SIEMENS

Data sheet

3RT1066-6AU36



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 240-277 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
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 	66 W
 at AC in hot operating state per pole 	22 W
 without load current share typical 	7.4 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 	500 V
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 according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
● at DC	13,4g / 5 ms, 6,5g / 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)	05/01/2012
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 	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	330 A
rated value	
• at AC-1	330 A
— up to 690 V at ambient temperature 40 °C rated value	550 A
— up to 690 V at ambient temperature 60 °C	300 A
rated value	
— up to 1000 V at ambient temperature 40 °C	150 A
rated value	
— up to 1000 V at ambient temperature 60 °C rated value	150 A
• at AC-3	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	280 A
— at 1000 V rated value	95 A
• at AC-3e	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 1000 V rated value	95 A
• at AC-4 at 400 V rated value	280 A
• at AC-5a up to 690 V rated value	290 A
 at AC-5b up to 400 V rated value at AC-6a 	249 A
 at AC-ba — up to 230 V for current peak value n=20 rated 	292 A
value	232 A
— up to 400 V for current peak value n=20 rated	292 A
value	
 — up to 500 V for current peak value n=20 rated value 	292 A
— up to 690 V for current peak value n=20 rated	280 A
value	200 A
 — up to 1000 V for current peak value n=20 rated 	95 A
value	
• at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	195 A
— up to 400 V for current peak value n=30 rated	195 A
value	
— up to 500 V for current peak value n=30 rated	195 A
value — up to 690 V for current peak value n=30 rated	195 A
value	155 A
— up to 1000 V for current peak value n=30 rated	95 A
value	
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating	
cycles at AC-4	
 at 400 V rated value 	125 A
 at 690 V rated value 	115 A
operational current	
• at 1 current path at DC-1	200.4
— at 24 V rated value	300 A
— at 60 V rated value — at 110 V rated value	300 A 33 A
— at 220 V rated value	33 A 3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
with 2 current naths in series at DC-1	

Ι

— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	300 A
— at 60 V rated value	11 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
 with 2 current paths in series at DC-3 at DC-5 	0.120 A
- at 24 V rated value	300 A
— at 60 V rated value	300 A 300 A
— at 110 V rated value	300 A 300 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
• with 3 current paths in series at DC-3 at DC-5	000 4
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	001114
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	001111
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	71 kW
• at 690 V rated value	112 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	110 000 kVA
 up to 200 V for current peak value n=20 rated value 	200 000 VA
 up to 500 V for current peak value n=20 rated value 	250 000 VA
• up to 690 V for current peak value n=20 rated value	330 000 VA
• up to 1000 V for current peak value n=20 rated	160 000 VA
value	100 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	70 000 VA
 up to 200 V for current peak value n=30 rated value 	130 000 VA
 up to 500 V for current peak value n=30 rated value 	160 000 VA
 up to 500 v for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	230 000 VA
 up to 000 V for current peak value n=30 rated up to 1000 V for current peak value n=30 rated 	160 000 VA
value	100 000 VA
short-time withstand current in cold operating state	
up to 40 °C	

 limited to 1 s switching at zero current maximum 	5 524 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	4 579 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	3 153 A; Use minimum cross-section acc. to AC-1 rated value
-	
 limited to 30 s switching at zero current maximum 	1 883 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	1 445 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
	2 000 1/11
operating frequency	
 at AC-1 maximum 	750 1/h
 at AC-2 maximum 	250 1/h
• at AC-3 maximum	500 1/h
• at AC-3e maximum	500 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	240 277 \/
	240 277 V
 at 60 Hz rated value 	240 277 V
control supply voltage at DC	
 rated value 	240 277 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
initial value	0.8
	1.1
• full-scale value	1.1
operating range factor control supply voltage rated	
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
	500.1/4
• at 50 Hz	590 VA
• at 60 Hz	590 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.9
• at 60 Hz	0.9
	0.0
apparent holding power of magnet coil at AC	
• at 50 Hz	6.7 VA
• at 60 Hz	6.7 VA
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	650 W
holding power of magnet coil at DC	7.4 W
closing delay	
• at AC	30 95 ms
● at DC	30 95 ms
opening delay	
• at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contacts	2
	0
number of NO contacts for auxiliary contacts	2
instantaneous contact	
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	1 A

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	1 A
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	302 A
 at 400 V rated value at 600 V rated value 	289 A
yielded mechanical performance [hp] • for 3-phase AC motor	
tor 3-phase AC motor — at 200/208 V rated value	100 bp
— at 200/208 V rated value — at 220/230 V rated value	100 hp
— at 220/230 V rated value — at 460/480 V rated value	125 hp
— at 460/480 V rated value — at 575/600 V rated value	250 hp 300 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
— with type of coordination 1 required	gG: 500 A (690 V, 100 kA)
 — with type of assignment 2 required 	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
 side-by-side mounting 	
,	Yes
height	Yes 210 mm
height	210 mm
height width	210 mm 145 mm
height width depth	210 mm 145 mm
height width depth required spacing	210 mm 145 mm
height width depth required spacing • with side-by-side mounting	210 mm 145 mm 202 mm
height width depth required spacing • with side-by-side mounting — forwards	210 mm 145 mm 202 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	210 mm 145 mm 202 mm 20 mm 10 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — upwards — downwards — at the side • for grounded parts	210 mm 145 mm 202 mm 10 mm 10 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — forwards — upwards — upwards — upwards	210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm 10 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — upwards — upwards — at the side	210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — upwards — upwards	210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm 10 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — upwards — a the side • for grounded parts — forwards — oforwards — upwards — at the side — oforwards — other side — other side	210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — upwards — a the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — for wards — at the side — for wards — at the side — for live parts — forwards	210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 20 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — upwards — a the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — for live parts — forwards • for live parts — forwards • for live parts — upwards • for upwards • for live parts — forwards — upwards	210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards • for live parts — forwards — downwards • downwards • for live parts — forwards — downwards • for wards — downwards	210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm 10 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards • for live parts — forwards — upwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards	210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards • for live parts — forwards — downwards • downwards • for live parts — forwards — downwards • for wards — downwards • for wards — downwards	210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm 10 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards • for live parts — forwards — upwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards	210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm 10 mm
height width depth required spacing • with side-by-side mounting — forwards — upwards — upwards — a the side • for grounded parts — forwards — at the side — downwards • for live parts — forwards • for live parts — forwards • at the side — downwards • at the side — downwards • for live parts — forwards — upwards — at the side — downwards — at the side	210 mm 145 mm 202 mm 10 mm 10 mm 0 mm 20 mm 10 mm

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type of connectable conductor cross-sector. • solid • solid of snakliary contacts • soukliary contacts • solid of snak • positively driven operation according to IEC 60947-41 • total total contact from the front according to IEC 60947-41 • total total contact from on the front according to IEC 60947-41 • total total contact from on the front according to IEC 60947-41 • total contact from the front according to IEC 60947-41 • total contact from on ton ton ton ton ton ton ton ton ton							
• for auxiliary contacts • solid or stranded • solid or stranded • for auxiliary contacts • or auxiliary contacts • for auxiliary contact from the front with box terminal/cover • functional for the front according to IEC 60529 • auxiliary contact • for auxiliary contact • for auxiliary contact • for auxiliary contact • for auxiliary contact from the front with box terminal/cover • functional for auxiliary contact • for auxiliary contact			-				
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Safety related data product function micro contact according to IEC 60047-4-1 positively driven operation according to SN 31920 T value with high demand rate according to SN 31920 T value for proof test interval or service life according to IEC 60529 protection class IP on the front according to IEC 60529 suitability for use							
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11 value for proof test interval or service life according to IEC 60529 20 a interval P00; IP20 with box terminal/cover isadely-related switching OFF Yes Confirmation Confirmation <td col<="" td=""><td></td><td>lemand rate according t</td><td>o SN 31920</td><td>1 000 000</td><td></td><td></td></td>	<td></td> <td>lemand rate according t</td> <td>o SN 31920</td> <td>1 000 000</td> <td></td> <td></td>		lemand rate according t	o SN 31920	1 000 000		
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60529 finger-safe, for vertical contact from the front with box terminal/cover 9: a safety-related switching OFF Yes Certificates/ approvals General Product Approvals General Product Approvals Certificates/ approvals General Product Approvals General Product Approvals Machinery Declaration of Conformity Test Certificates Operation of Conformity							
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safety-related switching OFF Yes Cortificates/ approvals Confirmation		the front according to	DIEC 60529	finger-safe, for vertical contact from the front with hox terminal/cover			
e safety-related switching OFF Yes Certificates/ approvals General Product Approvals Confirmation Ccc Ccc Ccc Ccc Ccc Ccc Ccc Ccc Ccc Cc							
General Product Approval Image: Confirmation		witching OFF		Yes			
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Further information Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10							
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Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6AU36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AU36

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1066-6AU36&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AU36/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6AU36&objecttype=14&gridview=view1









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