## SIEMENS

## Data sheet

## 3RT2628-1AF05



capacitor contactor, AC-6b 33 kVAr, / 400 V, 3-pole, 110 V AC, 50 Hz, 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	
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.8 W
<ul> <li>without load current share typical</li> </ul>	2.5 W
type of calculation of power loss depending on pole	quadratic
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 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
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 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
Weight	0.665 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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	
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

Lobol Available from all current directil         3           number of NC contacts for main current directil         3           number of NC contacts for main contacts         0           Operating accents for main contacts         1           a 200 at 5000 Pc at ambient temperature 60 °C rated         -           et al. 200 via 5000 Pc at ambient temperature 60 °C rated         -           et al. 00 via 5000 Pc at ambient temperature 60 °C rated         -           et al. 00 via 5000 Pc at ambient temperature 60 °C rated         -           et al. 00 via 5000 Pc at ambient temperature 60 °C rated         -           et al. 00 via 5000 Pc at ambient temperature 60 °C rated         -           et al. 00 via 5000 Pc at ambient temperature 60 °C rated         -           et al. 00 vir assitum         100 vib.           et al. 00 vir assitum         100 vib.           et al. 00 virassitum         100 vib.           et al. 00 virassitum         100 vib.           et al. 00 virassitum         20 virassitum	Clobal Warming Datantial (CO2 and after and of life	0.226 kg
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• at 600 V maximum     45 1/h       • at 690 V maximum     38 1/h       • at 690 V maximum     38 1/h       • at 690 V maximum     AC       • type of voltage     AC       • otrotto circuit (Control     AC       • at 50 Hz rated value     110 V       • at 50 Hz rated value     50 Hz       • operating range factor control supply voltage rated value of magnet coli at AC     0.8 1.1       • at 50 Hz     0.8 1.1       apparent pick-up power of magnet coli at AC     77 VA       inductive power factor with closing power of the coli     0.8 4.1       apparent pick-up power factor with closing power of the coli     0.8 4.0 ms       • at AC     8 40 ms       • at AC     9 4 16 ms       • at AC     7 mA       Atxitiary circuit     10 10 ms       • at AC at 230 V maximum permissible     7 mA       Auxitiary circuit     1       number of NC contacts for auxillary contacts     2       • attachable     0       • instantaneous contact     2       • attachable     0       • instantaneous contact     1       • attachable     0       • instant	● at 480 V maximum	70 1/h
• at 690 V maximum     36 1/h       Control circuit/ Control     Image: Control supply voltage     AC       type of voltage of the control supply voltage at AC     AC       • at 50 Hz rated value     110 V       Control supply voltage frequency     50 Hz       • at 50 Hz rated value     50 Hz       operating range factor control supply voltage rated value of magnet coil at AC     77 VA       inductive power factor with closing power of the coil     0.82       apparent holding power of magnet coil at AC     98 VA       inductive power factor with closing power of the coil     0.25       closing delay     -       • at AC     840 ms       opening delay     -       • at AC     840 ms       opening film     1010 ms       control version of the switch operating mechanism     Standard A1 - A2       residual current of the electronics for control with signal cop     2       - at Ac at 230 V maximum permissible     7 mA       Auxiliary circuit     2       number of NC contacts for auxiliary contacts     2       number of NC contacts for auxiliary contacts     1       - at 230 V     0       - at 230 V     6 A       - at	● at 500 V maximum	65 1/h
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• at AC4 16 msarcing time10 10 mscontrol version of the switch operating mechanismStandard A1 - A2residual current of the electronics for control with signal <0>·• at AC at 230 V maximum permissible7 mAAuxiliary circuit0number of NC contacts for auxiliary contacts2• attachable0• instantaneous contact2• attachable0• instantaneous contact1• attachable0• instantaneous contact1• operational current of auxiliary contacts at AC-12 maximum10 A• operational current of auxiliary contacts at AC-156 A• at 400 V3 A• at 690 V1 A		
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control version of the switch operating mechanism       Standard A1 - A2         residual current of the electronics for control with signal <0> <ul> <li>at AC at 230 V maximum permissible</li> <li>T mA</li> </ul> Auxiliary circuit       7 mA         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         • 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 A         • at 400 V       3 A         • at 690 V       1 A         operational current of auxiliary contacts at DC-13       1		
residual current of the electronics for control with signal <0>7 mA• at AC at 230 V maximum permissible7 mAAuxiliary circuit2number of NC contacts for auxiliary contacts2• attachable0• instantaneous contact2number of NO contacts for auxiliary contacts1• attachable0• instantaneous contact1• attachable0• instantaneous contact1• attachable0• instantaneous contact1• operational current of auxiliary contacts at AC-12 maximum10 A• operational current of auxiliary contacts at AC-156 A• at 400 V3 A• at 690 V1 A• operational current of auxiliary contacts at DC-131		
<0>7 mAAuxiliary circuit7 mAAuxiliary circuit2number of NC contacts for auxiliary contacts2attachable0instantaneous contact2number of NO contacts for auxiliary contacts1ourber of NO contacts for auxiliary contacts at AC-12 maximum10 Aoperational current of auxiliary contacts at AC-156 Ai at 230 V6 Ai at 400 V3 Ai at 690 V1 Aoperational current of auxiliary contacts at DC-131		Stanuaru AT - Az
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         • at 230 V       10 A         • at 230 V       6 A         • at 400 V       3 A         • at 690 V       1 A         • at 690 V       1 A	<0>	7 mA
number of NC contacts for auxiliary contacts2• attachable0• instantaneous contact2number of NO contacts for auxiliary contacts1• attachable0• instantaneous contact1• attachable0• instantaneous contact1operational current of auxiliary contacts at AC-12 maximum10 Aoperational current of auxiliary contacts at AC-156 A• at 230 V6 A• at 400 V3 A• at 690 V1 Aoperational current of auxiliary contacts at DC-131		
• attachable0• instantaneous contact2number of NO contacts for auxiliary contacts1• attachable0• instantaneous contact1• operational current of auxiliary contacts at AC-12 maximum10 A• operational current of auxiliary contacts at AC-15•• at 230 V6 A• at 400 V3 A• at 690 V1 A• operational current of auxiliary contacts at DC-13•		2
• instantaneous contact2number of NO contacts for auxiliary contacts1• attachable0• instantaneous contact1operational current of auxiliary contacts at AC-12 maximum10 Aoperational current of auxiliary contacts at AC-15•• at 230 V6 A• at 400 V3 A• at 690 V1 Aoperational current of auxiliary contacts at DC-13•	-	
number of NO contacts for auxiliary contacts1• attachable0• instantaneous contact1operational current of auxiliary contacts at AC-12 maximum10 Aoperational current of auxiliary contacts at AC-15• at 230 V• at 230 V6 A• at 400 V3 A• at 690 V1 Aoperational current of auxiliary contacts at DC-13• at C-13		
• attachable0• instantaneous contact1operational current of auxiliary contacts at AC-12 maximum10 Aoperational current of auxiliary contacts at AC-15-• at 230 V6 A• at 400 V3 A• at 690 V1 Aoperational current of auxiliary contacts at DC-13-		
• instantaneous contact1operational current of auxiliary contacts at AC-12 maximum10 Aoperational current of auxiliary contacts at AC-156 A• at 230 V6 A• at 400 V3 A• at 690 V1 Aoperational current of auxiliary contacts at DC-13	-	
operational current of auxiliary contacts at AC-12 maximum10 Aoperational current of auxiliary contacts at AC-156 A• at 230 V6 A• at 400 V3 A• at 690 V1 Aoperational current of auxiliary contacts at DC-13		
operational current of auxiliary contacts at AC-15• at 230 V6 A• at 400 V3 A• at 690 V1 Aoperational current of auxiliary contacts at DC-13		
• at 230 V       6 A         • at 400 V       3 A         • at 690 V       1 A		10 A
• at 400 V3 A• at 690 V1 Aoperational current of auxiliary contacts at DC-13Image: Contact of auxiliary contacts at DC-13		
at 690 V 1 A Operational current of auxiliary contacts at DC-13	• at 230 V	
operational current of auxiliary contacts at DC-13	• at 400 V	3 A
	• at 690 V	1 A
• at 24 V 6 A	operational current of auxiliary contacts at DC-13	
	• at 24 V	6 A

2 A I A 0.9 A 0.3 A 0.00000001
0.9 A 0.3 A
).3 A
.0000001
A600 / Q600
gG: 100 A (690 V, 50 kA)
gG: 10 A (500 V, 1 kA)
+/-180° rotation possible on vertical mounting surface; can be tilted forward and packward by +/- 22.5° on vertical mounting surface
screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
150 mm
15 mm
155 mm
10 mm
10 mm
screw-type terminals
screw-type terminals
Screw-type terminals
Screw-type terminals
lx (2.5 25 mm²)
2x (1 2.5 mm²), 2x (2.5 10 mm²)
lx (2,5 25 mm <sup>2</sup> )
lx (2.5 16 mm <sup>2</sup> )
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 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )
2x (20 16), 2x (18 14), 2x 12
1x 16 mm <sup>2</sup>
lx 25 mm <sup>2</sup>
0 4
No
No
P20
inger-safe, for vertical contact from the front

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Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2628-1AF05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2628-1AF05

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

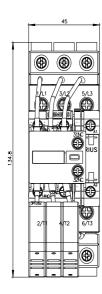
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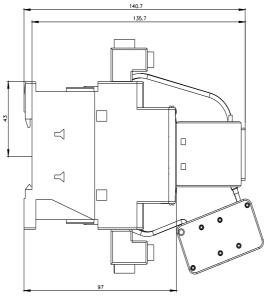
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

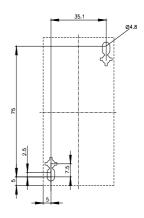
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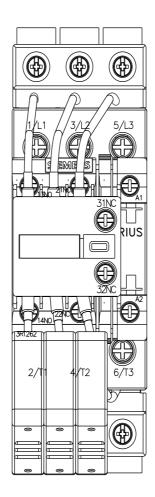
Further characteristics (e.g. electrical endurance, switching frequency)

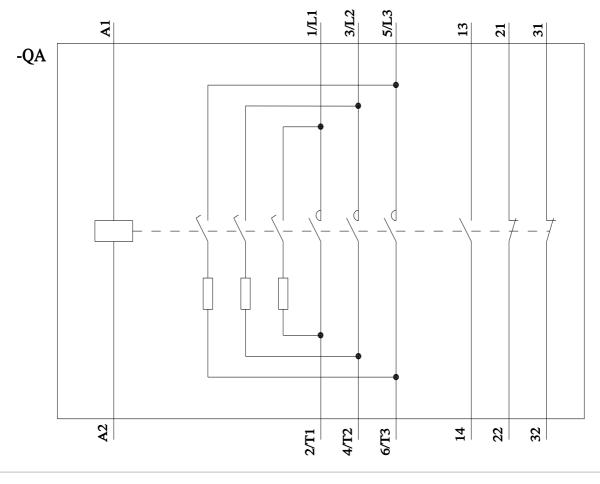
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