SIEMENS

Data sheet 3RT2625-1NB35



capacitor contactor, AC-6b 16.7 kVAr, / 400 V, 3-pole, 21-28 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 2 NC, screw terminal, size: S0

product type designation as product extension auxiliary switch by the product extension auxiliary switch by the product extension auxiliary switch by the product extension auxiliary switch as product the product of auxiliary circuit with degree of pollution 3 rated value and the product with degree of pollution 3 rated value and the product of auxiliary circuit with degree of pollution 3 rated value and the product of auxiliary circuit rated value and the product of auxiliary switch block typical allowed the product of auxiliary switch block typical allowed by the product of auxiliary switch block typical allowed by the product of auxiliary switch block typical allowed by the product of auxiliary switch block typical auxiliary switch block typical allowed by the product of auxiliary switch block typical auxiliary switch block typical allowed by the product of the contactor with added auxiliary switch block typical allowed by the product of the contactor with added auxiliary switch block typical and the product of the contact of the contact of auxiliary switch block typical a	product brand name	SIRIUS
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of main circuit rated value of auxillary circuit rated value of auxillary circuit rated value of auxillary circuit rated value aximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 shock resistance at rectangular impulse at AC	of auxiliary circuit with degree of pollution 3 rated value	690 V
of auxiliary circuit rated value maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 shock resistance at rectangular impulse at AC at DC	surge voltage resistance	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse at AC at DC 10g / 5 ms, 7,5g / 10 ms shock resistance with sine pulse at AC 11,8g / 5 ms, 7,4g / 10 ms 15g / 5 ms, 10g / 10 ms to the contactor with added auxiliary switch block typical electrical endurance (operating cycles) of the contactor with added auxiliary switch block typical electrical endurance (operating cycles) reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of utring operation of utring operation of utring operation of utring operation relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature of °C related value operating reactive power at AC-6b	of main circuit rated value	6 kV
coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC • at DC shock resistance with sine pulse • at AC • at DC 10g / 5 ms, 7,5g / 10 ms • at DC shock resistance with sine pulse • at AC • at DC 11,8g / 5 ms, 7,4g / 10 ms • at DC mechanical service life (operating cycles) • of the contactor with added auxiliary switch block typical electrical endurance (operating cycles) reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NC contacts for main contacts 10 °C rated value operating reactive power at AC-6b	of auxiliary circuit rated value	6 kV
at AC at DC at DC at AC		400 V
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at AC at DC at DC at Dg / 5 ms, 7,4g / 10 ms mechanical service life (operating cycles) of the contactor with added auxiliary switch block typical electrical endurance (operating cycles) 200 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oldring operation during operation vertical time in the individual maximum and in circuit number of poles for main current circuit number of NC contacts for main contacts operating reactive power at AC-6b at 690 V at ambient temperature of the contacts power at AC-6b of the contacts for main current circuit operating reactive power at AC-6b	• at DC	10g / 5 ms, 7,5g / 10 ms
● at DC mechanical service life (operating cycles) ● of the contactor with added auxiliary switch block typical electrical endurance (operating cycles) reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation ● during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of NO contacts for main current circuit number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	shock resistance with sine pulse	
mechanical service life (operating cycles) • of the contactor with added auxiliary switch block typical electrical endurance (operating cycles) reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of Poles for main current circuit number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	• at AC	11,8g / 5 ms, 7,4g / 10 ms
of the contactor with added auxiliary switch block typical electrical endurance (operating cycles) 200 000 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 o during operation o during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit 3 number of NO contacts for main contacts 0 operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	• at DC	15g / 5 ms, 10g / 10 ms
electrical endurance (operating cycles) reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	mechanical service life (operating cycles)	
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Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NC contacts for main contacts number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	electrical endurance (operating cycles)	200 000
installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum ambient temperature • during operation • during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	Substance Prohibitance (Date)	05/01/2014
ambient temperature • during operation • during storage • during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	Ambient conditions	
 ● during operation -25 +60 °C Iterative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b 	installation altitude at height above sea level maximum	2 000 m
● during storage relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 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 operating reactive power at AC-6b	ambient temperature	
relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	during operation	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	during storage	-55 +80 °C
maximum Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	relative humidity minimum	10 %
number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b		95 %
number of NO contacts for main contacts number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	Main circuit	
number of NC contacts for main contacts operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	number of poles for main current circuit	3
operational current at AC-6b at 690 V at ambient temperature 60 °C rated value operating reactive power at AC-6b	number of NO contacts for main contacts	3
60 °C rated value operating reactive power at AC-6b	number of NC contacts for main contacts	0
		24 A
• at 230 V at 50/60 Hz at ambient temperature 60 °C rated 3 9.6 kvar	operating reactive power at AC-6b	
	• at 230 V at 50/60 Hz at ambient temperature 60 °C rated	3 9.6 kvar

value	
 at 400 V at 50/60 Hz at ambient temperature 60 °C rated value 	6 16.7 kvar
• at 500 V at 50/60 Hz at ambient temperature 60 °C rated	7 21 kvar
value	7 21 RVGI
• at 690 V at 50/60 Hz at ambient temperature 60 °C rated	10 29 kvar
value	
no-load switching frequency	
• at AC	500 1/h
• at DC	500 1/h
operating frequency at AC-6b	400.4/
• at 230 V maximum	180 1/h
• at 240 V maximum	180 1/h
• at 400 V maximum	180 1/h
• at 480 V maximum	180 1/h
• at 500 V maximum	180 1/h
at 600 V maximumat 690 V maximum	180 1/h
at 690 V maximum Control circuit/ Control	150 1/h
	ACIDO
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	21 28 V
at 50 Hz rated value at 60 Hz rated value	21 28 V
• at 60 Hz rated value control supply voltage frequency	Z 1 ZU V
1 rated value	50 Hz
2 rated value	60 Hz
control supply voltage at DC	00 112
• rated value	21 28 V
operating range factor control supply voltage rated value of	21 20 V
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	3 A
duration of inrush current peak	30 µs
locked-rotor current mean value	0.3 A
locked-rotor current peak	0.52 A
duration of locked-rotor current	180 ms
holding current mean value	45 mA
apparent pick-up power of magnet coil at AC	6.7 VA
inductive power factor with closing power of the coil	0.98
apparent holding power of magnet coil at AC	2 VA
inductive power factor with the holding power of the coil	0.86
closing power of magnet coil at DC	5.9 W
holding power of magnet coil at DC	1.4 W
closing delay	
• at AC	50 80 ms
• at DC	50 80 ms
opening delay	20 50 22
• 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
• at DC at 24 V maximum permissible	16 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	0.0000001
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	A600 / Q600
	7000 / 2000
Short-circuit protection	
design of the fuse link	~C. FO A (COO)/ FO LA)
 for short-circuit protection of the main circuit with type of coordination 1 required 	gG: 50 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
mounting position	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	135 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 auxiliary and control circuit at contractor for auxiliary contractor	screw-type terminals
at contactor for auxiliary contacts of magnet coil.	Screw-type terminals
of magnet coil The property of appropriately appropr	Screw-type terminals
type of connectable conductor cross-sections for main contacts	0(4 0.5
• solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
• stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 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 6 mm²
• at 60 °C	1x 10 mm², 2x 6 mm²
AWG number as coded connectable conductor cross section for main contacts	16 8
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	No
 positively driven operation according to IEC 60947-5-1 	No

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

Certificates/ approvals

General Product Approval

EMC





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







other

Dangerous Good

Confirmation



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=3RT2625-1NB35

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2625-1NB35

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2625-1NB35

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

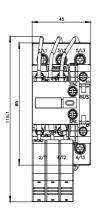
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2625-1NB35&lang=en

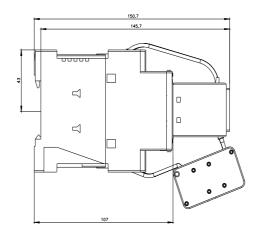
 $\label{lem:characteristic:} \textbf{Characteristic: Tripping characteristics, } \textbf{I}^{2}\textbf{t, Let-through current}$

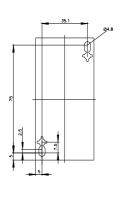
https://support.industry.siemens.com/cs/ww/en/ps/3RT2625-1NB35/char

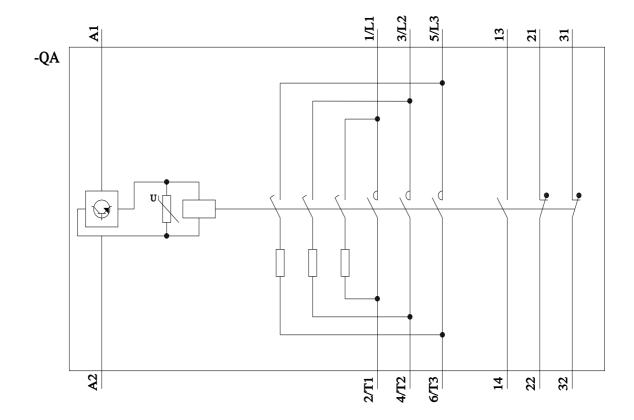
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2625-1NB35&objecttype=14&gridview=view1









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