SIEMENS

Data sheet

3RT1065-6AP36-3PA0



power contactor, AC-3e/AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC Uc: 220-240 V 3-pole, auxiliary contacts 2 NO + 2 NC permanently mounted 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 	54 W
 at AC in hot operating state per pole 	18 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
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 $^{\circ}\text{C}$ 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	
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 690 V rated value	265 A
— at 1000 V rated value	95 A
• at AC-3e	
— at 400 V rated value	265 A
— at 500 V rated value	265 A
— at 1000 V rated value	95 A
 at AC-4 at 400 V rated value 	230 A
• at AC-5a up to 690 V rated value	290 A
at AC-5b up to 400 V rated value	219 A
• at AC-6a	
up to 230 V for current peak value n=20 rated value	265 A
up to 400 V for current peak value n=20 rated value	265 A
 up to 500 V for current peak value n=20 rated value 	265 A
 up to 690 V for current peak value n=20 rated value 	265 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 	184 A
— up to 400 V for current peak value n=30 rated value	184 A
 up to 500 V for current peak value n=30 rated value 	184 A
 up to 690 V for current peak value n=30 rated value 	184 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	117 A
at 690 V rated value	105 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 reted value.	200 A
— at 24 V rated value — at 110 V rated value	300 A 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	5.2 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 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 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	400 111/
at AC-2 at 400 V rated value	132 kW
• at AC-3	75 kW
— at 230 V rated value — at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— at 230 V rated value	75 kW
— at 400 V rated value	132 kW
— at 500 V rated value	160 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles	
at AC-4	
at 400 V rated value	66 kW
at 690 V rated value	102 kW
operating apparent power at AC-6a	400,000 11/4
up to 230 V for current peak value n=20 rated value	100 000 kVA
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value	180 000 VA
• up to 500 V for current peak value n=20 rated value	220 000 VA
 up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated 	310 000 VA 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 400 V for current peak value n=30 rated value	120 000 VA
 up to 500 V for current peak value n=30 rated value 	150 000 VA
• up to 690 V for current peak value n=30 rated value	220 000 VA
• up to 1000 V for current peak value n=30 rated	160 000 VA
value short-time withstand current in cold operating state	
up to 40 °C	4 990 At Lloo minimum gross section and to AC 4 retailer
limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum	4 880 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	4 045 A; Use minimum cross-section acc. to AC-1 rated value 2 785 A; Use minimum cross-section acc. to AC-1 rated value
Ilmited to 10's switching at zero current maximum Ilmited to 30's switching at zero current maximum	1 664 A; Use minimum cross-section acc. to AC-1 rated value
- innica to 50 5 Switching at 2510 Culterit maximulii	1 00 171, Ode minimum cross-section acc. to AC-1 fated value

limited to CO - mitabine at a second manifestor	4.070 A. H minimum and a satisfactor to A.O. 4 and a declar
Iimited to 60 s switching at zero current maximum	1 276 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	0.000.4/1-
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	000.4%
• at AC-1 maximum	800 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	220 240 V
 at 60 Hz rated value 	220 240 V
control supply voltage at DC	
rated value	220 240 V
operating range factor control supply voltage rated	
value of magnet coil at DC	0.0
• 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	0.8 1.1
	with varistor
design of the surge suppressor	with valistor
apparent pick-up power of magnet coil at AC • at 50 Hz	590 VA
• at 60 Hz	590 VA
inductive power factor with closing power of the coil • at 50 Hz	0.9
	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	6.7.1/4
• 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 contact	
number of NO contacts for auxiliary contacts instantaneous contact	2
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
- 5.1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
 at 48 V rated value 	6 A
at 48 V rated valueat 60 V rated value	6 A 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	
	240 A
at 480 V rated value	240 A
at 600 V rated value	242 A
yielded mechanical performance [hp]	
 for 3-phase AC motor 	
 at 200/208 V rated value 	75 hp
 at 220/230 V rated value 	100 hp
 at 460/480 V rated value 	200 hp
— at 575/600 V rated value	250 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
	A000 / Q000
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 	gG: 10 A (500 V, 1 kA)
required	
·	
Installation/ mounting/ dimensions	
Installation/ mounting/ dimensions	with vertical mounting surface +/-90° rotatable, with vertical mounting
·	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
Installation/ mounting/ dimensions	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
Installation/ mounting/ dimensions mounting position fastening method	surface +/- 22.5° tiltable to the front and back
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing Yes
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm
Installation/ mounting/ dimensions mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
Installation/ mounting/ dimensions mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm
Installation/ mounting/ dimensions mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
Installation/ mounting/ dimensions mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm
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thickness of connection bar 6 mm diameter of holes 11 mm number of holes 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 0.5 ... 4 mm² solid or stranded • finely stranded with core end processing 0.5 ... 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²) - solid - 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) 2x (20 ... 16), 2x (18 ... 14), 1x 12 • at AWG cables for auxiliary contacts 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-No B10 value with high demand rate according to SN 31920 1 000 000 T1 value for proof test interval or service life according to 20 y IEC 61508 protection class IP on the front according to IEC IP00; IP20 with box terminal/cover 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover suitability for use Yes · safety-related switching on · safety-related switching OFF Yes

Certificates/ approvals

General Product Approval





Confirmation



KC



Functional

EMC Safety/Safety of Declaration of Conformity Test Certificates

Machinery



Type Examination Certificate





Special Test Certific-

Type Test Certificates/Test Report

Test Certificates Marine / Shipping

Miscellaneous











other Railway

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=3RT1065-6AP36-3PA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-6AP36-3PA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AP36-3PA0

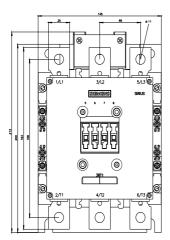
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

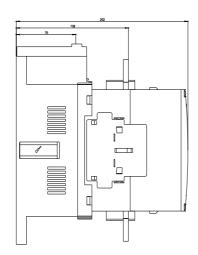
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-6AP36-3PA0&lang=en

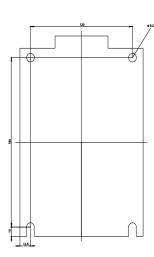
Characteristic: Tripping characteristics, I2t, Let-through current

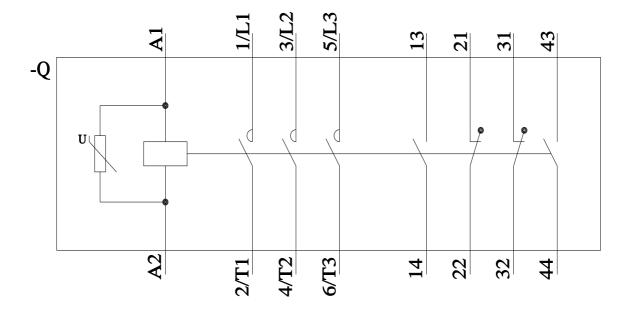
https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-6AP36-3PA0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-6AP36-3PA0&objecttype=14&gridview=view1









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