## SIEMENS

## Data sheet

## 3RT2047-1AF00



Contactor, AC-3, 55 kW/400 V 1 NO+1 NC, 110 V AC 50 Hz 3-pole, 3 NO, Size S3 Screw terminal

product brand name	SIRIUS			
product designation	Power contactor			
product type designation	3RT2			
General technical data				
size of contactor	S3			
product extension				
<ul> <li>function module for communication</li> </ul>	No			
auxiliary switch	Yes			
power loss [W] for rated value of the current at AC in hot operating state	23.7 W			
• per pole	7.9 W			
power loss [W] for rated value of the current without load current share typical	19 W			
insulation voltage				
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V			
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V			
surge voltage resistance				
<ul> <li>of main circuit rated value</li> </ul>	8 kV			
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV			
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	690 V			
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)				
<ul> <li>of contactor typical</li> </ul>	10 000 000			
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000			
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000			
reference code acc. to IEC 81346-2	Q			
Substance Prohibitance (Date)	01.03.2017			
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 acc. to IEC 60068-2-30	95 %			

maximum	
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
operational current	
<ul> <li>at AC-1 at 400 V at ambient temperature 40 °C</li> </ul>	130 A
rated value	
● 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	
— 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
<ul> <li>at AC-5a up to 690 V rated value</li> </ul>	120 A
• at AC-5b up to 400 V rated value	110 A
• at AC-6a	
<ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>	98 A
<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	98 A
<ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>	98 A
<ul> <li>— up to 690 V for current peak value n=20 rated value</li> <li>at AC-6a</li> </ul>	98 A
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	65.3 A
<ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul>	65.3 A
<ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	65.3 A
<ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>	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 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
<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
— at 24 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
<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 24 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				
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>					
— 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				
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>					
— 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				
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>					
— 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	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				
	57 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 kV·A				
• up to 400 V for current peak value n=20 rated value	67 kV·A				
• up to 500 V for current peak value n=20 rated value	84 kV·A				
• up to 690 V for current peak value n=20 rated value	117 kV·A				
operating apparent power at AC-6a					
• up to 230 V for current peak value n=30 rated value	26 kV·A				
• up to 400 V for current peak value n=30 rated value	45.2 kV·A				
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> </ul>	56.5 kV·A				
<ul> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	78 kV·A				
short-time withstand current in cold operating state					
up to 40 °C					
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	1 960 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	1 502 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	1 095 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	707 A; Use minimum cross-section acc. to AC-1 rated value				
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	562 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	350 1/h				
• at AC-3 maximum	850 1/h				
• at AC-4 maximum	200 1/h				
Control circuit/ Control					
type of voltage of the control supply voltage	AC				
control supply voltage at AC	4014				
at 50 Hz rated value	110 V				
operating range factor control supply voltage rated					
value of magnet coil at AC					

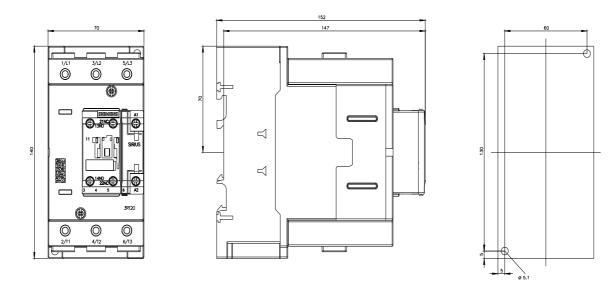
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	296 V·A
inductive power factor with closing power of the coil	
• at 50 Hz	0.61
apparent holding power of magnet coil at AC	
• at 50 Hz	19 V·A
inductive power factor with the holding power of the	
coil	0.00
• at 50 Hz	0.38
closing delay	40 50
• at AC	13 50 ms
opening delay • at AC	10 21 ms
	10 20 ms
arcing time	
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	1
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	<b>A</b>
• 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	40.4
• 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 0 45 A
at 600 V rated value	0.15 A
operational current at DC-13	10.4
at 24 V rated value	10 A
at 48 V rated value	2 A 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 1 faulty switching per 100 million (17 V, 1 mA)
contact reliability of auxiliary contacts	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	96 A
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul>	96 A 99 A
vielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
- at 200/208 V rated value	30 hp
— at 220/200 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	
acargii oi the luae illik	

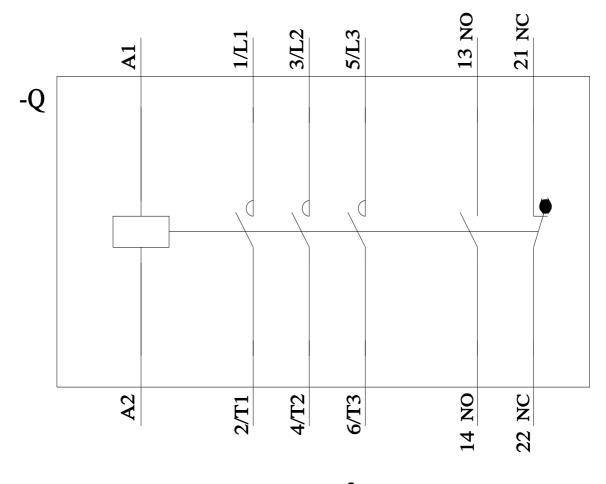
<ul> <li>for short-circuit protection of the main circuit</li> </ul>				
with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A			
- with type of assignment 2 required	(415 V, 80 kA)			
	gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (415V,80kA)			
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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 standard mounting rail according to DIN EN 60715			
<ul> <li>side-by-side mounting</li> </ul>	Yes			
height	140 mm			
width	70 mm			
depth	152 mm			
required spacing				
<ul> <li>with side-by-side mounting</li> </ul>				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
<ul> <li>for grounded parts</li> </ul>				
— forwards	20 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm			
<ul> <li>for live parts</li> </ul>				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	10 mm			
Connections/ Terminals	_			
type of electrical connection				
<ul> <li>for main current circuit</li> </ul>	screw-type terminals			
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals			
<ul> <li>at contactor for auxiliary contacts</li> </ul>	Screw-type terminals			
<ul> <li>of magnet coil</li> </ul>	Screw-type terminals			
type of connectable conductor cross-sections				
<ul> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> </ul>				
	2x (2.5 35 mm²), 1x (2.5 50 mm²)			
for main contacts	2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2)			
<ul> <li>for main contacts</li> <li>finely stranded with core end processing</li> </ul>				
for main contacts         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main				
for main contacts         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main         contacts	2x (10 1/0), 1x (10 2)			
for main contacts         — finely stranded with core end processing         • at AWG cables for main contacts         connectable conductor cross-section for main         contacts         • solid	2x (10 1/0), 1x (10 2) 2.5 16 mm <sup>2</sup>			
<ul> <li>for main contacts         <ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> </ul>	2x (10 1/0), 1x (10 2) 2.5 16 mm <sup>2</sup> 6 70 mm <sup>2</sup>			
<ul> <li>for main contacts         <ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts</li> </ul>	2x (10 1/0), 1x (10 2) 2.5 16 mm <sup>2</sup> 6 70 mm <sup>2</sup> 2.5 50 mm <sup>2</sup>			
for main 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         connectable conductor cross-section for auxiliary         contacts             solid or stranded	2x (10 1/0), 1x (10 2) 2.5 16 mm <sup>2</sup> 6 70 mm <sup>2</sup> 2.5 50 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>			
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<ul> <li>for main contacts         <ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>a solid or stranded</li> <li>for auxiliary contacts</li> <li>a solid or stranded</li> <li>for auxiliary contacts</li> <li>a solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> </ul> </li> </ul>	2x (10 1/0), 1x (10 2) 2.5 16 mm <sup>2</sup> 6 70 mm <sup>2</sup> 2.5 50 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 10 2			
<ul> <li>for main contacts         <ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>a solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li></ul>	2x (10 1/0), 1x (10 2) 2.5 16 mm <sup>2</sup> 6 70 mm <sup>2</sup> 2.5 50 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14)			
<ul> <li>for main contacts         <ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>a solid or stranded</li> <li>for auxiliary contacts</li> <li>a solid or stranded</li> <li>for auxiliary contacts</li> <li>a solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> </ul> </li> </ul>	2x (10 1/0), 1x (10 2) 2.5 16 mm <sup>2</sup> 6 70 mm <sup>2</sup> 2.5 50 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (20 16), 2x (18 14) 10 2			

proportion of dange			10.01			
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>		40 %				
with high demand rate acc. to SN 31920		73 %				
failure rate [FIT] with low demand rate acc. to SN 31920		100 FIT				
T1 value for proof to IEC 61508	est interval or service I	ife acc. to	20 y			
protection class IP on the front acc. to IEC 60529		IP20				
touch protection on	the front acc. to IEC 6	0529	finger-safe, f	or vertical co	ontact from the front	
suitability for use						
<ul> <li>safety-related switching on</li> </ul>		Yes				
safety-related switching OFF		Yes				
Certificates/ approva	ls					
General Product A	pproval					
(SPE		<u>Confirmatic</u>	<u>on</u>	4	<u>KC</u>	EAC
CSA	Functional			UL		
EMC	Safety/Safety of Machinery	Declaration o	of Conformity		Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>	<u>UK Declaratio</u> <u>Conformit</u>		CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate
Marine / Shipping						
ABS		Llovd's Register uis		PRS	RINA	RMRS
other	Railway	Dangerous G	iood			
Confirmation	Vibration and Shock	<u>Transport Info</u> <u>tion</u>	<u>rma-</u>			
Further information	ownloadcenter (Catalog	as Brochuras	<u> </u>			
https://www.siemens		yo, Diochaices,.	,			
Industry Mall (Onlin						
	siemens.com/mall/en/en/	Catalog/product	?mlfb=3RT204	<u>17-1AF00</u>		
Cax online generate	or ation.siemens.com/WW/0	CAXorder/defaul	lt asnx?lana=e	n&mlfb=3RT	2047-1AF00	
Service&Support (M	/anuals, Certificates, C	haracteristics,	FAQs,)		2011 11 100	
	try siemens com/cs/ww/e	en/ps/3RT2047-	1AF00			
https://support.indust	-					,
Image database (pr	-	ension drawings	s, 3D models,		uit diagrams, EPLAN ma	cros,)

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AF00/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-1AF00&objecttype=14&gridview=view1





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