## **SIEMENS**

Data sheet 3RT2628-1NP35



capacitor contactor, AC-6b 33 kVAr, / 400 V, 3-pole, 200-280 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 2 NC, screw terminal

product brand name	SIRIUS
product designation	capacitor contactors
product type designation	3RT26
General technical data	
size of contactor	S0
product extension auxiliary switch	No
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	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	
<ul><li>during operation</li></ul>	-25 +60 °C
<ul><li>during storage</li></ul>	-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	47.6 A
operating reactive power at AC-6b	

at 230 V at 50/60 Hz at ambient temperature 60 °C rated value	6 19 kvar
at 400 V at 50/60 Hz at ambient temperature 60 °C rated value	11 33 kvar
at 500 V at 50/60 Hz at ambient temperature 60 °C rated value	14 41 kvar
• at 690 V at 50/60 Hz at ambient temperature 60 °C	19 57 kvar
rated value no-load switching frequency	
• at AC	500 1/h
• at DC	500 1/h
operating frequency at AC-6b	333 IIII
at 230 V maximum	100 1/h
at 240 V maximum	100 1/h
at 400 V maximum	100 1/h
• at 480 V maximum	70 1/h
• at 500 V maximum	65 1/h
at 600 V maximum	45 1/h
at 690 V maximum	36 1/h
Control circuit/ Control	
type of voltage	AC/DC
type of voltage of the control supply voltage	AC/DC AC/DC
control supply voltage at AC	
at 50 Hz rated value	200 280 V
at 60 Hz rated value	200 280 V
control supply voltage frequency	
• 1 rated value	50 Hz
2 rated value	60 Hz
control supply voltage at DC	
rated value	200 280 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
initial value	0.7
full-scale value	1.3
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.7 1.3
• at 60 Hz	0.7 1.3
inrush current peak	25 A
duration of inrush current peak	30 μs
locked-rotor current mean value	0.1 A
locked-rotor current peak	0.13 A
duration of locked-rotor current	180 ms
holding current mean value	17 mA
apparent pick-up power of magnet coil at AC	14.7 VA
inductive power factor with closing power of the coil	0.98
apparent holding power of magnet coil at AC	4.3 VA
inductive power factor with the holding power of the coil	0.56
closing power of magnet coil at DC	14.3 W
holding power of magnet coil at DC	1.9 W
closing delay	
• at AC	50 80 ms
• 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
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
attachable	0

in stantan a sur a sustant	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	C A
• at 230 V	6 A
• at 400 V	3 A
• at 690 V	1 A
operational current of auxiliary contacts at DC-13	0.4
• 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	
design of the fuse link	
for short-circuit protection of the main circuit with	gG: 100 A (690 V, 50 kA)
type of coordination 1 required	
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	gG: 10 A (500 V, 1 kA)
required	
Installation/ mounting/ dimensions	
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	150 mm
width	45 mm
depth	165 mm
required spacing	
<ul><li>required spacing</li><li>with side-by-side mounting at the side</li></ul>	10 mm
required spacing  • with side-by-side mounting at the side  • for grounded parts at the side	
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required spacing  • with side-by-side mounting at the side  • for grounded parts at the side  Connections/ Terminals  type of electrical connection  • for main current circuit	10 mm 10 mm screw-type terminals
required spacing  • with side-by-side mounting at the side  • for grounded parts at the side  Connections/ Terminals  type of electrical connection  • for main current circuit  • for auxiliary and control circuit	10 mm 10 mm screw-type terminals screw-type terminals
required spacing  • with side-by-side mounting at the side  • for grounded parts at the side  Connections/ 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	10 mm 10 mm  screw-type terminals screw-type terminals Screw-type terminals
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protection class IP on the front according to IEC

touch protection on the front according to IEC 60529

IP20

finger-safe, for vertical contact from the front

Certificates/ approvals

**General Product Approval** 

EMC



Confirmation









**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Type Test Certificates/Test Report







other

**Dangerous Good** 

Confirmation



<u>Transport Information</u>

## Further information

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=3RT2628-1NP35

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2628-1NP35

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2628-1NP35

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

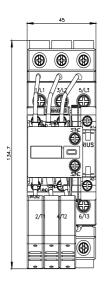
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2628-1NP35&lang=en

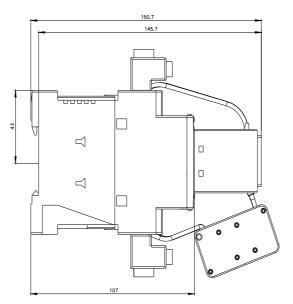
Characteristic: Tripping characteristics, I²t, Let-through current

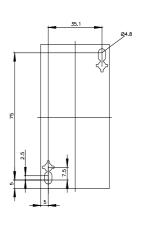
https://support.industry.siemens.com/cs/ww/en/ps/3RT2628-1NP35/char

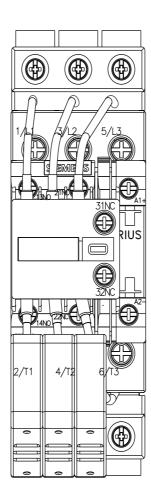
Further characteristics (e.g. electrical endurance, switching frequency)

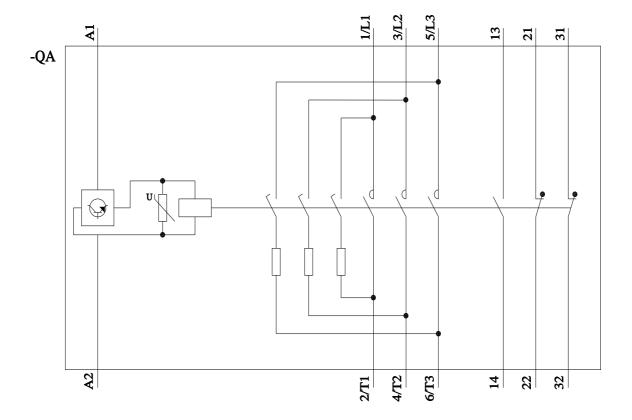
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2628-1NP35&objecttype=14&gridview=view1











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