SIEMENS

3RT1066-6AV36 **Data sheet**



power contactor, AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC operation 380-420 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S10 busbar connections drive: conventional screw terminal

product designation product type designation eneral technical data	Power contactor 3RT1	
	3RT1	
eneral technical data	3RT1	
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 (switching 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	
mbient 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	95 %
maximum	
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	4.000 \/
at AC-3 rated value maximum	1 000 V
at AC-3e rated value maximum operational current	1 000 V
 at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 	330 A
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	330 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ 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	200 A
— at 400 V rated value— at 500 V rated value	300 A 300 A
— at 500 V rated value — at 690 V rated value	280 A
— at 1000 V rated value	95 A
• at AC-3e	30 A
— 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
 up to 230 V for current peak value n=20 rated value 	292 A
— up to 400 V for current peak value n=20 rated value	292 A
— 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 valueup to 1000 V for current peak value n=20 rated	280 A 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 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 minimum cross-section in main circuit at maximum AC-1	95 A
rated value 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 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	
— at 24 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 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	000 A
— at 24 V rated value	300 A
— at 110 V rated value	3 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 reted value.	300 A
— at 24 V rated value — 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	0.57 A
— at 24 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	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— 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 	160 000 VA
value	
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 	160 000 VA

type of voltage of the control supply voltage at AC AC/DC control supply voltage at AC 380 420 V e at 50 Hz rated value 380 420 V control supply voltage at DC 380 420 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 initial value 0.8 initial value 0.8 operating range factor control supply voltage rated value of magnet coil at AC 0.8 1.1 e at 50 Hz 0.8 1.1 e at 60 Hz 0.8 1.1 e at 60 Hz 0.9 1.1 e at 50 Hz 590 VA at 80 Hz 590 VA inductive power factor with closing power of the coil 0.9 e at 50 Hz 0.9 at 80 Hz 6.7 VA at 80 Hz 6.7 VA e at 60 Hz 0.9 apparent holding power of magnet coil at AC 6.7 VA e at 50 Hz 6.7 VA e at 60 Hz 0.9 old 60 Hz 0.9 closing power of magnet coil at DC 6.7 VA old 60 Hg 0.9		
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no-load switching frequency	_	
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Section Sect		
		2 000 1/h
■ at AC-2 maximum	operating frequency	
• at AC-3 maximum	at AC-1 maximum	750 1/h
	at AC-2 maximum	250 1/h
• at AC-4 maximum Control circuit/ Control Type of votage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value • full-scale value • full-scale value • at 50 Hz • at 50 Hz • at 60 Hz •	 at AC-3 maximum 	500 1/h
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at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 6.7 VA at 60 Hz 6.7 VA inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.9 at 60 Hz 0.9 closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC opening delay at AC at DC at DC at AC at	• at 60 Hz	590 VA
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Auxiliary circuit number of NC contacts for auxiliary contacts 2	arcing time	10 15 ms
number of NC contacts for auxiliary contacts 2	control version of the switch operating mechanism	Standard A1 - A2
	Auxiliary circuit	
	number of NC contacts for auxiliary contacts	2

number of NO contacts for auxiliary contacts	2	
instantaneous contact	40.4	
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	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	
at 600 V rated value	0.15 A	
operational current at DC-13	40.4	
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)	
JL/CSA ratings		
full-load current (FLA) for 3-phase AC motor	200 4	
at 480 V rated value	302 A	
at 600 V rated value	289 A	
yielded mechanical performance [hp]		
• for 3-phase AC motor	400 !	
— 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	
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 coordination is required with type of assignment 2 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	
— with type of assignment 2 required	gg: 400 A (690 V, 100 kA), alvi: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)	
• for short-circuit protection of the auxiliary switch	gG: 10 A (500 V, 1 kA)	
required		
nstallation/ 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	210 mm	
width	145 mm	
	202 mm	
depth		
required spacing		
required spacing • with side-by-side mounting		
required spacing • with side-by-side mounting — forwards	20 mm	
required spacing • with side-by-side mounting — forwards — upwards	20 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards	20 mm 10 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	20 mm 10 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	20 mm 10 mm 10 mm 0 mm	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	20 mm 10 mm 10 mm	

	40	
— 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	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	
type of connectable conductor cross-sections		
at AWG cables for main contacts	2/0 500 kcmil	
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 	Yes	
 positively driven operation according to IEC 60947- 5-1 	No	
B10 value with high demand rate according to SN 31920	1 000 000	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover	
suitability for use		
safety-related switching OFF	Yes	
Certificates/ approvals		
General Product Approval		

General Product Approval



Confirmation





<u>KC</u>



Functional EMC Safety/Safety of Declaration of Conformity Machinery	Test Certificates
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Type Examination Certificate





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

Type Test Certificates/Test Report

Marine / Shipping

other











Miscellaneous

other Railway

Confirmation Confirmation **Miscellaneous Special Test Certific-**<u>ate</u>

Further information

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=3RT1066-6AV36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6AV36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AV36

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1066-6AV36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AV36/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6AV36&objecttype=14&gridview=view1

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