



capacitor contactor, AC-6b 75 kVA_r, / 400 V, 3-pole, 110 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3

product brand name	SIRIUS
product designation	capacitor contactors
product type designation	3RT26
General technical data	
size of contactor	S3
product extension auxiliary switch	Yes
power loss [W] for rated value of the current - at AC in hot operating state per pole - without load current share typical	5.3 W 7.3 W
type of calculation of power loss depending on pole	quadratic
insulation voltage - of main circuit with degree of pollution 3 rated value - of auxiliary circuit with degree of pollution 3 rated value	1 000 V 690 V
surge voltage resistance - of main circuit rated value - of auxiliary circuit rated value	8 kV 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	10.3g / 5 ms, 6.g / 10 ms
shock resistance with sine pulse at AC	16.3g / 5 ms, 10.g / 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)	06/26/2017
Weight	1.787 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature - during operation - during storage	-25 ... +60 °C -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 [CO ₂ eq] total	106 kg
global warming potential [CO ₂ eq] during manufacturing	2.47 kg
global warming potential [CO ₂ 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	108 A
operating reactive power at AC-6b - at 230 V at 50/60 Hz at ambient temperature 60 °C rated value - at 400 V at 50/60 Hz at ambient temperature 60 °C rated value - at 500 V at 50/60 Hz at ambient temperature 60 °C rated value - at 690 V at 50/60 Hz at ambient temperature 60 °C rated value	14 ... 43 kvar 25 ... 75 kvar 31 ... 94 kvar 43 ... 129 kvar
no-load switching frequency at AC	500 1/h
operating frequency at AC-6b - at 230 V maximum - at 240 V maximum - at 400 V maximum - at 480 V maximum - at 500 V maximum - at 600 V maximum - at 690 V maximum	200 1/h 200 1/h 100 1/h 60 1/h 60 1/h 40 1/h 40 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	296 VA
inductive power factor with closing power of the coil	0.61
apparent holding power of magnet coil at AC	19 VA
inductive power factor with the holding power of the coil	0.38
closing delay at AC	13 ... 50 ms
opening delay at AC	10 ... 21 ms
arcing time	10 ... 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts - attachable - instantaneous contact	1 1 1
number of NO contacts for auxiliary contacts - attachable - instantaneous contact	1 1 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 - at 690 V	6 A 3 A 0 A
operational current of auxiliary contacts at DC-13 - at 24 V - at 60 V - at 110 V	6 A 2 A 1 A

• at 125 V • at 220 V	0.9 A 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 miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA
design of the fuse link • for short-circuit protection of the main circuit with type of coordination 1 required	gG: 250 A (690 V, 50 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	140 mm
width	80 mm
depth	152 mm
required spacing • with side-by-side mounting at the side • for grounded parts at the side	10 mm 10 mm
Connections/ Terminals	
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil	screw-type terminals screw-type terminals Screw-type terminals Screw-type terminals
type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded • finely stranded with core end processing	2x (10 ... 16 mm²) 2x (10 ... 70 mm²), 1x (10 ... 70 mm²) 2x (10 ... 70 mm²), 1x (10 ... 70 mm²) 2x (10 ... 50 mm²)
type of connectable conductor cross-sections • for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts	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 mm²), 2x (0.75 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14), 2x 12
type of minimum connectable cross-sections for main contacts at AC-6b • at 40 °C • at 60 °C	1x 50 mm² 2x 35 mm²
AWG number as coded connectable conductor cross section for main contacts	8
Safety related data	
product function • mirror contact according to IEC 60947-4-1 • positively driven operation according to IEC 60947-5-1	No 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	



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EMV	Test Certificates	Maritime application	other
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[Type Test Certificates/Test Report](#)



[Confirmation](#)

Dangerous goods

Environment

[Transport Information](#)



[Environmental Confirmations](#)

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=3RT2645-1AF03>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2645-1AF03>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2645-1AF03>

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

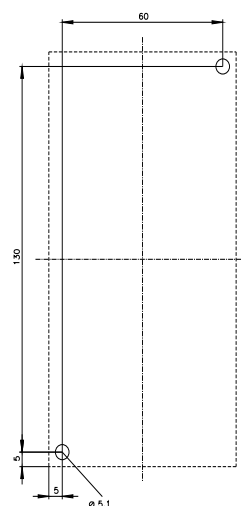
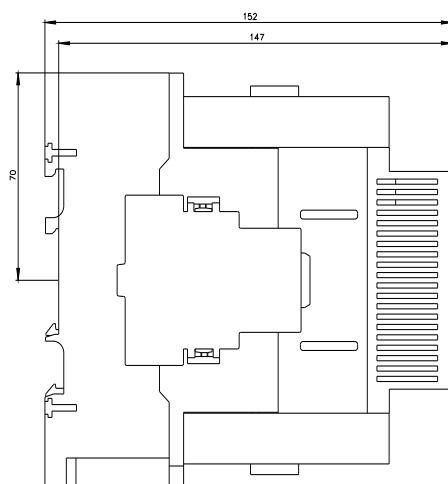
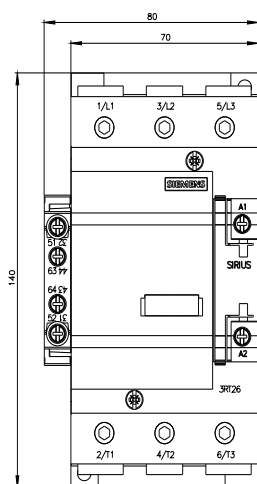
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2645-1AF03&lang=en

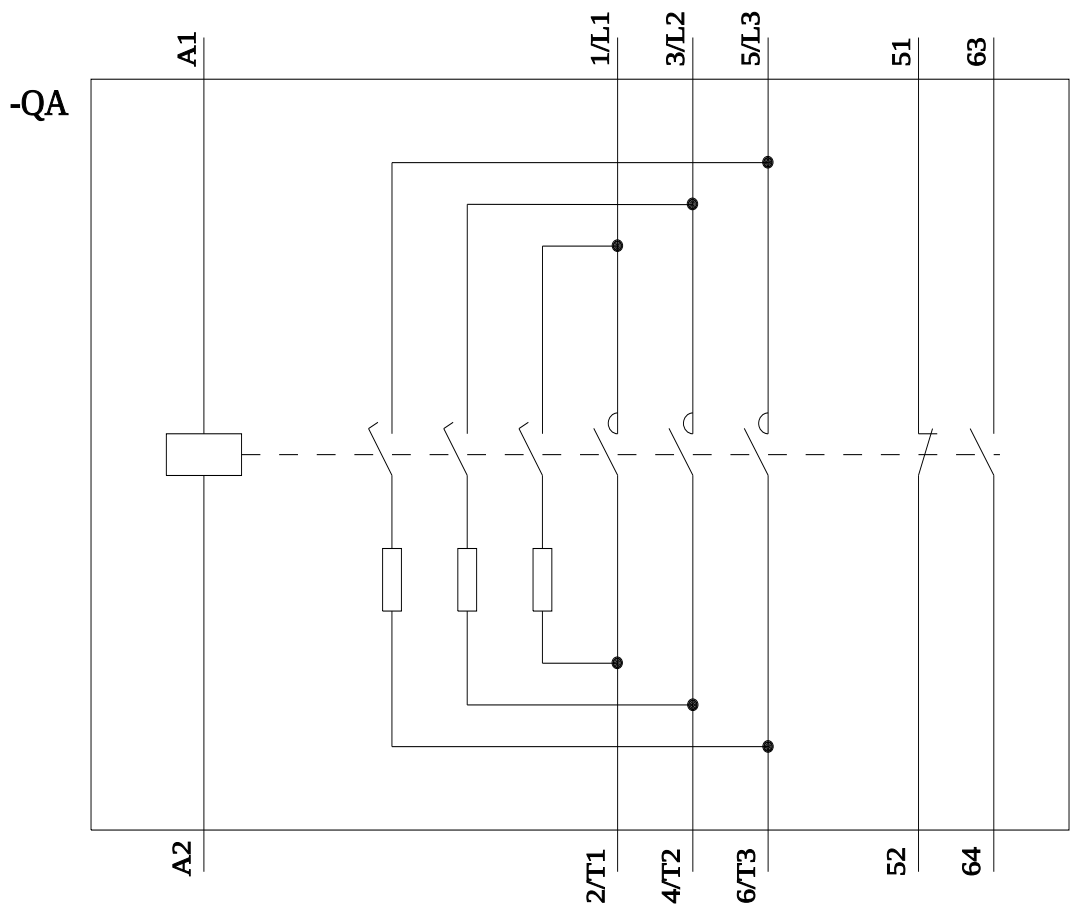
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2645-1AF03/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2645-1AF03&objecttype=14&gridview=view1>





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