SIEMENS

Data sheet 3RT2625-1NB35



capacitor contactor, AC-6b 16.7 kVAr, / 400 V, 3-pole, 21-28 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 2 NC, screw terminal, size: S0

product brand name	SIRIUS
product designation	capacitor contactors
product type designation	3RT26
General technical data	
size of contactor	S0
product extension auxiliary switch	No
power loss [W] for rated value of the current	
 at AC in hot operating state per pole 	0.9 W
 without load current share typical 	1.7 W
type of calculation of power loss depending on pole	quadratic
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	7,5g / 5 ms, 4,7g / 10 ms
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 10 ms
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating cycles)	
 of the contactor with added auxiliary switch block typical 	3 000 000
electrical endurance (operating cycles)	200 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2014
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Weight	0.695 kg
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 %
Environmental footprint	

Fig. in a constant December 1 December 1 (FDD)	V
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	106 kg
global warming potential [CO2 eq] during manufacturing	2.47 kg
global warming potential [CO2 eq] during operation	104 kg
global warming potential [CO2 eq] after end of life	-0.226 kg
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	24 A
operating reactive power at AC-6b	
 at 230 V at 50/60 Hz at ambient temperature 60 °C rated value 	3 9.6 kvar
 at 400 V at 50/60 Hz at ambient temperature 60 °C rated value 	6 16.7 kvar
 at 500 V at 50/60 Hz at ambient temperature 60 °C rated value 	7 21 kvar
 at 690 V at 50/60 Hz at ambient temperature 60 °C rated value 	10 29 kvar
no-load switching frequency	
• at AC	500 1/h
• at DC	500 1/h
operating frequency at AC-6b	
• at 230 V maximum	180 1/h
• at 240 V maximum	180 1/h
• at 400 V maximum	180 1/h
• at 480 V maximum	180 1/h
• at 500 V maximum	180 1/h
• at 600 V maximum	180 1/h
• at 690 V maximum	150 1/h
Control circuit/ Control	
type of voltage	AC/DC
	AC/DC AC/DC
type of voltage	
type of voltage type of voltage of the control supply voltage	
type of voltage type of voltage of the control supply voltage control supply voltage at AC	AC/DC
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value	AC/DC 21 28 V
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value	AC/DC 21 28 V
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency	AC/DC 21 28 V 21 28 V
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value	AC/DC 21 28 V 21 28 V 50 Hz
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value control supply voltage at DC rated value 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	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value 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	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value 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	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value control supply voltage at DC rated value 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 inrush current peak	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value 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 inrush current peak duration of inrush current peak	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A 30 μs
type of voltage type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage frequency 1 rated value 2 rated value control supply voltage at DC rated value control supply voltage at DC rated value 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 inrush current peak duration of inrush current peak locked-rotor current mean value	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A 30 μs 0.3 A
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value 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 inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A 30 μs 0.3 A 0.52 A
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value 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 inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current peak duration of locked-rotor current	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A 30 μs 0.3 A 0.52 A 180 ms
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value 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 inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current mean value duration of locked-rotor current holding current mean value	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A 30 μs 0.3 A 0.52 A 180 ms 45 mA
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value 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 inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current mean value apparent pick-up power of magnet coil at AC	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A 30 μs 0.3 A 0.52 A 180 ms 45 mA 6.7 VA
type of voltage type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage frequency 1 rated value 2 rated value control supply voltage at DC rated value 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 inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current mean value apparent pick-up power of magnet coil at AC inductive power factor with closing power of the coil	AC/DC 21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A 30 µs 0.3 A 0.52 A 180 ms 45 mA 6.7 VA 0.98
type of voltage type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage frequency 1 rated value 2 rated value control supply voltage at DC rated value 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 inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current mean value apparent pick-up power of magnet coil at AC inductive power factor with closing power of the coil apparent holding power of magnet coil at AC	21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A 30 µs 0.3 A 0.52 A 180 ms 45 mA 6.7 VA 0.98 2 VA
type of voltage type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value 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 inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current mean value apparent pick-up power of magnet coil at AC inductive power factor with closing power of the coil apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil	21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A 30 µs 0.3 A 0.52 A 180 ms 45 mA 6.7 VA 0.98 2 VA 0.86
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value 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 inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current mean value apparent pick-up power of magnet coil at AC inductive power factor with closing power of the coil apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil closing power of magnet coil at DC	21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A 30 µs 0.3 A 0.52 A 180 ms 45 mA 6.7 VA 0.98 2 VA 0.86 5.9 W
type of voltage type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value at 60 Hz rated value control supply voltage frequency 1 rated value 2 rated value control supply voltage at DC rated value control supply voltage at DC rated value 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 inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current mean value apparent pick-up power of magnet coil at AC inductive power factor with closing power of the coil apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil closing power of magnet coil at DC holding power of magnet coil at DC	21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A 30 µs 0.3 A 0.52 A 180 ms 45 mA 6.7 VA 0.98 2 VA 0.86
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value control supply voltage frequency • 1 rated value • 2 rated value control supply voltage at DC rated value 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 inrush current peak duration of inrush current peak locked-rotor current mean value locked-rotor current mean value apparent pick-up power of magnet coil at AC inductive power factor with closing power of the coil apparent holding power of magnet coil at AC inductive power factor with the holding power of the coil closing power of magnet coil at DC	21 28 V 21 28 V 50 Hz 60 Hz 21 28 V 0.7 1.3 0.7 1.3 0.7 1.3 3 A 30 µs 0.3 A 0.52 A 180 ms 45 mA 6.7 VA 0.98 2 VA 0.86 5.9 W

• at DC	50 80 ms
opening delay	
• at AC	30 50 ms
• at DC	30 50 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
residual current of the electronics for control with signal <0>	
• at AC at 230 V maximum permissible	7 mA
at DC at 24 V maximum permissible	16 mA
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
attachable	0
• instantaneous contact	2
number of NO contacts for auxiliary contacts	1
attachable	0
• instantaneous contact	1
operational current of auxiliary contacts at AC-12 maximum	10 A
operational current of auxiliary contacts at AC-15	6.4
• at 230 V	6 A
• at 400 V	3 A
• at 690 V	1 A
operational current of auxiliary contacts at DC-13	6.0
• at 24 V	6 A
• at 60 V	2 A 1 A
• at 110 V • at 125 V	1 A 0.9 A
• at 125 V • at 220 V	0.9 A
at 220 V contact reliability of auxiliary contacts	0.3 A 0.00000001
UL/CSA ratings	0.00000001
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the miniature circuit breaker for short-circuit protection	C characteristic: 10 A; 0.4 kA
of the auxiliary circuit up to 230 V	
design of the fuse link	
for short-circuit protection of the main circuit with type of coordination 1 required.	gG: 50 A (690 V, 50 kA)
coordination 1 required	aC: 10 A (690 V 1 kA)
for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	gG: 10 A (690 V, 1 kA)
Installation/ mounting/ dimensions	±/ 180° rotation possible on vertical resulting surfaces at 100 decimals.
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	135 mm
width	45 mm
depth	165 mm
required spacing	10 mm
with side-by-side mounting at the side for grounded parts at the side	10 mm
for grounded parts at the side Connections/ Terminals	10 mm
Connections/ Terminals type of electrical connection	
type of electrical connection • for main current circuit	screw-type terminals
	screw-type terminals
 for auxiliary and control circuit at contactor for auxiliary contacts 	screw-type terminals Screw-type terminals
at contactor for auxiliary contacts of magnet coil	Screw-type terminals Screw-type terminals
type of connectable conductor cross-sections for main contacts	- Son type terminate
solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²

 solid or stranded 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12	
type of minimum connectable cross-sections for main contacts at AC-6b		
• at 40 °C	1x 6 mm²	
• at 60 °C	1x 10 mm², 2x 6 mm²	
AWG number as coded connectable conductor cross section for main contacts	16 8	
Safety related data		
product function		
 mirror contact according to IEC 60947-4-1 	No	
 positively driven operation according to IEC 60947-5-1 	No	
Electrical Safety		
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
Approvals Certificates		
General Product Approval		EMV













Test Certificates	
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Maritime application

other

Type Test Certificates/Test Report







Miscellaneous



other

Dangerous goods

Environment

Confirmation

Transport Information



Environmental Confirmations

Further information

Information on the packaging

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

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3RT2625-1NB35

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2625-1NB35

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2625-1NB35

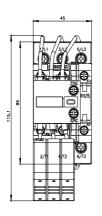
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

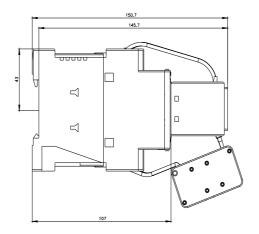
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2625-1NB35&lang=en

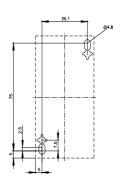
Characteristic: Tripping characteristics, I2t, Let-through current

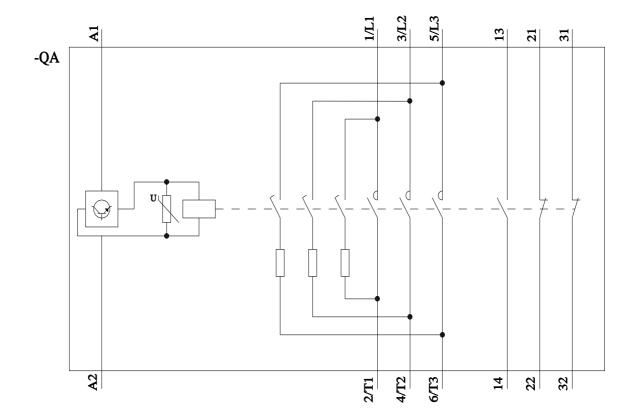
https://support.industry.siemens.com/cs/ww/en/ps/3RT26

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2625-1NB35&objecttype=14&gridview=view1









last modified:

9/5/2025

