SIEMENS

Data sheet 3TF6833-1DF4

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 110 V DC





product designation	Vacuum contactor
product type designation	3TF6
General technical data	
size of contactor	14
product extension	
 function module for communication 	No
auxiliary switch	No
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	690 V
surge voltage resistance	
 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	
 between auxiliary and auxiliary circuit 	300 V
between main and auxiliary circuit	500 V
shock resistance at rectangular impulse	
at DC	9.5g / 5 ms, 5.7g / 10 ms
shock resistance with sine pulse	
• at DC	14.5 g / 5 ms, 9.1 g / 10 ms
mechanical service life (switching cycles)	
of contactor typical	5 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.03.2017 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 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	
number of poles for main current circuit	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

• at AC-3 rated value maximum • at AC-1 • or to 680 V at ambient temperature 40 °C rated value — up to 680 V at ambient temperature 55 °C rated value — up to 690 V at ambient temperature 55 °C rated value — up to 1000 V at ambient temperature 55 °C rated value — at 1000 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 1000 V rated value • at AC-3 at 400 V rated value • at AC-4 at 400 V rated value • at AC-5 at 400 V rated value • at AC-6 at 400 V rated value • at AC-6 at 400 V rated value — up to 500 V for current peak value n=20 rated value — up to 1000 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — at 400 V rated value — at 500 V for current peak value n=20 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 1000 V rated value — at 600	operating voltage	
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	rated value	450 A
- at 500 V rated value		620 A
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value — up to 1000 V for current peak value n=30 rated value connectable conductor cross-section in main circuit at AC-1 • at 40 °C minimum permissible operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 900 V rated value • up to 400 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for curr		342 A
value connectable conductor cross-section in main circuit at AC-1 • at 40 °C minimum permissible operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 900 V rated value — at 900 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=20 rated		342 A
at 40 °C minimum permissible operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 230 V rated value — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 1000 V rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for 690 V for c		342 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value operating power • at AC-3 — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 1000 V rocurrent peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up t		
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• at 690 V rated value operating power • at AC-3 — at 230 V rated value — at 400 V rated value — at 400 V rated value — 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 • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a • up to 400 V for current peak value n=20 rated value • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 4		
operating power • at AC-3 — at 230 V rated value — at 400 V rated value — at 690 V rated value — 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 • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value value thermal short-time current limited to 10 s power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC poperating frequency • at AC-1 maximum • at AC-2 at AC-3 maximum 200 1/h	 at 400 V rated value 	300 A
 at AC-3 at 230 V rated value at 400 V rated value 335 kW at 690 V rated value 600 kW operating apparent power at AC-6a up to 400 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value operating apparent power at AC-6a up to 400 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value soperating apparent power at AC-3 at 400 V for rated value 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 no-load switching frequency at AC 2 000 1/h operating frequency at AC-1 maximum at AC-2 at AC-3 maximum 	at 690 V rated value	300 A
- at 230 V rated value - at 400 V rated value - at 690 V rated value - 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 • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value value operating apparent power at AC-6a • up to 400 V for current peak value n=20 rated value value operating apparent power at AC-6a • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value of the value operational current limited to 10 s power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC-1 maximum • at AC-2 at AC-3 maximum 700 1/h • at AC-2 at AC-3 maximum	operating power	
- at 400 V rated value - at 690 V rated value - 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 • up to 690 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • bear 1000 V for current peak value n=30 rated value • 2000 V	• at AC-3	
- at 690 V rated value - 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 • up to 1000 V for current peak value n=20 rated value • up to 1000 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value operating apparent power at AC-6a • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • 226 kV·A 390 kV·A 592 kV·A thermal short-time current limited to 10 s power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC-1 maximum at AC-2 at AC-3 maximum 700 1/h 200 1/h	— at 230 V rated value	200 kW
— at 1000 V rated value operating apparent power at AC-6a	— at 400 V rated value	335 kW
operating apparent power at AC-6a	— at 690 V rated value	600 kW
up to 400 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a up to 400 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value value thermal short-time current limited to 10 s power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC-1 maximum at AC-2 at AC-3 maximum 138 kV·A 586 kV·A 752 kV·A 226 kV·A 390 kV·A 592 kV·A 45 W 2000 1/h 2000 1/h 2000 1/h 2000 1/h 2000 1/h 2000 1/h	— at 1000 V rated value	600 kW
 up to 690 V for current peak value n=20 rated value up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a up to 400 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value 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 no-load switching frequency at AC at AC-1 maximum at AC-2 at AC-3 maximum 200 1/h 	operating apparent power at AC-6a	
up to 1000 V for current peak value n=20 rated value operating apparent power at AC-6a up to 400 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value thermal short-time current limited to 10 s power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC at AC-1 maximum at AC-2 at AC-3 maximum at AC-2 at AC-3 maximum at AC-2 at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-7 maximum at AC-8 maximum at AC-8 maximum at AC-8 maximum at AC-9 maximum at AC-9 maximum at AC-1 maximum at AC-1 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-1 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-1 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-1 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum	• up to 400 V for current peak value n=20 rated value	338 kV·A
operating apparent power at AC-6a • up to 400 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value • up to 1000 V for current peak value n=30 rated value value thermal short-time current limited to 10 s power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC operating frequency • at AC-1 maximum • at AC-2 at AC-3 maximum 200 1/h	• up to 690 V for current peak value n=20 rated value	586 kV·A
 up to 400 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value thermal short-time current limited to 10 s power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC operating frequency at AC-1 maximum at AC-2 at AC-3 maximum 200 1/h 		752 kV·A
 up to 690 V for current peak value n=30 rated value up to 1000 V for current peak value n=30 rated value thermal short-time current limited to 10 s power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC operating frequency at AC-1 maximum at AC-2 at AC-3 maximum 200 1/h 	operating apparent power at AC-6a	
 up to 1000 V for current peak value n=30 rated value 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 no-load switching frequency at AC 2 000 1/h operating frequency at AC-1 maximum at AC-2 at AC-3 maximum 200 1/h 	• up to 400 V for current peak value n=30 rated value	226 kV·A
thermal short-time current limited to 10 s power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC operating frequency • at AC-1 maximum • at AC-2 at AC-3 maximum 200 1/h	• up to 690 V for current peak value n=30 rated value	390 kV·A
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC operating frequency • at AC-1 maximum • at AC-2 at AC-3 maximum 200 1/h		592 kV·A
operational current per conductor no-load switching frequency at AC operating frequency • at AC-1 maximum • at AC-2 at AC-3 maximum 200 1/h	thermal short-time current limited to 10 s	5 040 A
operating frequency		45 W
 at AC-1 maximum at AC-2 at AC-3 maximum 700 1/h 200 1/h 	no-load switching frequency at AC	2 000 1/h
• at AC-2 at AC-3 maximum 200 1/h	operating frequency	
	• at AC-1 maximum	700 1/h
ontrol circuit/ Control	at AC 2 at AC 3 maximum	200 1/h
	at AC-2 at AC-3 maximum	

control supply voltage at DC	
rated value	110 V
operating range factor control supply voltage rated	
value of magnet coil at DC	0.0
• 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	0.0071
at 24 V rated value	10 A
at 48 V rated value	10 A
at 10 V rated value at 110 V rated value	3.2 A
at 110 V rated value at 125 V rated value	2.5 A
at 125 V rated value at 220 V rated value	0.9 A
• at 600 V rated value	0.22 A
operational current at DC-13	40.0
• 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
111 100 4 (*	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	gG: 1000 A (690 V, 100 kA)
with type of cooldination required with type of assignment 2 required	gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 630 A (690 V, 50 kA), BS88: 500 A (415
- with type of assignment 2 required	90. 000 / (000 V, 100 loty, alvi. 000 / (000 V, 30 kA), 0000. 300 / (413

	V, 50 kA)
• for short-circuit protection of the auxiliary switch	fuse gG: 10 A
required 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
• for live parts	
— 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 mm²
finely stranded with core end processing	50 240 mm ²
at AWG cables for main contacts	2/0 500 kcmil
connectable conductor cross-section for main	Liv Journal
contacts	
 finely stranded with core end processing 	240 50 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 2.5 mm ²
finely stranded with core end processing	0.5 2.5 mm²
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 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (18 12)
AWG number as coded connectable conductor cross section	
for main contacts	500
for auxiliary contacts	18 12
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

No

60947-5-1

protection class IP on the front acc. to IEC 60529

IP00

Certificates/ approvals

General Product Approval

Functional Safety/Safety of Machinery











Type Examination Certificate

Test Certificates

Marine / Shipping

Type Test Certificates/Test Report

Special Test Certificate

Miscellaneous







other

Railway

Confirmation

Special Test Certific-

<u>ate</u>

Further information

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=3TF6833-1DF4

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TF6833-1DF4

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

https://support.industry.siemens.com/cs/ww/en/ps/3TF6833-1DF4

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

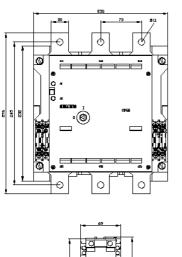
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TF6833-1DF4&lang=en

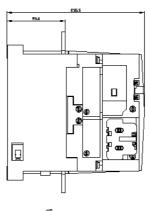
Characteristic: Tripping characteristics, I2t, Let-through current

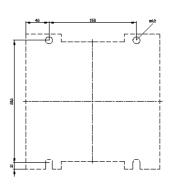
https://support.industry.siemens.com/cs/ww/en/ps/3TF6833-1DF4/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TF6833-1DF4&objecttype=14&gridview=view1





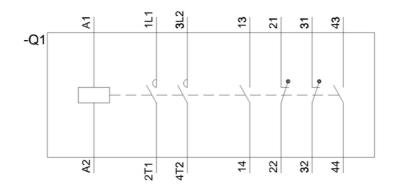




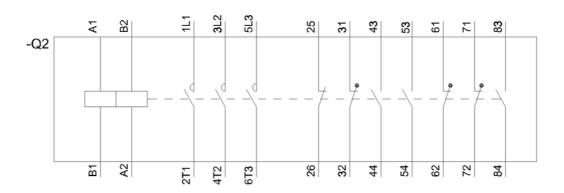




3TC4417-0Axx



3TF(68,69)33-(1D,8D)xx



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