SIEMENS

Data sheet 3RT1064-6AB36



Power contactor, AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: conventional screw terminal

product type designation General technical data size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current at AC in hot operating state • per pole power loss [W] for rated value of the current without load current share typical surge voltage resistance • of main circuit rated value • of auxiliary circuit rated value maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	
Size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current at AC in hot operating state • per pole power loss [W] for rated value of the current without load current share typical surge voltage resistance • of main circuit rated value • of auxiliary circuit rated value maximum permissible voltage for safe isolation between S10 No Yes 51 W 7.4 W 7.4 W	
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product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current at AC in hot operating state • per pole power loss [W] for rated value of the current without load current share typical surge voltage resistance • of main circuit rated value • of auxiliary circuit rated value maximum permissible voltage for safe isolation between	
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■ auxiliary switch power loss [W] for rated value of the current at AC in hot operating state ● per pole	
power loss [W] for rated value of the current at AC in hot operating state • per pole power loss [W] for rated value of the current without load current share typical surge voltage resistance • of main circuit rated value • of auxiliary circuit rated value maximum permissible voltage for safe isolation between 51 W 7.4 W 8 kV 6 kV	
operating state • per pole power loss [W] for rated value of the current without load current share typical surge voltage resistance • of main circuit rated value • of auxiliary circuit rated value maximum permissible voltage for safe isolation between 17 W 7.4 W 8 kV 6 kV	
power loss [W] for rated value of the current without load current share typical surge voltage resistance of main circuit rated value of auxiliary circuit rated value maximum permissible voltage for safe isolation between 7.4 W 8 kV 6 kV	
ioad current share typical surge voltage resistance of main circuit rated value of auxiliary circuit rated value maximum permissible voltage for safe isolation between ioad current share typical 8 kV 6 kV	
 of main circuit rated value of auxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation between 690 V 	
 of auxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation between 690 V 	
maximum permissible voltage for safe isolation between 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 	
 of the contactor with added auxiliary switch block typical 10 000 000 	
reference code acc. to IEC 81346-2	
Ambient conditions	
installation altitude at height above sea level maximum 2 000 m	
• ambient temperature during operation -25 +60 °C	
• ambient temperature 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
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	275 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	275 A
rated value	2.07.
 up to 690 V at ambient temperature 60 °C rated value 	250 A
 up to 1000 V at ambient temperature 40 °C rated value 	100 A
 up to 1000 V at ambient temperature 60 °C rated value 	100 A
• at AC-3	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
 at AC-4 at 400 V rated value 	195 A
at AC-5a up to 690 V rated value	242 A
 at AC-5b up to 400 V rated value 	186 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	225 A
 up to 400 V for current peak value n=20 rated value 	225 A
 up to 500 V for current peak value n=20 rated value 	225 A
 up to 690 V for current peak value n=20 rated value 	225 A
— up to 1000 V for current peak value n=20 rated value	68 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	172 A
 up to 400 V for current peak value n=30 rated value 	172 A
— up to 500 V for current peak value n=30 rated value	172 A
— up to 690 V for current peak value n=30 rated value	172 A
— up to 1000 V for current peak value n=30 rated value	68 A
minimum cross-section in main circuit at maximum AC-1 rated value	150 mm²
operational current for approx. 200000 operating cycles at AC-4	00 A
at 400 V rated value	96 A
at 690 V rated value	85 A
operational current	
• at 1 current path at DC-1	200 A
— at 24 V rated value	200 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	000 A
— at 24 V rated value	200 A
— at 110 V rated value	200 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	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 A
— at 440 V rated value	11 A
— at 600 V rated value	4 A
operational current	
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	200 A
— at 110 V rated value	2.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.17 A
— at 600 V rated value	0.12 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	200 A
— at 110 V rated value	200 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	200 A
— at 110 V rated value	200 A
— at 220 V rated value	200 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	55 kW
— at 400 V rated value	110 kW
— at 500 V rated value	160 kW
— at 690 V rated value	200 kW
— at 1000 V rated value	90 kW
operating power for approx. 200000 operating cycles	
at AC-4	EA IAM
at 400 V rated valueat 690 V rated value	54 kW 82 kW
	OZ KVV
operating apparent power at AC-6a	00 000 14/ 4
• up to 230 V for current peak value n=20 rated value	90 000 kV·A
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value	150 000 V·A
up to 500 V for current peak value n=20 rated value	190 000 V·A
up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated.	260 000 V·A
 up to 1000 V for current peak value n=20 rated value 	110 000 V·A
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	60 000 V·A
• up to 400 V for current peak value n=30 rated value	110 000 V·A
up to 500 V for current peak value n=30 rated value	140 000 V·A
up to 690 V for current peak value n=30 rated value	200 000 V·A
up to 1000 V for current peak value n=30 rated	110 000 V·A
value	
short-time withstand current in cold operating state up to 40 °C	
	4 000 A. Haa mainimuum araaa aaatian aaa ta AC 4 ratad yalua
•	4 000 A, Use minimum cross-section acc. to AC-1 rated value
Iimited to 1 s switching at zero current maximum	4 000 A; Use minimum cross-section acc. to AC-1 rated value 2 807 A: Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum 	2 807 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	2 807 A; Use minimum cross-section acc. to AC-1 rated value 2 082 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	2 807 A; Use minimum cross-section acc. to AC-1 rated value 2 082 A; Use minimum cross-section acc. to AC-1 rated value 1 397 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 	2 807 A; Use minimum cross-section acc. to AC-1 rated value 2 082 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum 	2 807 A; Use minimum cross-section acc. to AC-1 rated value 2 082 A; Use minimum cross-section acc. to AC-1 rated value 1 397 A; Use minimum cross-section acc. to AC-1 rated value

1.00	0.000.4#
• at DC	2 000 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-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 	23 26 V
at 60 Hz rated value	23 26 V
control supply voltage at DC	
rated value	23 26 V
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	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	590 V·A
inductive power factor with closing power of the coil	
● at 50 Hz	0.9
apparent holding power of magnet coil at AC	
● at 50 Hz	6.7 V·A
inductive power factor with the holding power of the coil	
● at 50 Hz	0.9
closing power of magnet coil at DC	650 W
holding newer of magnet soil at DC	7.4 W
holding power of magnet coil at DC	7.4 VV
closing delay	7.44 VV
closing delay • at AC	30 95 ms
closing delay • at AC • at DC	
closing delay • at AC	30 95 ms 30 95 ms
closing delay • at AC • at DC opening delay • at AC	30 95 ms 30 95 ms 40 80 ms
closing delay • at AC • at DC opening delay • at AC • at DC	30 95 ms 30 95 ms 40 80 ms 40 80 ms
closing delay • at AC • at DC opening delay • at AC • at DC arcing time	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms
closing delay • at AC • at DC opening delay • at AC • at DC arcing time control version of the switch operating mechanism	30 95 ms 30 95 ms 40 80 ms 40 80 ms
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2 2 10 A 6 A 3 A
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2 2 10 A 6 A 3 A
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2 2 2 10 A 6 A 3 A 2 A
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2 2 2 10 A 6 A 3 A 2 A
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2 2 10 A 6 A 3 A 2 A 1 A
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2
closing delay	30 95 ms 30 95 ms 40 80 ms 40 80 ms 10 15 ms Standard A1 - A2 2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 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	180 A
at 600 V rated value	192 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 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 assignment 2 required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415
. 3/1-1-1-3	V, 50 kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
In a tall a time to an according of all or a major a	
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
mounting position	surface +/- 22.5° tiltable to the front and back
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing
mounting position fastening method • side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing Yes
mounting position fastening method • side-by-side mounting height	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm
mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — invards — upwards — at the side • for grounded parts — upwards	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm 20 mm
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm
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mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 10 mm

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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
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 mm ²
 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	
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 60947-5-1 	No
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front acc. 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	







<u>KC</u>





EMC

Declaration of Conformity

General Product Approval

Test Certificates

Marine / Shipping



Miscellaneous

Special Test Certificate

Type Test
Certificates/Test
Report

Miscellaneous



Marine / Shipping

other





Miscellaneous

Confirmation

Miscellaneous

Confirmation

Railway

Special Test

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=3RT1064-6AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-6AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6AB36

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

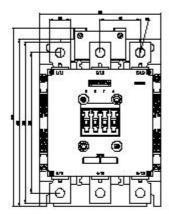
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1064-6AB36&lang=en

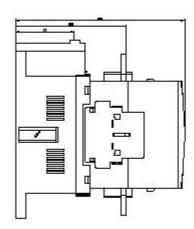
Characteristic: Tripping characteristics, I2t, Let-through current

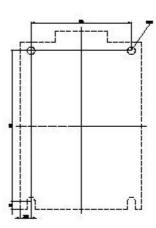
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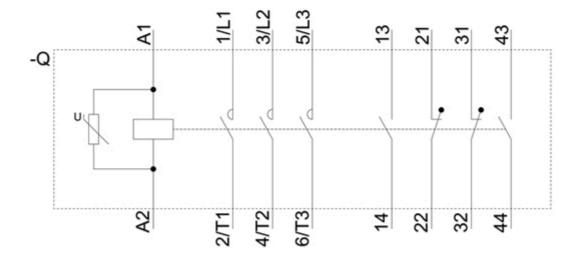
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1064-6AB36&objecttype=14&gridview=view1









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