SIEMENS

Data sheet 3RT2637-1NB35



capacitor contactor, AC-6b 75 kVAr, / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 2 NC, screw terminal, size: S2 $\,$

	OID#10
product brand name	SIRIUS
product designation	capacitor contactors
product type designation	3RT26
General technical data	
size of contactor	S2
product extension auxiliary switch	Yes
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
of auxiliary circuit with degree of pollution 3 rated value	690 V
surge voltage resistance	
of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	6.8g / 5 ms, 4g / 10 ms
• at DC	6,8g / 5 ms, 4g / 10 ms
shock resistance with sine pulse	
• at AC	10.6g / 5 ms, 6.2g / 10 ms
mechanical service life (operating cycles)	
 of the contactor with added auxiliary switch block typical 	3 000 000
electrical endurance (operating cycles)	150 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2014
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
number of NC contacts for main contacts	0
operational current at AC-6b at 690 V at ambient temperature 60 °C rated value	108 A
operating reactive power at AC-6b	
\bullet at 230 V at 50/60 Hz at ambient temperature 60 $^{\circ}\text{C}$ rated value	14 43 kvar

• at 400 V at 50/60 Hz at ambient temperature 60 °C rated	25 75 kvar
value ● at 500 V at 50/60 Hz at ambient temperature 60 °C rated	31 94 kvar
value	31 54 kVdi
• at 690 V at 50/60 Hz at ambient temperature 60 °C rated	43 129 kvar
value	
no-load switching frequency	F00.4/b
• at AC	500 1/h
• at DC	500 1/h
operating frequency at AC-6b	100 1/h
at 230 V maximumat 240 V maximum	100 1/h
• at 400 V maximum	80 1/h
• at 480 V maximum	50 1/h
• at 500 V maximum	45 1/h
• at 600 V maximum	32 1/h
at 690 V maximum	25 1/h
Control circuit/ Control	
type of voltage	AC/DC
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	20 33 V
at 60 Hz rated value	20 33 V
control supply voltage frequency	
• 1 rated value	50 Hz
2 rated value	60 Hz
control supply voltage at DC	
rated value	20 33 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
inrush current peak	30 A
duration of inrush current peak	30 μs
locked-rotor current mean value	6.5 A
locked-rotor current peak	12 A
duration of locked-rotor current	230 ms
holding current mean value	105 mA
apparent pick-up power of magnet coil at AC	110 VA
inductive power factor with closing power of the coil	0.95
apparent holding power of magnet coil at AC	2.5 VA
inductive power factor with the holding power of the coil	0.95
closing power of magnet coil at DC	70 W
holding power of magnet coil at DC	1.5 W
closing delay	
• at AC	30 110 ms
• at DC	30 110 ms
opening delay	
• at AC	30 55 ms
• at DC	30 55 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
attachable	1
instantaneous contact	2
number of NO contacts for auxiliary contacts	0
attachable	1

instantaneous contact	0
operational current of auxiliary contacts at AC-12 maximum	10 A
operational current of auxiliary contacts at AC-15	
● at 230 V	6 A
● at 400 V	3 A
• at 690 V	0 A
operational current of auxiliary contacts at DC-13	
• at 24 V	6 A
• at 60 V	2 A
• at 110 V	1 A
• at 125 V	0.9 A
• at 220 V	0.3 A
contact reliability of auxiliary contacts	0.0000001
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	7,000 / 2,000
·	
of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required	gG: 200 A (690 V, 50 kA)
for short-circuit protection of the auxiliary switch required	qG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	<u> </u>
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and
	backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
height	114 mm
width	65 mm
depth	130 mm
required spacing	
with side-by-side mounting at the side	10 mm
 for grounded parts at the side 	10 mm
<u> </u>	
Connections/ Terminals	
Connections/ Terminals	screw-type terminals
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	screw-type terminals screw-type terminals
Connections/ Terminals type of electrical connection • for main current circuit	
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	screw-type terminals
type of electrical connection of or main current circuit for auxiliary and control circuit at contactor for auxiliary contacts	screw-type terminals Screw-type terminals
type of electrical connection of or main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil	screw-type terminals Screw-type terminals
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts	screw-type terminals Screw-type terminals Screw-type terminals
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 16 mm²)
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • stranded	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 16 mm²) 2x (10 35 mm²), 1x (10 50 mm²)
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 16 mm²) 2x (10 35 mm²), 1x (10 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²)
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded • finely stranded with core end processing	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 16 mm²) 2x (10 35 mm²), 1x (10 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²)
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections	screw-type terminals Screw-type terminals Screw-type terminals 2x (1 16 mm²) 2x (10 35 mm²), 1x (10 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²)
type of electrical connection	screw-type terminals Screw-type terminals 2x (1 16 mm²) 2x (10 35 mm²), 1x (10 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²)
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid	screw-type terminals Screw-type terminals 2x (1 16 mm²) 2x (10 35 mm²), 1x (10 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded	screw-type terminals Screw-type terminals 2x (1 16 mm²) 2x (10 35 mm²), 1x (10 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing	screw-type terminals Screw-type terminals 2x (1 16 mm²) 2x (10 35 mm²), 1x (10 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts type of minimum connectable cross-sections for main	screw-type terminals Screw-type terminals 2x (1 16 mm²) 2x (10 35 mm²), 1x (10 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
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type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts type of minimum connectable cross-sections for main contacts at AC-6b • at 40 °C • at 60 °C AWG number as coded connectable conductor cross section for main contacts Safety related data	screw-type terminals Screw-type terminals 2x (1 16 mm²) 2x (10 35 mm²), 1x (10 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 1.5 mm²), 2x (18 14), 2x 12
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Confirmation





EMC Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report





other Dangerous Good

<u>Confirmation</u> <u>Transport Information</u>

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2637-1NB35

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2637-1NB35

 ${\bf Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RT2637-1NB35

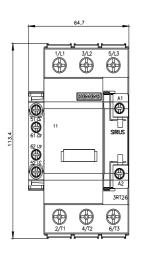
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

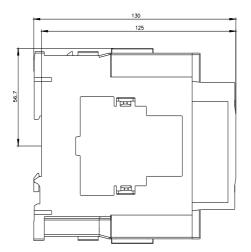
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2637-1NB35&lang=en

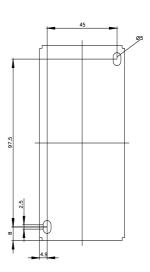
Characteristic: Tripping characteristics, I²t, Let-through current

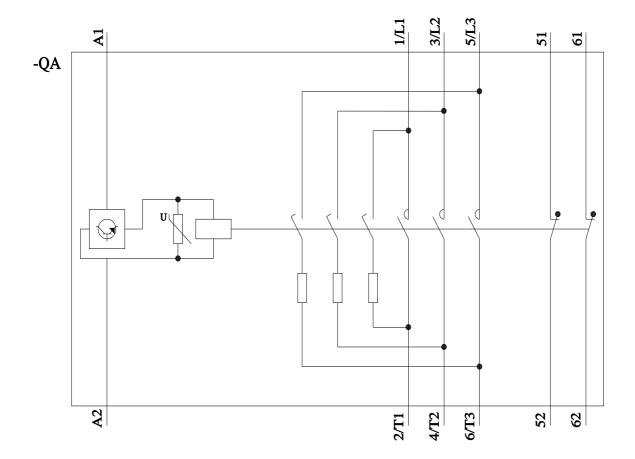
https://support.industry.siemens.com/cs/ww/en/ps/3RT2637-1NB35/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2637-1NB35&objecttype=14&gridview=view1









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