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, size: S0

product brand name	SIRIUS
product designation	capacitor contactors
product type designation	3RT26
General technical data	
size of contactor	SO
product extension auxiliary switch	No
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	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)	
 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 $^\circ\mathrm{C}$ rated value	47.6 A
operating reactive power at AC-6b	
• at 230 V at 50/60 Hz at ambient temperature 60 °C rated	6 19 kvar

value	
 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 rated value 	19 57 kvar
no-load switching frequency	
• at AC	500 1/h
• at DC	500 1/h
operating frequency at AC-6b	
• 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
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
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	
• at 230 V • at 400 V	6 A
• at 400 V • at 690 V	3 A 1 A
operational current of auxiliary contacts at DC-13	
• at 24 V	6 A
• at 60 V	2 A
• at 110 V	1A
• 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 type of	gG: 100 A (690 V, 50 kA)
coordination 1 required	
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
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	
 with side-by-side mounting at the side 	10 mm
 for grounded parts at the side 	10 mm
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	screw-type terminals
for main current circuitfor auxiliary and control circuit	screw-type terminals screw-type terminals
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil 	screw-type terminals
 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
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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 1x (2.5 25 mm ²) 2x (1 2.5 mm ²), 2x (2.5 10 mm ²)
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 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 solid 	screw-type terminals Screw-type terminals 1x (2.5 25 mm ²) 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) 1x (2.5 25 mm ²) 1x (2.5 16 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ² 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
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touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front						
Certificates/ approvals						
General Product App	roval				EMC	
(SP)	<u>Confirmation</u>			EAC	RCM	
Declaration of Confor	mity	Test Certificates	Marine / Shipping			
CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	B U R E A U VERITAS	Llovd's Register uts	RINA	
other		Dangerous Good				
<u>Confirmation</u>		Transport Information				
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=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

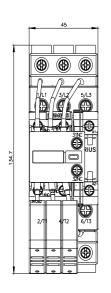
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

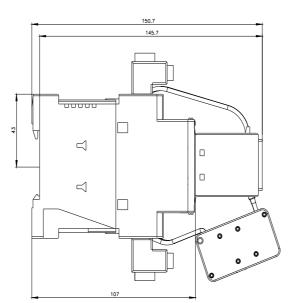
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2628-1NP35&lang=en

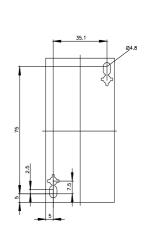
Characteristic: Tripping characteristics, I²t, Let-through current

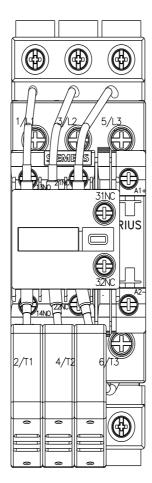
https://support.industry.siemens.com/cs/ww/en/ps/3RT26

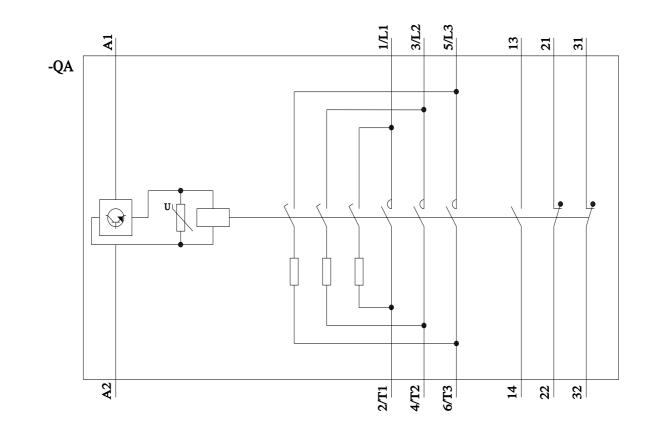
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2628-1NP35&objecttype=14&gridview=view1











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