SIEMENS

Data sheet

3RT2628-1NB35



Capacitor contactor, AC-6b 33 kVAr, / 400 V 1 NO + 2 NC, 50-60 Hz AC 21-28 V DC 3-pole, Size S0 screw terminal

needuct brand name	SIRIUS		
product brand name product designation	capacitor contactors		
product type designation	3RT26		
General technical data	51(120		
size of contactor	S0		
	No		
product extension auxiliary switch	NO		
insulation voltage	690 V		
 of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated 	690 V		
value	030 V		
surge voltage resistance			
 of main circuit rated value 	6 kV		
 of auxiliary circuit rated value 	6 kV		
maximum permissible voltage for safe isolation 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 (switching cycles)			
 of the contactor with added auxiliary switch block typical 	3 000 000		
electrical endurance (switching 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 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-B0 e 19 kvar and 400 V 44 5090 ht 24 at ambient temperature 60 °C 11 33 kvar and 400 V 44 5090 ht 24 at ambient temperature 60 °C 14 41 kvar and 400 V 44 5090 ht 24 at ambient temperature 60 °C 14 41 kvar and 400 V 44 5090 ht 24 at ambient temperature 60 °C 19 57 kvar and 40 value 500 1/h and 40 value 100 1/h and 40 value 10 and 1/h Control supply valtage at AC </th <th></th> <th></th>		
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holding power of magnet coil at DC 1.4 W closing delay 50 70 ms • at AC 50 70 ms • at DC 50 70 ms opening delay 50 70 ms • at AC 30 50 ms • at DC 30 50 ms		5.9 W
closing delay 50 70 ms • at AC 50 70 ms • at DC 50 70 ms opening delay 50 70 ms • at AC 30 50 ms • at DC 30 50 ms		
 at AC at DC 50 70 ms 50 70 ms opening delay at AC at DC 30 50 ms at DC 30 50 ms at DC arcing time 10 10 ms control version of the switch operating mechanism Standard A1 - A2 		
• at DC50 70 msopening delay-• at AC30 50 ms• at DC30 50 msarcing time10 10 mscontrol version of the switch operating mechanismStandard A1 - A2residual current of the electronics for control with		50 70 ms
• 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 Standard A1 - A2	● at DC	
• 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 Standard A1 - A2	opening delay	
arcing time 10 10 ms control version of the switch operating mechanism Standard A1 - A2 residual current of the electronics for control with Standard A1 - A2		30 50 ms
control version of the switch operating mechanism Standard A1 - A2 residual current of the electronics for control with Standard A1 - A2	● at DC	30 50 ms
residual current of the electronics for control with	arcing time	10 10 ms
	control version of the switch operating mechanism	Standard A1 - A2

• 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			
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			
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 standard mounting 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 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 mm ²)			
— stranded	2x (1 2.5 mm ²), 2x (2.5 10 mm ²)			
— solid or stranded	1x (2,5 25 mm ²)			
 finely stranded with core end processing 	1x (2.5 16 mm ²)			
at AWG cables for main contacts	1x (10 4)			
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)			
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12			
type of minimum connectable cross-section for main contacts at AC-6b				

• at 40 °C			1x 10	6 mm²			
● at 60 °C			1x 2	5 mm²			
AWG number as co section for main cor	ded connectable conduct ntacts	or cross	10	. 4			
Safety related data							
product function							
 mirror contact 	according to IEC 60947-	-4-1	No				
 positively driv 5-1 	en operation according to	DIEC 60947-	No				
protection class IP 60529	protection class IP on the front according to IEC		IP20	IP20			
touch protection o	n the front according to	IEC 60529	finge	er-safe, for vertical conta	act from the front		
Certificates/ approv	als						
General Product A	Approval					EMC	
(SP) CM	<u>Confirmation</u>)		EHC	RCM	
Declaration of Co	nformity	Test Certifica	ates	Marine / Shipping		other	
UK CA	EG-Konf.	ates/Test Re			RINA		
other	Dangerous Good						
UDE VDE	Transport Informa- tion						
Further information							
https://www.siemen: Industry Mall (Onli https://mall.industry Cax online generation	ne ordering system) .siemens.com/mall/en/en/	/Catalog/produc	:t?mlfb=		<u>28-1NB35</u>		
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Characteristic: Tri	on.siemens.com/bilddb/c pping characteristics, l ² stry.siemens.com/cs/ww/e	t, Let-through	current	1			
Further characteris	stics (e.g. electrical end	urance, switch	ning fre	quency)	3 <u>5&objectty</u> pe=14&ari	dview=view1	

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