SIEMENS

Data sheet 3RT1075-6NP36



Power contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 200-277 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S12 Busbar connections Drive: electronic with PLC interface 24 V DC screw terminal

Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT1
General technical data	
Size of contactor	S12
Product extension	
 function module for communication 	No
Auxiliary switch	Yes

Size of contactor	312
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
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 acc. to EN 	690 V
60947-1	
Protection class IP	
• on the front	IP00; IP20 on the front with cover / box terminal
of the terminal	IP00
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 electronics-	5 000 000
compatible auxiliary switch block typical	
 of the contactor with added auxiliary switch block typical 	10 000 000
Reference code acc. to DIN 40719 extended	К
according to IEC 204-2 acc. to IEC 750	
Reference code acc. to DIN EN 81346-2	Q
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
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
Operating current	
● at AC-1 at 400 V	
 — at ambient temperature 40 °C rated value 	430 A
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	430 A
 up to 690 V at ambient temperature 60 °C rated value 	400 A
 up to 1000 V at ambient temperature 40 °C rated value 	200 A
— up to 1000 V at ambient temperature 60 °C rated value	200 A
• at AC-2 at 400 V rated value	400 A
• at AC-3	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	
	400 A
— at 1000 V rated value	400 A 180 A

● at AC-4 at 400 V rated value	350 A
Connectable conductor cross-section in main circuit	
at AC-1	
 at 60 °C minimum permissible 	240 mm²
 at 40 °C minimum permissible 	300 mm²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	150 A
• at 690 V rated value	135 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	400 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	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 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	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
Operating current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	400 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	400 A
— at 110 V rated value	400 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	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
Operating power	
• at AC-1	
— at 230 V at 60 °C rated value	151 kW
— at 400 V rated value	263 kW
— at 400 V at 60 °C rated value	263 kW
— at 690 V rated value	454 kW
— at 690 V at 60 °C rated value	454 kW
— at 1000 V at 60 °C rated value	329 kW
• at AC-2 at 400 V rated value	200 kW
• at AC-3	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	85 kW
at 690 V rated value	133 kW
Thermal short-time current limited to 10 s	3 200 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	35 W
No-load switching frequency	
• at AC	1 000 1/h
• at DC	1 000 1/h
Operating frequency	
• at AC-1 maximum	700 1/h
• at AC-2 maximum	200 1/h
• at AC-3 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	200 277 V
• at 60 Hz rated value	200 277 V
Control supply voltage at DC	
• rated value	200 277 V

Number of NC contacts for auxiliary contacts 2 • instantaneous contact 2 Number of NO contacts for auxiliary contacts 2 • instantaneous contact 2 Operating current at AC-12 maximum 10 A Operating 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	Type of PLC-control input acc. to IEC 60947-1	Type 1
Operating range factor control supply voltage rated value of magnet coil at DC • initial value • Full-scale value Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz Obesign of the surge suppressor Apparent pick-up power of magnet coil at AC • at 50 Hz • at 50 Hz Obesign of the surge suppressor Apparent pick-up power of magnet coil at AC • at 50 Hz Inductive power factor with closing power of the coil • at 50 Hz Apparent holding power of magnet coil at AC • at 50 Hz Apparent holding power of magnet coil at AC • at 50 Hz Closing power of magnet coil at DC Obesign of wagnet coil at DC Operating delay • at AC • at DC Operating delay • at AC • at DC Operating delay • at AC • at DC Arcing time Control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auditiary circuit Number of NC contacts for auxiliary contacts • instantaneous contact 1 2 Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 500 V rated value • at 600 V rated value	Consumed current at PLC-control input acc. to IEC	20 mA
value of magnet coil at DC		
• Full-scale value Operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz Design of the surge suppressor Apparent pick-up power of magnet coil at AC • at 50 Hz Inductive power factor with closing power of the coil • at 50 Hz Apparent holding power of magnet coil at AC • at 50 Hz Apparent holding power of magnet coil at AC • at 50 Hz Apparent holding power of magnet coil at AC • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz Closing power of magnet coil at DC Holding power of magnet coil at DC Closing power of magnet coil at DC Closing delay • at AC • at DC Opening delay • at AC • at DC Arcing time Control version of the switch operating mechanism Availitary circuit Number of NC contacts for auxiliary contacts • instantaneous contact • at 20 V rated value • at 30 V rated value • at 400 V rated value • at 600 V rated value		
Operating range factor control supply voltage rated value of magnet coll at AC • at 50 Hz Design of the surge suppressor Apparent pick-up power of magnet coll at AC • at 50 Hz Inductive power factor with closing power of the coil • at 50 Hz Apparent holding power of magnet coll at AC • at 50 Hz Apparent holding power of magnet coll at AC • at 50 Hz Apparent holding power of magnet coll at AC • at 50 Hz Apparent holding power of magnet coll at AC • at 50 Hz Apparent holding power of magnet coll at AC • at 50 Hz Apparent holding power of magnet coll at AC • at 50 Hz Apparent holding power of magnet coll at AC • at 50 Hz Closing power of magnet coll at DC Boo W Holding power of magnet coll at DC 60 90 ms 60 90 ms Closing delay • at AC • at DC Arcing time Operating time 10 15 ms Control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact Auxiliary circuit at AC-15 • at 230 V rated value • at 600 V rated value • at 600 V rated value • at 500 V rated value • at 600 V rated value	• initial value	0.8
value of magnet coil at AC 0.8 1.1 • at 50 Hz 0.8 1.1 Design of the surge suppressor with varistor Apparent pick-up power of magnet coil at AC 150 Hz • at 50 Hz 750 V.A Inductive power factor with closing power of the coil 0.8 • at 50 Hz 7 V.A Inductive power factor with the holding power of the coil 0.8 • at 50 Hz 0.8 Inductive power factor with the holding power of the coil 0.8 • at 50 Hz 0.8 Closing power of magnet coil at DC 80 W Holding power of magnet coil at DC 3.6 W Closing delay 4 AC 60 90 ms • at DC 60 90 ms Opening delay 4 AC 80 100 ms • at DC 80 100 ms • at DC 80 100 ms • at DC 80 100 ms • art Grightime 10 15 ms Control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Abxiliary circuit 2 Number of NC contacts for auxiliary contacts<	• Full-scale value	1.1
• at 60 Hz		
Design of the surge suppressor Apparent pick-up power of magnet coil at AC • at 50 Hz Inductive power factor with closing power of the coil • at 50 Hz Apparent holding power of magnet coil at AC • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz Closing power of magnet coil at DC 80 W Holding power of magnet coil at DC 10 Sing felay • at AC • at DC Opening delay • at AC • at DC Arcing time Control version of the switch operating mechanism Arcing time Control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact 2 Number of NC contacts for auxiliary contacts • instantaneous contact 2 Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 600 V rated value	● at 50 Hz	0.8 1.1
Apparent pick-up power of magnet coil at AC • at 50 Hz Inductive power factor with closing power of the coil • at 50 Hz Apparent holding power of magnet coil at AC • at 50 Hz Apparent holding power of magnet coil at AC • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz Rough and a coil at DC Inductive power factor with the holding power of the coil • at 50 Hz Closing power of magnet coil at DC 800 W Holding power of magnet coil at DC 800 W Holding power of magnet coil at DC 60 90 ms • at AC • at DC Opening delay • at AC • at DC 80 100 ms Arcing time 10 15 ms Control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact 2 Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 600 V rated value	● at 60 Hz	0.8 1.1
Inductive power factor with closing power of the coil at 50 Hz Apparent holding power of magnet coil at AC at 50 Hz Apparent holding power of magnet coil at AC at 50 Hz TV-A Inductive power factor with the holding power of the coil at 50 Hz O.8 Closing power of magnet coil at DC Bob W Holding power of magnet coil at DC Holding power of magnet coil at DC Olosing delay at AC at DC Opening delay at DC Arcing time Control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliarry circuit Number of NC contacts for auxiliary contacts instantaneous contact Poperating current at AC-15 at 230 V rated value at 400 V rated value at 60 V-A at 60 V-A Axilone time Axilone Axilone time Axilone Ax	Design of the surge suppressor	with varistor
Inductive power factor with closing power of the coil • at 50 Hz Apparent holding power of magnet coil at AC • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz Closing power of magnet coil at DC 800 W Holding power of magnet coil at DC 800 W Closing delay • at AC • at DC Opening delay • at AC • at DC Arching time Control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliarry circuit Number of NC contacts for auxiliary contacts • instantaneous contact 10 A Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value	Apparent pick-up power of magnet coil at AC	
Apparent holding power of magnet coil at AC • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz Closing power of magnet coil at DC **Note of the coil of the service of magnet coil at DC Closing delay • at AC • at DC Opening delay • at AC • at DC Opening time Control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) **Number of NC contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 460 V rated value • at 690 V rated value	● at 50 Hz	750 V·A
Apparent holding power of magnet coil at AC • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz Closing power of magnet coil at DC 800 W Holding power of magnet coil at DC 3.6 W Closing delay • at AC • at DC Opening delay • at AC • at DC Arcing time Control version of the switch operating mechanism **Number of NC contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value	Inductive power factor with closing power of the coil	
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Inductive power factor with the holding power of the coll • at 50 Hz Closing power of magnet coil at DC 800 W Holding power of magnet coil at DC 3.6 W Closing delay • at AC • at DC Opening delay • at AC • at DC Arcing time Control version of the switch operating mechanism Auxiliarry circuit Number of NC contacts for auxiliary contacts • instantaneous contact • instantaneous contact Operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value	Apparent holding power of magnet coil at AC	
coll	● at 50 Hz	7 V·A
• at 50 Hz Closing power of magnet coil at DC Holding power of magnet coil at DC 3.6 W Closing delay • at AC • at DC Opening delay • at AC • at DC Arcing time Control version of the switch operating mechanism Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact • instanta		
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Opening delay • at AC • at DC 80 100 ms Arcing time 10 15 ms Control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact 2 Number of NO contacts for auxiliary contacts • instantaneous contact 2 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	● at AC	
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Auxiliary circuit Number of NC contacts for auxiliary contacts • instantaneous contact • instantaneous contact • instantaneous contact • instantaneous contact 2 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value 1 A		
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Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value 1 A	Number of NO contacts for auxiliary contacts	
Operating 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	• instantaneous contact	2
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value 1 A 	Operating current at AC-12 maximum	10 A
 at 400 V rated value at 500 V rated value at 690 V rated value 1 A 	Operating current at AC-15	
 at 500 V rated value at 690 V rated value 1 A 	• at 230 V rated value	6 A
• at 690 V rated value 1 A	• at 400 V rated value	3 A
	• at 500 V rated value	2 A
	• at 690 V rated value	1 A
Operating current at DC-12	Operating 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
Operating 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 three-phase AC motor	
• at 480 V rated value	361 A
• at 600 V rated value	382 A
Yielded mechanical performance [hp]	
 for three-phase AC motor 	
— at 200/208 V rated value	125 hp
— at 220/230 V rated value	150 hp
— at 460/480 V rated value	300 hp
— at 575/600 V rated value	400 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: 630 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 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
Mounting type	screw fixing
 Side-by-side mounting 	Yes
Height	214 mm

Width	160 mm
Depth	225 mm
Required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	20 mm
— upwards	10 mm
— 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 current circuit	screw-type terminals
Type of connectable conductor cross-sections	0.0
at AWG conductors 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	
• single or multi-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	

 for auxiliary contact 	ts
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— solid— single or multi-stranded

— finely stranded with core end processing

at AWG conductors for auxiliary contacts

AWG number as coded connectable conductor cross section

for auxiliary contacts

2x (20 ... 16), 2x (18 ... 14), 1x 12

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²)

18 ... 14

Safety related data

B10 value	
• with high demand rate acc. to SN 31920	1 000 000
Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
positively driven operation acc. to IEC 60947-5-	No
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529

General Product Approval Functional Declaration of Safety/Safety Conformity of Machinery









Type Examination Certificate



Test		

Marine / Shipping

other

Special Test Certificate

Type Test Certificates/Test Report







Confirmation

other

Miscellaneous

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1075-6NP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6NP36

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

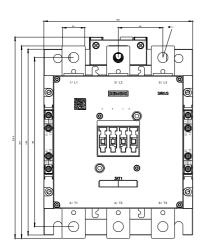
https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6NP36

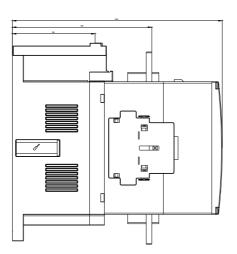
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1075-6NP36&lang=en

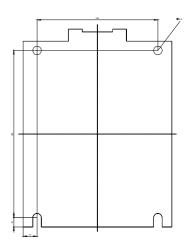
Characteristic: Tripping characteristics, I2t, Let-through current

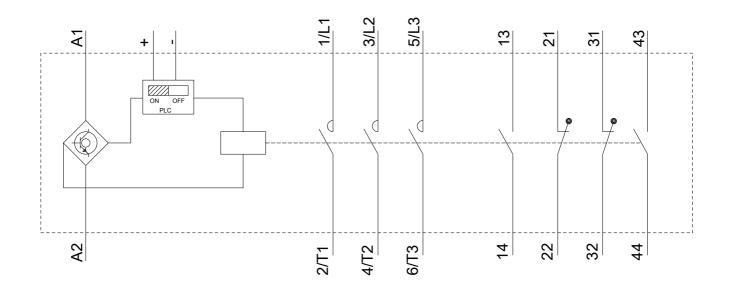
https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6NP36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6NP36&objecttype=14&gridview=view1









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