SIEMENS

Data sheet

3TF6833-8DB4

Contactor, Size 14, 3-pole, AC-3, 335kW, 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 1 000 V • of main circuit with degree of pollution 3 rated value 1 000 V surge voltage resistance 8 kV • 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 300 V • between auxiliary circuit 500 V shock resistance at rectangular impulse 9.5g / 5 ms, 5.7g / 10 ms • at DC 9.5g / 5 ms, 9.1 g / 10 ms mechanical service life (switching cycles) 5 000 000 • of contactor typical 5 000 000 reference code acc. to IEC 81346-2 Q Q Substance Prohibitance (Date) 01.03.2017 00:00:00 Ambient conditions 2 000 m ambient temperature -55 +55 °C • during storage -55 +80 °C • during storage -55 +80 °C • relative humidity during operation 10 % relative humidity during operation 10 %	product type designation	3TF6			
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relative humidity during operation 10 95 % relative humidity at 55 °C acc. to IEC 60068-2-30 95 %	during storage	-55 +80 °C			
relative humidity at 55 °C acc. to IEC 60068-2-30 95 %	relative humidity minimum	10 %			
		10 95 %			
		95 %			
Main circuit	Main circuit				
number of poles for main current circuit 3	number of poles for main current circuit	3			
number of NO contacts for main contacts 3	number of NO contacts for main contacts	3			

number of NC contacts for main contacts	0
type of voltage for main current circuit	AC
operating voltage	
 at AC-3 rated value maximum 	1 000 V
operational current	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	700 A
— up to 690 V at ambient temperature 55 $^\circ C$ rated value	630 A
— up to 1000 V at ambient temperature 55 °C rated value	450 A
• at AC-3	
— at 400 V rated value	630 A
— at 500 V rated value	630 A
— at 690 V rated value	630 A
— at 1000 V rated value	435 A
 at AC-4 at 400 V rated value 	610 A
● at AC-6a	
 — up to 500 V for current peak value n=20 rated value 	513 A
 up to 690 V for current peak value n=20 rated value 	513 A
 up to 1000 V for current peak value n=20 rated value 	435 A
● at AC-6a	
 — up to 400 V for current peak value n=30 rated value 	342 A
 — up to 500 V for current peak value n=30 rated value 	342 A
 — up to 690 V for current peak value n=30 rated value 	342 A
 — up to 1000 V for current peak value n=30 rated value 	342 A
connectable conductor cross-section in main circuit at AC-1	
• at 40 °C minimum permissible	480 mm²
operational current for approx. 200000 operating cycles at AC-4	
 at 400 V rated value 	300 A
• at 690 V rated value	300 A
operating power	
• at AC-3	
— at 230 V rated value	200 kW
— at 400 V rated value	335 kW
— at 690 V rated value	600 kW
— at 1000 V rated value	600 kW
operating apparent power at AC-6a	
• up to 400 V for current peak value n=20 rated value	338 kV·A
 up to 690 V for current peak value n=20 rated value 	586 kV·A
 up to 1000 V for current peak value n=20 rated value 	752 kV·A
operating apparent power at AC-6a	
 up to 400 V for current peak value n=30 rated value 	226 kV·A
 up to 690 V for current peak value n=30 rated value 	390 kV·A
 up to 1000 V for current peak value n=30 rated value 	592 kV·A
thermal short-time current limited to 10 s	5 040 A
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor	45 W
	0.000 4 //
no-load switching frequency at AC	2 000 1/h

● at AC-1 maximum	700 1/h
• at AC-2 at AC-3 maximum	200 1/h
Control circuit/ Control	200 1/11
	DC
type of voltage of the control supply voltage control supply voltage at DC	
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	1 010 W
holding power of magnet coil at DC	28 W
closing delay	
• at DC	76 110 ms
opening delay	
• at DC	10 50 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts	
attachable	3
 instantaneous contact 	3
number of NO contacts for auxiliary contacts	
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 A
 at 48 V rated value 	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	
 at 24 V rated value 	10 A
• at 48 V rated value	5 A
at 110 V rated value	1.14 A
at 125 V rated value	0.98 A
at 220 V rated value	0.48 A
at 600 V rated value	0.07 A
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	630 A
• at 600 V rated value	630 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	231 hp
— at 220/230 V rated value	266 hp
— at 460/480 V rated value	530 hp
— at 575/600 V rated value	664 hp

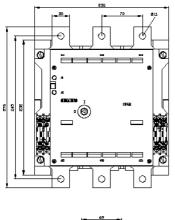
contact rating of auxiliary contacts according to UL	A600 / Q600				
Short-circuit protection					
design of the fuse link					
for short-circuit protection of the main circuit					
- with type of coordination 1 required	~C: 1000 A (600) (100 kA)				
	gG: 1000 A (690 V, 100 kA)				
 — with type of assignment 2 required 	gG: 500 A (690 V, 100 kA), aM: 630 A (690 V, 50 kA), BS88: 500 A (415 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	276 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				
	10 1111				
for live parts	00				
— forwards	20 mm				
— upwards	10 mm				
— downwards	10 mm				
— at the side	10 mm				
Connections/ Terminals					
width of connection bar	30 mm				
thickness of connection bar	6 mm				
diameter of holes	11 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	70 240 mm ²				
 finely stranded with core end processing 	50 240 mm²				
 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 (0.5 1.0 mm), 2x (0.75 2.5 mm)				
e at two babies for auxiliary collacts					

			-				
AWG number as coo	ded connectable con	ductor cross					
 for main contact 	cts		500				
for auxiliary contacts							
Safety related data							
product function mirror contact acc. to IEC 60947-4-1 Yes; One NC contact each must be connected in series for the right and left auxiliary switch block respectively							
product function positively driven operation acc. to IEC 60947-5-1							
protection class IP on the front acc. to IEC 60529 IP00							
Certificates/ approval	ls						
General Product Approval Functional Safety/Safety of Machinery Declaration of Conformity							
Image: Section of Conformity Image: Type Examination Certificate UK Declaration of Conformity							
Declaration of Conformity	Test Certificates				Marine / Shipping		
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Marine / Shipping	other	Railway					
Confirmation Special Test Certific- ate							
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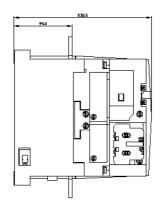
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Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3TF6833-8DB4/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TF6833-8DB4&objecttype=14&gridview=view1

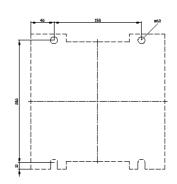




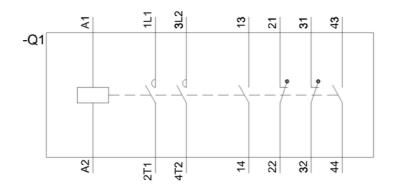


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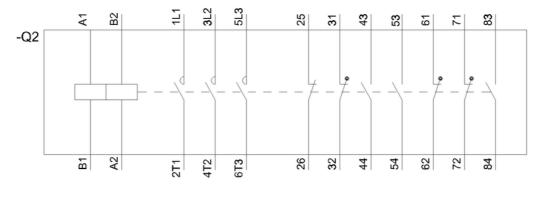
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