SIEMENS

Data sheet 3RT1066-6NB36



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 21-27, 3 V PLC input 24 V DC 3-pole, auxiliary contacts 2 NO + 2 NC drive: electronic 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 	3.4 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 rated value 	330 A		
• at AC-1			
 up to 690 V at ambient temperature 40 °C rated value 	330 A		
 up to 690 V at ambient temperature 60 °C rated value 	300 A		
 up to 1000 V at ambient temperature 40 °C rated value 	150 A		
 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 AC-3e — at 400 V rated value	300 A		
— at 400 V rated value — at 500 V rated value	300 A 300 A		
	95 A		
— at 1000 V rated value			
at AC-4 at 400 V rated value at AC-5 a value (CO) V rated value	280 A		
at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value	290 A		
at AC-5b up to 400 V rated value	249 A		
at AC-6a up to 230 V for current peak value n=20 rated	292 A		
value — 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 value	280 A		
up to 1000 V for current peak value n=20 rated value	95 A		
• at AC-6a			
— up to 230 V for current peak value n=30 rated value value	195 A		
— up to 400 V for current peak value n=30 rated value	195 A		
up to 500 V for current peak value n=30 rated value	195 A		
— up to 690 V for current peak value n=30 rated value	195 A		
 up to 1000 V for current peak value n=30 rated value 	95 A		
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			
— at 24 V rated value	300 A		
— at 60 V rated value	300 A		
— at 110 V rated value	33 A		
— at 220 V rated value	3.8 A		
— at 440 V rated value	0.9 A		
— at 600 V rated value	0.6 A		
with 2 current paths in series at DC-1			
- with 2 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	4 A
— at 600 V rated value	2 A
with 3 current paths in series at DC-1	000 A
— 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• at 1 current path at DC-3 at DC-5	5.2 A
— 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	
— 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	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 	
— 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	
— 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 — at 1000 V rated value	250 kW 132 kW
at AC-3e	IJZ KVV
— 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 400 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 value 	160 000 VA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	70 000 VA
 up to 400 V for current peak value n=30 rated value 	130 000 VA
up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value	160 000 VA
 up to 690 V for current peak value n=30 rated value 	230 000 VA
up to 1000 V for current peak value n=30 rated recorded value n=30 rated	160 000 VA
value	
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	4.000.47				
• at AC	1 000 1/h				
• at DC	1 000 1/h				
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	21 27.3 V				
at 60 Hz rated value	21 27.3 V				
control supply voltage at DC	04 07.0 \				
• rated value	21 27.3 V				
type of PLC-control input according to IEC 60947-1	Type 2				
consumed current at PLC-control input according to IEC 60947-1 maximum	20 mA				
voltage at PLC-control input rated value	24 V				
operating range factor of the voltage at PLC-control	0.8 1.1				
input	0.0 1.1				
operating range factor control supply voltage rated					
value of magnet coil at DC					
initial value	0.8				
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					
design of the surge suppressor	0.8 1.1 with varistor				
apparent pick-up power of magnet coil at AC	With Valistoi				
• at 50 Hz	530 VA				
• at 60 Hz	530 VA				
inductive power factor with closing power of the coil	000 V/1				
• at 50 Hz	0.8				
• at 60 Hz	0.8				
apparent holding power of magnet coil at AC					
• at 50 Hz	8.5 VA				
● at 60 Hz	8.5 VA				
inductive power factor with the holding power of the					
coil					
• at 50 Hz	0.4				
• at 60 Hz	0.4				
closing power of magnet coil at DC	580 W				
holding power of magnet coil at DC	3.4 W				
closing delay	45 00				
• at AC	45 80 ms				
• at DC	45 80 ms				
opening delay	00 100 mg				
• at AC	80 100 ms 80 100 ms				
• at DC	80 100 ms 10 15 ms				
arcing time control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)				
	F LO-IIV OF Standard AT - AZ (adjustable)				
Auxiliary circuit					
number of NC contacts for auxiliary contacts	2				
instantaneous contact 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 600 V rated value 	289 A			
yielded mechanical performance [hp]				
 for 3-phase AC motor 				
 at 200/208 V rated value 	100 hp			
 at 220/230 V rated value 	125 hp			
 — at 460/480 V rated value 	250 hp			
 at 575/600 V rated value 	300 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
contact rating of auxiliary contacts according to UL				
contact rating of auxiliary contacts according to UL Short-circuit protection				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link				
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	A600 / Q600			
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required	A600 / Q600 gG: 500 A (690 V, 100 kA)			
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch	gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415			
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	GG: 500 A (690 V, 100 kA) GG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)			
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)			
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required	gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA)			
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing			
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contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — if orwards — upwards — at the side • for grounded parts — at the side — downwards — at the side — downwards • for live parts — forwards	gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 0 mm 10 mm			
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- at the side 10 mm **Connections/ Terminals** type of electrical connection • for main current circuit Connection bar • for auxiliary and control circuit screw-type terminals · at contactor for auxiliary contacts Screw-type terminals · of magnet coil Screw-type terminals width of connection bar 25 mm thickness of connection bar 6 mm diameter of holes 11 mm number of holes 1 connectable conductor cross-section for main contacts stranded 70 ... 240 mm² connectable conductor cross-section for auxiliary contacts solid or stranded 0.5 ... 4 mm² • finely stranded with core end processing 0.5 ... 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²) - solid or stranded 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²) - finely stranded with core end processing 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) • at AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14), 1x 12 AWG number as coded connectable conductor cross section • for auxiliary contacts 18 ... 14 Safety related data

product function

• mirror contact according to IEC 60947-4-1

• positively driven operation according to IEC 60947-5-1

B10 value with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

safety-related switching OFF

Yes

No

1 000 000 20 a

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with box terminal/cover

Yes

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

Marine / Shipping

other













other			Railway	
Confirmation	Confirmation	<u>Miscellaneous</u>	Vibration and Shock	Special Test Certificate

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1066-6NB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6NB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6NB36

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

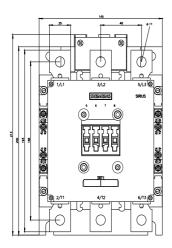
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1066-6NB36&lang=en

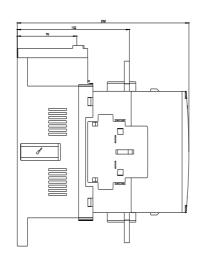
Characteristic: Tripping characteristics, I2t, Let-through current

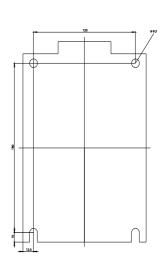
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6NB36/char

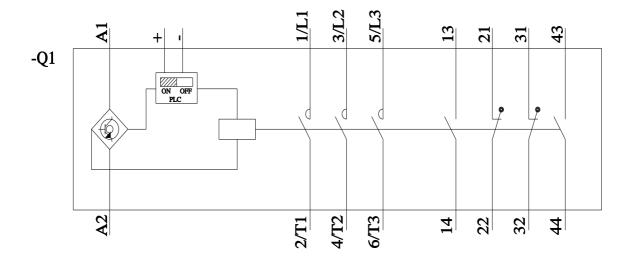
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6NB36&objecttype=14&gridview=view1









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