SIEMENS

Data sheet

3TF6933-1DB4

Contactor, Size 14, 3-pole, AC-3, 450 kW, 400/380 V (690 V) Auxiliary switch 33 (3 NO+3 NC) with reversing contactor 3TC4417-4A and series resistor DC economy circuit 24 V DC



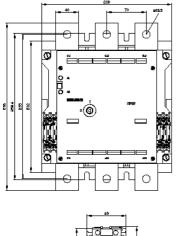
product type designation 3TF6 General technical data	product designation	Vacuum contactor
size of contactor 14 product extension No • function module for communication No • auxiliary switch No insulation voltage • of main circuit with degree of pollution 3 rated value • of main circuit with degree of pollution 3 rated value 1000 V • of main circuit with degree of pollution 3 rated value 8 kV • of main circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 8 kV • between auxiliary and auxiliary circuit 300 V • between main and auxiliary circuit 300 V • between with sine pulse 8.6g / 5 ms, 5.1g / 10 ms • at DC 13.5 g / 5 ms, 7.8 g / 10 ms mechanical service life (switching cycles) 0.103.2017 00:00:00 • of contactor typical 5.000 000 reference code act, to IEC 81346-2 Q Substance Prohibitance (Date) 2.00 m ambient temperature -4.55 °C • during	product type designation	3TF6
product extension No • function module for communication No • auxiliary switch No Insulation voltage 1000 V • of main circuit with degree of pollution 3 rated value 1000 V • of auxiliary circuit with degree of pollution 3 rated 690 V surge voltage resistance 6 kV • of main circuit rated value 6 kV maximum permissible voltage for safe Isolation in networks with grounded star point 500 V • between auxiliary circuit 300 V • between main and auxiliary circuit 500 V • at DC 8.6g / 5 ms, 5.1g / 10 ms • at DC 8.6g / 5 ms, 7.8 g / 10 ms • at DC 5 000 000 • of contactor typical 5 000 000 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 01.03.2017 00:00:00 Ambient temperature 40/ring operation • during operation -25 +55 °C • during operation 10 % relative humidity minimum 10 % relative humidity during operation 10 95 % relative humidity during operation 10 95 %	General technical data	
• function module for communication No • auxiliary switch No • of main circuit with degree of pollution 3 rated value 1 000 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of main circuit with degree of pollution 3 rated value 690 V • of main circuit rated value 8 kV • of auxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation in networks with grounded star point 700 V • between auxiliary circuit 300 V • between auxiliary circuit 300 V • at DC 8.6g / 5 ms, 5.1g / 10 ms • at DC 8.6g / 5 ms, 7.8 g / 10 ms • at DC 5 000 000 • at DC 5 000 000 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 0.03.2017 00:00:00 Ambient conditions 2 000 m ambient temperature 2 000 m • during operation -25 +55 °C • during operation 10 95 % relative humidity minimum 10 % relative humidity nduring operation 10 95 % <td>size of contactor</td> <td>14</td>	size of contactor	14
• auxiliary switch No insulation voltage insulation voltage • of main circuit with degree of pollution 3 rated value 1 000 V • of auxiliary circuit with degree of pollution 3 rated value 1 000 V • of main circuit rated value 6 80 V • of main circuit rated value 8 kV • of maxiliary circuit rated value 6 kV maximum permissible voltage for safe isolation in networks with grounded star point 500 V • between auxiliary and auxiliary circuit 300 V • between main and auxiliary circuit 300 V • at DC 8.6g / 5 ms, 5.1g / 10 ms • at DC 13.5 g / 5 ms, 7.8 g / 10 ms • of contactor typical 5000 000 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 01.03.2017 00:00:00 Ambient conditions 25 +55 °C • during poration -25 +55 °C • during storage -55 +80 °C • relative humidity minimum 10 % relative humidity during operation 10	product extension	
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Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +55 °C • during operation -25 +55 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity during operation 10 95 % relative humidity at 55 °C acc. to IEC 60068-2-30 maximum 95 % Main circuit 3	reference code acc. to IEC 81346-2	Q
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• during storage -55 +80 °C relative humidity minimum 10 % relative humidity during operation 10 95 % relative humidity at 55 °C acc. to IEC 60068-2-30 maximum 95 % Main circuit 3	ambient temperature	
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relative humidity during operation 10 95 % relative humidity at 55 °C acc. to IEC 60068-2-30 maximum 95 % Main circuit 3	during storage	-55 +80 °C
relative humidity at 55 °C acc. to IEC 60068-2-30 95 % Main circuit 95 % number of poles for main current circuit 3	relative humidity minimum	10 %
maximum Main circuit number of poles for main current circuit 3	relative humidity during operation	10 95 %
number of poles for main current circuit 3		95 %
•	Main circuit	
number of NO contacts for main contacts 3	number of poles for main current circuit	3
	number of NO contacts for main contacts	3

type of voltage for main current circuitACoperating voltage • at AC-3 rated value maximum690 Voperational current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value910 A- up to 690 V at ambient temperature 55 °C rated value850 A- up to 1000 V at ambient temperature 55 °C rated value800 A- up to 1000 V at ambient temperature 55 °C rated value800 A- up to 1000 V at ambient temperature 55 °C rated value800 A- at AC-3 — at 400 V rated value820 A	
operating voltage • at AC-3 rated value maximum690 Voperational current • at AC-1690 V- up to 690 V at ambient temperature 40 °C rated value910 A- up to 690 V at ambient temperature 55 °C rated value850 A- up to 1000 V at ambient temperature 55 °C rated value800 A- up to 1000 V at ambient temperature 55 °C rated value800 A- up to 1000 V at ambient temperature 55 °C rated value820 A	
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rated value 	
rated value	
 rated value at AC-3 at 400 V rated value 820 A 	
- at 400 V rated value 820 A	
- at 500 V rated value 820 A	
- at 690 V rated value 820 A	
- at 1000 V rated value 580 A	
• at AC-4 at 400 V rated value 690 A	
● at AC-6a	
— up to 500 V for current peak value n=20 rated 675 A value	
— up to 690 V for current peak value n=20 rated 675 A value	
— up to 1000 V for current peak value n=20 rated 580 A value	
• at AC-6a	
— up to 400 V for current peak value n=30 rated 450 A value	
— up to 500 V for current peak value n=30 rated 450 A value	
— up to 690 V for current peak value n=30 rated 450 A value	
— up to 1000 V for current peak value n=30 rated value 450 A	
connectable conductor cross-section in main circuit at AC-1	
at 40 °C minimum permissible 600 mm ²	
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value 360 A	
• at 690 V rated value 360 A	
operating power	
• at AC-3	
- at 230 V rated value 260 kW	
- at 400 V rated value 450 kW	
- at 690 V rated value 800 kW	
— at 1000 V rated value 800 kW	
operating apparent power at AC-6a	
• up to 400 V for current peak value n=20 rated value 445 kV·A	
• up to 690 V for current peak value n=20 rated value 771 kV·A	
• up to 1000 V for current peak value n=20 rated 1 003 kV·A value	
operating apparent power at AC-6a	
• up to 400 V for current peak value n=30 rated value 297 kV·A	
• up to 690 V for current peak value n=30 rated value 514 kV·A	
• up to 1000 V for current peak value n=30 rated 778 kV·A value	
thermal short-time current limited to 10 s 7 000 A	
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor 70 W	
no-load switching frequency at AC 1 000 1/h	
operating frequency	

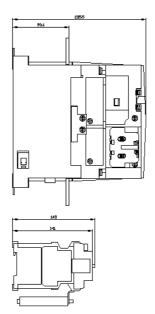
● at AC-1 maximum	700 1/h
• at AC-2 at AC-3 maximum	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	20
• rated value	24 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
 initial value 	0.8
full-scale value	1.1
closing power of magnet coil at DC	960 W
holding power of magnet coil at DC	20.6 W
closing delay	
• at DC	86 280 ms
opening delay	10 05
• at DC	19 25 ms 10 15 ms
arcing time control version of the switch operating mechanism	Standard A1 - A2
	Stanuaru AT - Az
Auxiliary circuit	
number of NC contacts for auxiliary contacts attachable 	3
	3
instantaneous contact	3
number of NO contacts for auxiliary contacts	2
attachable	3
instantaneous contact	3
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	5.6 A
at 400 V rated value	3.6 A
at 500 V rated value	2.5 A
at 690 V rated value	2.3 A
operational current at DC-12 at 440 V rated value	0.33 A
operational current at DC-12 • at 24 V rated value	10.4
at 48 V rated value	10 A
	10 A
at 110 V rated value	3.2 A
at 125 V rated value	2.5 A
at 220 V rated value	0.9 A
at 600 V rated value	0.22 A
operational current at DC-13	10.4
at 24 V rated value	10 A
at 48 V rated value	5 A 1 14 A
 at 110 V rated value at 125 V rated value 	1.14 A 0.98 A
at 220 V rated value	0.48 A 0.07 A
at 600 V rated value	
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	820 A
at 600 V rated value	820 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	290 hp
— at 220/230 V rated value	350 hp
— at 460/480 V rated value	700 hp
— at 575/600 V rated value	860 hp

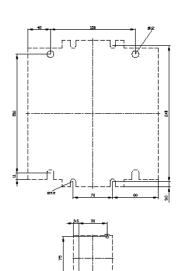
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gG: 1250 A (690 V, 100 kA)
 — with type of assignment 2 required 	gG: 630 A (690 V, 50 kA), aM: 630 A (690 V, 50 kA), BS88: 630 A (690 V, 50 kA)
 for short-circuit protection of the auxiliary switch required 	fuse gG: 10 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
side-by-side mounting	Yes
height	295 mm
width	230 mm
depth	237 mm
required spacing	
• with side-by-side mounting	
- forwards	20 mm
— upwards	10 mm
- downwards	10 mm
— at the side	10 mm
for grounded parts	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
 for live parts 	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
width of connection bar	40 mm
thickness of connection bar	6 mm
diameter of holes	13.5 mm
number of holes	1
type of electrical connection	
for main current circuit	Connection bar
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
type of connectable conductor cross-sections	
for main contacts	
- stranded	50 240 mm²
	50 240 mm²
 finely stranded with core end processing at AWG cables for main contacts 	
	2/0 500 kcmil
connectable conductor cross-section for main contacts	
finely stranded with core end processing	240 50 mm²
connectable conductor cross-section for auxiliary	
contacts	
 solid or stranded 	0.5 2.5 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.5 1.0 mm²), 2x (1.0 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.0 mm ²), 2x (0.75 2.5 mm ²)
at AWG cables for auxiliary contacts	2x (18 12)

AWG number as coded connectabl				
section	le conductor cross			
 for main contacts 		500		
 for auxiliary contacts 		18 12		
Safety related data				
product function mirror contact ac	c. to IEC 60947-4-1	Yes; One NC contact eac left auxiliary switch block	ch must be connected in s respectively	eries for the right and
product function positively driven ope 60947-5-1	ration acc. to IEC	No		
protection class IP on the front acc	c. to IEC 60529	IP00		
certificates/ approvals				
General Product Approval				Functional Safety/Safety of Machinery
			EHC	<u>Type Examination</u> <u>Certificate</u>
Declaration of Conformity	Test Certifica	ites		Marine / Shipping
EG-Konf.		<u>ertific-</u> <u>Miscellaneous</u>	<u>Type Test Certific-</u> ates/Test Report	BUREAU VERITAS
	other		Railway	
Marine / Shipping			-	
Marine / Shipping	Confirmatio	on <u>Miscellaneous</u>	Special Test Certific- ate	

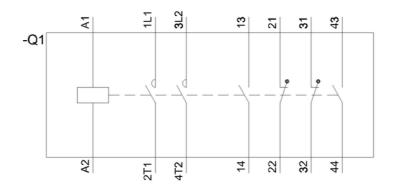




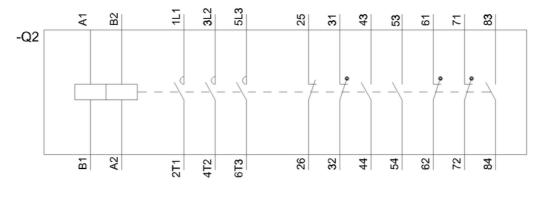








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