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	
● at AC in hot operating state per pole	3.8 W
● without load current share typical	2.5 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	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)	
● 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
Weight	0.67 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	
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	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 rated value	19 ... 57 kvar
no-load switching frequency	
● at AC	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
type of voltage of the control supply voltage	AC
control supply voltage at AC	
● at 50 Hz rated value	110 V
control supply voltage frequency	
● 1 rated value	50 Hz
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 ... 1.1
apparent pick-up power 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	9.8 VA
inductive power factor with the holding power of the coil	0.25
closing delay	
● at AC	8 ... 40 ms
opening delay	
● at AC	4 ... 16 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	6 A
● at 400 V	3 A
● at 690 V	1 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	0.00000001
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 coordination 1 required	gG: 100 A (690 V, 50 kA)
● 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	155 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 auxiliary and control circuit	screw-type terminals
● at contactor for auxiliary contacts	Screw-type terminals
● of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
● solid	1x (2.5 ... 25 mm²)
● stranded	2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)
● solid or stranded	1x (2,5 ... 25 mm²)
● finely stranded with core end processing	1x (2.5 ... 16 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 16 mm²
● at 60 °C	1x 25 mm²
AWG number as coded connectable conductor cross section for main contacts	10 ... 4
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	

Confirmation

EMV	Test Certificates	Marine / Shipping	other

RCM

Type Test Certific-ates/Test Report

BUREAU VERITAS

RINA

Miscellaneous

Confirmation

Dangerous goods	Environment

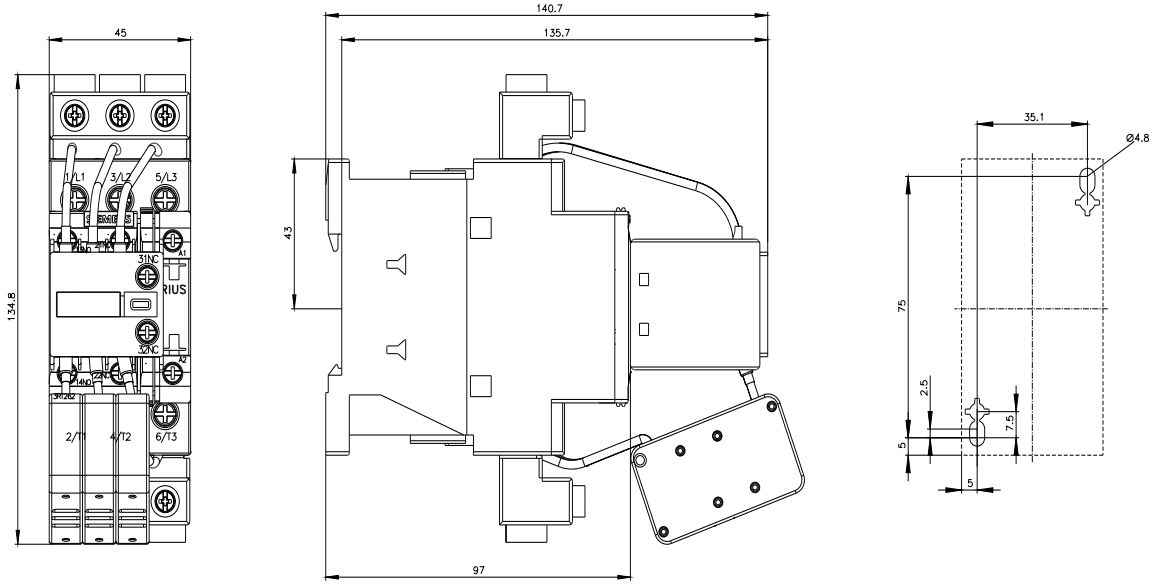
Transport Information

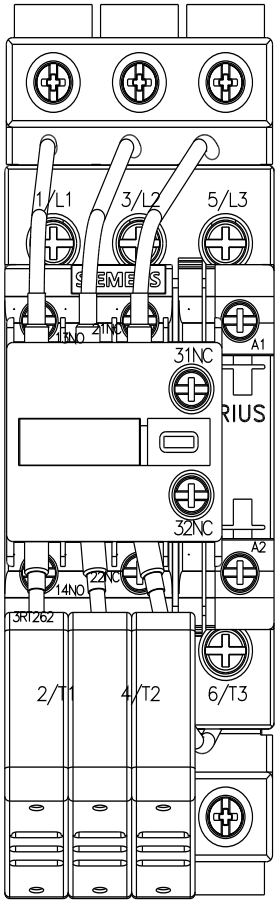
EPD

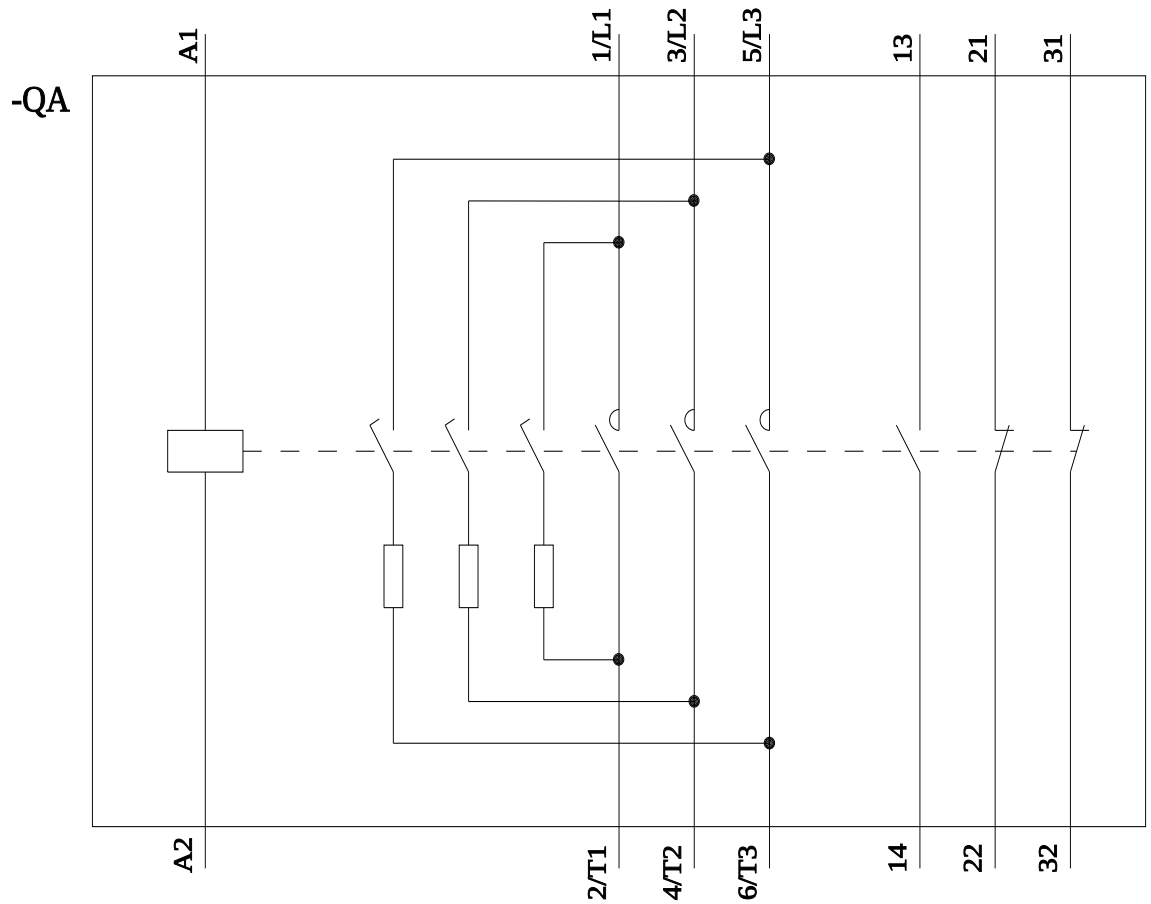
Environmental Con-firmations

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=3RT2628-1AF05
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2628-1AF05
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, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2628-1AF05&lang=en
Characteristic: Tripping characteristics, I²t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3RT2628-1AF05/char
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2628-1AF05&objecttype=14&gridview=view1







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