SIEMENS

Data sheet 3RT1055-2NB36

SIRIUS



power contactor, AC-3 150 A, 75 kW / 400 V AC (50-60 Hz) / DC operation 21-27 AC/DC, 3 V auxiliary contacts 2 NO + 2 NC 3-pole, frame size S6 busbar connections drive: electronic with PLC interface 24 V DC spring-loaded terminal

product branchianic	Circles
product designation	Power contactor
product type designation	3RT1
eneral technical data	
size of contactor	S6
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	27 W
at AC in hot operating state per pole	9 W
without load current share typical	2.8 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 relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts operating voltage at AC-3 rated value maximum at AC-3e rated value maximum operational current at AC-1 at 400 V at ambient temperature 40 °C rated value at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value	10 % 95 % 3 3 1 000 V 1 000 V 185 A 185 A 160 A 90 A
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 up to 690 V at ambient temperature 40 °C rated value up to 690 V at ambient temperature 60 °C rated value 	160 A 90 A
rated value — up to 690 V at ambient temperature 60 °C rated value	160 A 90 A
rated value	90 A
— up to 1000 V at ambient temperature 40 °C rated value	90 A
— up to 1000 V at ambient temperature 60 °C rated value	
at AC-3	
— at 400 V rated value	150 A
— at 500 V rated value	150 A
— at 690 V rated value	150 A
— at 1000 V rated value	65 A
at AC-3e	
— at 400 V rated value	150 A
— at 500 V rated value	150 A
— at 690 V rated value	150 A
— at 1000 V rated value	65 A
at AC-4 at 400 V rated value	132 A
at AC-5a up to 690 V rated value	162 A
at AC-5b up to 400 V rated value	124 A
at AC-6a	
— up to 230 V for current peak value n=20 rated value	150 A
— up to 400 V for current peak value n=20 rated value	150 A
— up to 500 V for current peak value n=20 rated value	150 A
— up to 690 V for current peak value n=20 rated value	150 A
— up to 1000 V for current peak value n=20 rated value at AC-6a	65 A
— up to 230 V for current peak value n=30 rated value	105 A
— up to 400 V for current peak value n=30 rated value	105 A
— up to 500 V for current peak value n=30 rated value	105 A
— up to 690 V for current peak value n=30 rated value	105 A
— up to 1000 V for current peak value n=30 rated value	65 A
minimum cross-section in main circuit at maximum AC-1 rated value	95 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	68 A
at 690 V rated value	57 A
operational current	
at 1 current path at DC-1	

— at 24 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.5 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	20 A
— at 440 V rated value	3.2 A
— at 600 V rated value	1.6 A
• with 3 current paths in series at DC-1	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	11.5 A
— at 600 V rated value	4 A
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	160 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value — at 440 V rated value	0.17 A
	0.17 A 0.12 A
— at 600 V rated value	U.12 A
with 2 current paths in series at DC-3 at DC-5 at 24 V reted value.	460 A
— at 24 V rated value	160 A
— at 110 V rated value	160 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	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 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	45 kW
— at 400 V rated value	75 kW
— at 500 V rated value	90 kW
— at 690 V rated value	132 kW
— at 1000 V rated value	90 kW
at AC-3e	
— at 230 V rated value	45 kW
— at 400 V rated value	75 kW
— at 500 V rated value	90 kW
— at 690 V rated value	132 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles at AC-4	
at 400 V rated value	38 kW
at 690 V rated value	55 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	60 000 kVA
up to 400 V for current peak value n=20 rated value	100 000 VA
up to 500 V for current peak value n=20 rated value	130 000 VA
up to 690 V for current peak value n=20 rated value	170 000 VA
up to 1000 V for current peak value n=20 rated value	110 000 VA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	40 000 VA

up to 400 V for current peak value n=30 rated value	70 000 VA
up to 500 V for current peak value n=30 rated value	90 000 VA
up to 690 V for current peak value n=30 rated value	120 000 VA
up to 1000 V for current peak value n=30 rated	110 000 VA
value	
short-time withstand current in cold operating state up to 40 °C	
limited to 1 s switching at zero current maximum	2 727 A; Use minimum cross-section acc. to AC-1 rated value
limited to 1's switching at zero current maximum	1 831 A: Use minimum cross-section acc. to AC-1 rated value
limited to 3 s switching at zero current maximum	1 300 A; Use minimum cross-section acc. to AC-1 rated value
limited to 70 s switching at zero current maximum	850 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	703 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	703 A, USE Millimidill Cluss-Section acc. to AC-1 fated value
at AC	1 000 1/h
at DC	1 000 1/h
operating frequency	1 000 1/11
at AC-1 maximum	800 1/h
at AC-2 maximum	300 1/h
at AC-3 maximum	750 1/h
at AC-3 maximum	750 1/h
at AC-4 maximum	130 1/h
Control circuit/ Control	100 1/11
	AC/DC
type of voltage of the control supply voltage control supply voltage at AC	NO/DO
at 50 Hz rated value	21 27.3 V
at 60 Hz rated value	21 27.3 V
control supply voltage at DC	Z1 Z1.3 V
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	20 mA
IEC 60947-1 maximum	ZUTIIA
voltage at PLC-control input rated value	24 V
operating range factor of the voltage at PLC-control	0.8 1.1
input	
operating range factor control supply voltage rated	
value of magnet coil at DC	0.0
initial value	0.8
full-scale value operating range factor control supply voltage rated	1.1
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	
at 50 Hz	280 VA
at 60 Hz	280 VA
inductive power factor with closing power of the coil	
at 50 Hz	0.8
at 60 Hz	0.8
apparent holding power of magnet coil at AC	
at 50 Hz	4.4 VA
at 60 Hz	4.4 VA
inductive power factor with the holding power of the	
coil	
at 50 Hz	0.5
at 60 Hz	0.5
closing power of magnet coil at DC	320 W
holding power of magnet coil at DC	2.8 W
closing delay	
at AC	35 75 ms
at DC	35 75 ms
opening delay	

-1.00	00 00
at AC	80 90 ms
at DC	80 90 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
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	J., J.,
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	0.3 A 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	4-0.0
at 480 V rated value	156 A
at 600 V rated value	144 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 230 V rated value	30 hp
for 3-phase AC motor	50 h-
— at 200/208 V rated value	50 hp
— at 220/230 V rated value	60 hp
— at 460/480 V rated value	125 hp
— at 575/600 V rated value	150 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: 355 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 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	172 mm
width	120 mm
depth	170 mm
p	

For live parts forwards forwards upwards downwards at the side downwards -		
- forwards - upwards - upwards - downwards - downwards - at the side Connections/ Terminals type of electrical connection for main current circuit at contactor for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil width of connection bar thickness of connectable conductor cross-sections at AWG cables for main contacts at AWG cables for main contacts stranded connectable conductor cross-section for main contacts stranded finely stranded with core end processing finely stranded with core end processing - solid or stranded finely stranded without core end processing - solid or stranded - solid or stranded finely stranded without core end processing - solid or stranded - solid or stranded finely stranded without core end processing - solid or stranded - solid or s	— forwards	20 mm
downwards for live parts forwards upwards upwards downwards at the side downwards at the side to many and a the side t	•	
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type of connectable conductor cross-sections for auxiliary contacts		
type of connectable conductor cross-sections for auxiliary contacts — solid — solid 2x (0.25 2.5 mm²) — solid or stranded — finely stranded with core end processing — finely stranded without core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for auxiliary contacts 24 14 AWG number as coded connectable conductor cross section for auxiliary contacts 24 14 ARG number as coded connectable conductor cross section for auxiliary contacts 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 Protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover		
for auxiliary contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for auxiliary contacts for auxiliary contacts 24 14 AGety 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 IEC 60947- 5-1 B10 value with high demand rate according to IEC 60947- 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover		0.25 2.5 mm²
- solid - solid or stranded - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section - for auxiliary contacts AWG number as coded connectable conductor cross section - for auxiliary contacts - 24 14 - 34 14 - 35 afety 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 - protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover		
- solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for auxiliary contacts 24 14 AGGETY 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 IEC 60947-5-1 B10 value with high demand rate according to IEC 60947-60529 The protection on the front according to IEC 60529 The protection on the front according to IEC 60529 The protection contact from the front with box terminal/cover	•	0 (0.05 0.5 0.5
finely stranded with core end processing finely stranded without core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for auxiliary contacts 24 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 IEC 60947- 5-1 B10 value with high demand rate according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover		
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AWG number as coded connectable conductor cross section for auxiliary contacts 24 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 IEC 60947- 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover		
for auxiliary contacts 24 14 Safety related data product function mirror contact according to IEC 60947-4-1	·	ZX (Z4 14)
for auxiliary contacts 24 14 product function mirror contact according to IEC 60947-4-1 Yes positively driven operation according to IEC 60947-5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover		
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 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover	for auxiliary contacts	24 14
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 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover	afety related data	
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 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover		
positively driven operation according to IEC 60947- 5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover	mirror contact according to IEC 60947-4-1	Yes
5-1 B10 value with high demand rate according to SN 31920 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover		No
protection class IP on the front according to IEC 60529 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front 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	B10 value with high demand rate according to SN 31920	1 000 000
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with box terminal/cover		IP00; IP20 with box terminal/cover
	00525	finger-safe for vertical contact from the front with box terminal/cover
the state of the s		
safety-related switching OFF Yes	touch protection on the front according to IEC 60529	ingor sare, for vertical contact from the front with box terminal cover



Confirmation





<u>KC</u>



Functional EMC Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping

other











Miscellaneous

other

Railway

Confirmation

Confirmation

Miscellaneous

Special Test Certificate

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=3RT1055-2NB36

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1055-2NB36}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-2NB36

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1055-2NB36&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-2NB36/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1055-2NB36&objecttype=14&gridview=view1

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