 1.8 W holding power of magnet coil at DC 1.8 W • at AC 50 70 ms		0.1 VA
at 60 Hz3.1 VAapparent holding power of magnet coil at AC	at 60 Hz3.1 VAapparent holding power of magnet coil at AC.• at 50 Hz3.1 VA• at 60 Hz3.1 VAinductive power factor with the holding power of the coil.• at 50 Hz0.95• at 60 Hz0.95• at 60 Hz76 Wclosing power of magnet coil at DC1.8 Wholding power of magnet coil at DC50 70 ms		2.4.1/4
apparent holding power of magnet coil at AC	apparent holding power of magnet coil at AC		
• at 50 Hz3.1 VA• at 60 Hz3.1 VAinductive power factor with the holding power of the coil.1 VA• at 50 Hz0.95• at 60 Hz0.95closing power of magnet coil at DC76 W	• at 50 Hz3.1 VA• at 60 Hz3.1 VAinductive power factor with the holding power of the coil• at 50 Hz0.95• at 60 Hz0.95closing power of magnet coil at DC76 Wholding power of magnet coil at DC1.8 Wclosing delay50 70 ms		3.1 VA
• at 60 Hz3.1 VAinductive power factor with the holding power of the coil	• at 60 Hz3.1 VAinductive power factor with the holding power of the coil.• at 50 Hz0.95• at 60 Hz0.95closing power of magnet coil at DC76 Wholding power of magnet coil at DC1.8 Wclosing delay.• at AC50 70 ms		0.434
inductive power factor with the holding power of the coil 0.95 • at 50 Hz 0.95 • at 60 Hz 0.95 closing power of magnet coil at DC 76 W	inductive power factor with the holding power of the coil		
• at 50 Hz 0.95 • at 60 Hz 0.95 closing power of magnet coil at DC 76 W	• 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		3.1 VA
• at 60 Hz 0.95 closing power of magnet coil at DC 76 W	• at 60 Hz0.95closing power of magnet coil at DC76 Wholding power of magnet coil at DC1.8 Wclosing delay50 70 ms		
closing power of magnet coil at DC 76 W	closing power of magnet coil at DC 76 W holding power of magnet coil at DC 1.8 W closing delay 50 70 ms		
	holding power of magnet coil at DC 1.8 W closing delay 50 70 ms		
holding power of magnet coil at DC 18 W	closing delay • at AC 50 70 ms	closing power of magnet coil at DC	76 W
	• at AC 50 70 ms	holding power of magnet coil at DC	1.8 W
closing delay		closing delay	
• at AC 50 70 ms	50 70 mg	• at AC	50 70 ms
	• autor 50 / Ums	• at DC	50 70 ms

opening delay	
• at AC	38 57 ms
• at DC	38 57 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
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 40 V rated value	6 A
	3 A
at 110 V rated value	2 A
• at 125 V rated value	
• at 220 V rated value	1A
at 600 V rated value	0.15 A
operational 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 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 miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA
of the auxiliary circuit up to 230 V	
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
- with type of assignment 2 required	KA) 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	<u>30. 107 (000 7, 1107)</u>
instanation/ mounting/ unitensions	
mounting position	+/ 190° rotation possible on vertical mounting surfaces can be tilted for used and
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method side-by-side mounting	backward by +/- 22.5° on vertical mounting surface Yes
	backward by +/- 22.5° on vertical mounting surface

width	70 mm
depth	152 mm
required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
– downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	20 mm
— upwards	10 mm
— 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 circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
of magnet coil	Screw-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)
for AWG cables 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 mm ²
 finely stranded with core end processing 	2.5 50 mm ²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
- finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
for main contacts	10 2
 for auxiliary contacts 	20 14
afety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
• positively driven operation according to IEC 60947-5-1	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
• with high demand rate according to SN 31920	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
MTBF	75 a
ISO 13849	

	cording to ISO 13849-2	necessary Yes			
IEC 61508		-	٨		
	cording to IEC 61508-2	Туре	A		
Electrical Safety		150 00500			
	the front according to			6 H 6 I	
	ne front according to IE	C 60529 finge	r-safe, for vertical contact	trom the front	
Approvals Certificates					
General Product App	roval	1.112	Confirmation	-	KC
	CE EG-Konf.	UK CA	Commation		
General Product Approval	EMV	Test Certificates		Marine / Shipping	
EHC	RCM	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	
Marine / Shipping				other	Railway
Marine / Shipping	PRS	RINA	RMRS	other Confirmation	Railway Special Test Certific- ate
Lloyd's Register	PRS	RINA	RMRS		Special Test Certific-
Lloyd's Register urs	Environment	Environmental Con- firmations	RMRS		Special Test Certific-
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1NB30

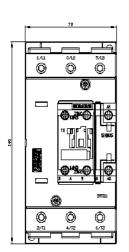
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

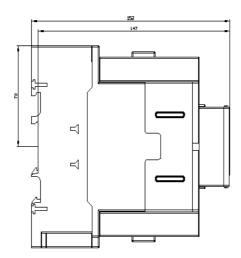
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1NB30&lang=en

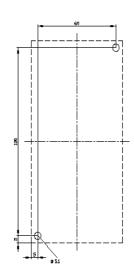
Characteristic: Tripping characteristics, I2t, Let-through current

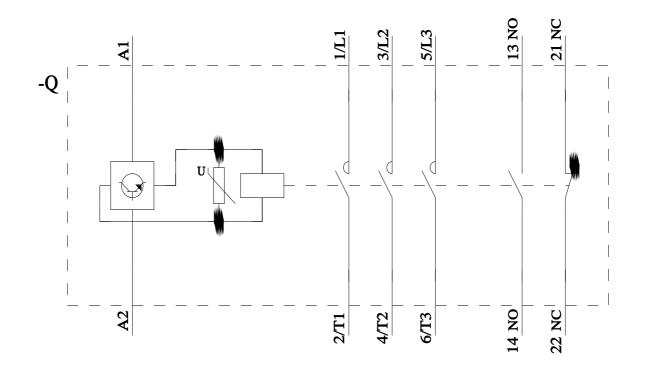
https://support.indu mens.com/cs/w

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-1NB30&objecttype=14&gridview=view1









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