## **SIEMENS**

Data sheet 3TF6933-1QL7

Vacuum contactor

vacuum contactor AC-3e 630 A, 335 kW / 400 V, AC-3 820 A, 450 kW / 400 V, Ue 690 V, 3-pole, Uc: 220-240 V AC(50/60 Hz) drive: conventional rectifier bridge built-in with reversing contactor 3TC44 auxiliary contacts 3 NO + 3 NC main circuit: busbar control and auxiliary circuit: screw terminal



product designation



vacuum contactor
3TF6
14
No
No
1 000 V
690 V
8 kV
6 kV
300 V
500 V
9.5g / 5 ms, 5.7g / 10 ms
13.5g / 5 ms, 7.8g / 10 ms
5 000 000
Q
03/01/2017
Lead - 7439-92-1
22.821 kg
2 000 m
-25 +55 °C
-55 +80 °C
10 %
10 95 %
95 %
3
3
0

type of voltage for main current circuit	AC
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum	690 V
operational current	
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	910 A
— up to 690 V at ambient temperature 55 $^{\circ}\text{C}$ rated value	850 A
• at AC-3	
— 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-3e	
— 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	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 value	675 A
— up to 690 V for current peak value n=20 rated value	675 A
• at AC-6a	
— up to 400 V for current peak value n=30 rated value	450 A
— up to 500 V for current peak value n=30 rated value	450 A
— up to 690 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 mm²
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
<ul><li>— at 230 V rated value</li><li>— at 400 V rated value</li></ul>	260 kW 450 kW
<ul><li>— at 400 V rated value</li><li>— at 500 V rated value</li></ul>	450 kW 600 kW
<ul><li>at 400 V rated value</li><li>at 500 V rated value</li><li>at 690 V rated value</li></ul>	450 kW 600 kW 800 kW
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 1000 V rated value</li> </ul>	450 kW 600 kW
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 1000 V rated value</li> <li>at AC-3e</li> </ul>	450 kW 600 kW 800 kW
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 1000 V rated value</li> <li>at AC-3e</li> <li>at 230 V rated value</li> </ul>	450 kW 600 kW 800 kW 200 kW
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 1000 V rated value</li> <li>at AC-3e</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> </ul>	450 kW 600 kW 800 kW 200 kW 355 kW
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 1000 V rated value</li> <li>at AC-3e</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul>	450 kW 600 kW 800 kW 200 kW 355 kW
<ul> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 1000 V rated value</li> <li>at AC-3e</li> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>at 1000 V rated value</li> <li>at 1000 V rated value</li> </ul>	450 kW 600 kW 800 kW 200 kW 355 kW
— at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value  • at AC-3e — at 230 V rated value — at 400 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value	450 kW 600 kW 800 kW 800 kW 200 kW 355 kW 600 kW
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value  • at AC-3e - at 230 V rated value - at 400 V rated value - at 690 V rated value - at 1000 V rated value	450 kW 600 kW 800 kW 800 kW 200 kW 355 kW 600 kW 800 kW
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value  • at AC-3e - at 230 V rated value - at 400 V rated value - at 690 V rated value - at 1000 V rated value  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	450 kW 600 kW 800 kW 800 kW 200 kW 355 kW 600 kW
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value  • at AC-3e - at 230 V rated value - at 400 V rated value - at 690 V rated value - at 1000 V rated value - at 1000 V rated value - at 1000 V rated value operating apparent power at AC-6a • up to 400 V for current peak value n=20 rated value operating apparent power at AC-6a	450 kW 600 kW 800 kW 200 kW 355 kW 600 kW 800 kW
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value  • at AC-3e - at 230 V rated value - at 400 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 operating apparent power at AC-6a • 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	450 kW 600 kW 800 kW 800 kW 200 kW 355 kW 600 kW 800 kW 445 kVA 771 kVA
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value  • at AC-3e - at 230 V rated value - at 400 V rated value - at 690 V rated value - at 1000 V rated value operating apparent power at AC-6a • 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	450 kW 600 kW 800 kW 200 kW 355 kW 600 kW 800 kW 800 kW 445 kVA 771 kVA
— at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value • at AC-3e — at 230 V rated value — at 400 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 1000 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  operating apparent power at AC-6a • 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	450 kW 600 kW 800 kW 800 kW 200 kW 355 kW 600 kW 800 kW 800 kW 445 kVA 771 kVA
- at 400 V rated value - at 500 V rated value - at 690 V rated value - at 1000 V rated value  • at AC-3e - at 230 V rated value - at 400 V rated value - at 690 V rated value - at 1000 V rated value operating apparent power at AC-6a • 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	450 kW 600 kW 800 kW 200 kW 355 kW 600 kW 800 kW 800 kW 445 kVA 771 kVA
— at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value  • at AC-3e — at 230 V rated value — at 400 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 1000 V rated value  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 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 thermal short-time current limited to 10 s power loss [W] at AC-3 at 400 V for rated value of the	450 kW 600 kW 800 kW 800 kW 200 kW 355 kW 600 kW 800 kW 800 kW 445 kVA 771 kVA
— at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value • at AC-3e — at 230 V rated value — at 400 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 1000 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  operating apparent power at AC-6a • up to 400 V for current peak value n=30 rated value  operating apparent power at AC-6a • up to 690 V for current peak value n=30 rated value  to 690 V for current peak value n=30 rated value  oup to 690 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	450 kW 600 kW 800 kW 800 kW 200 kW 355 kW 600 kW 800 kW 800 kW 445 kVA 771 kVA 297 kVA 514 kVA 7 000 A 70 W
— at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value • at AC-3e — at 230 V rated value — at 400 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 1000 V rated value  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 operating apparent power at AC-6a • up to 400 V for current peak value n=30 rated value operating apparent power at AC-6a • up to 690 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	450 kW 600 kW 800 kW 800 kW 200 kW 355 kW 600 kW 800 kW 800 kW 445 kVA 771 kVA 297 kVA 514 kVA 7 000 A 70 W

— at 400 V maximum	500 1/h
— at 400 V maximum — at 690 V maximum	500 1/h
at AC-2 at AC-3 maximum	200 1/h
at AC-2 at AC-3 maximum     at AC-2 at AC-3e maximum	200 1/h
at AC-2 at AC-3e maximum  Control circuit/ Control	200 1/11
	40
type of voltage of the control supply voltage	AC
control supply voltage at AC	000 040 V
at 50 Hz rated value	220 240 V
at 60 Hz rated value	220 240 V
operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	1 150 VA
● at 60 Hz	1 150 VA
inductive power factor with closing power of the coil	
• at 50 Hz	1
• at 60 Hz	1
apparent holding power of magnet coil at AC	
• at 50 Hz	11 VA
● at 60 Hz	11 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	1
● at 60 Hz	1
closing delay	
• at AC	45 160 ms
opening delay	
• at AC	30 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
Auxiliary circuit number of NC contacts for auxiliary contacts	
	3
number of NC contacts for auxiliary contacts	3 3
number of NC contacts for auxiliary contacts  • attachable	
number of NC contacts for auxiliary contacts  • attachable  • instantaneous contact	
number of NC contacts for auxiliary contacts	3
number of NC contacts for auxiliary contacts	3
number of NC contacts for auxiliary contacts	3 3 3
number of NC contacts for auxiliary contacts	3 3 3
number of NC contacts for auxiliary contacts	3 3 3 10 A
number of NC contacts for auxiliary contacts	3 3 3 10 A 5.6 A 3.6 A 2.5 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value	3 3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value	3 3 3 10 A 5.6 A 3.6 A 2.5 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value	3 3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 110 V rated value at 110 V rated value	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact  number of NO contacts for auxiliary contacts attachable instantaneous contact  operational current at AC-12 maximum  operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value  operational current at DC-12 at 24 V rated value at 48 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 125 V rated value	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A  10 A 10 A 10 A 3.2 A 2.5 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A  10 A 10 A 10 A 3.2 A 2.5 A 0.9 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A  10 A 10 A 10 A 3.2 A 2.5 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value operational current at DC-13	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A  10 A 10 A 3.2 A 2.5 A 0.9 A 0.22 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 24 V rated value at 27 V rated value at 28 V rated value at 29 V rated value	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A  10 A 10 A 10 A 10 A 10 A 0.22 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 24 V rated value at 48 V rated value at 48 V rated value	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A  10 A 10 A 3.2 A 2.5 A 0.9 A 0.22 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 220 V rated value at 24 V rated value at 25 V rated value at 27 V rated value at 28 V rated value at 29 V rated value at 48 V rated value at 48 V rated value	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A  10 A 10 A 3.2 A 2.5 A 0.9 A 0.22 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 24 V rated value at 25 V rated value at 48 V rated value	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A  10 A 10 A 10 A 3.2 A 2.5 A 0.9 A 0.22 A  10 A 5 A 1.14 A 0.98 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 24 V rated value at 25 V rated value at 27 V rated value at 28 V rated value at 29 V rated value at 210 V rated value	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A  10 A 10 A 10 A 3.2 A 2.5 A 0.9 A 0.22 A  10 A 5 A 1.14 A 0.98 A 0.48 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 48 V rated value at 48 V rated value at 24 V rated value at 220 V rated value at 220 V rated value at 24 V rated value at 25 V rated value at 27 V rated value at 28 V rated value at 29 V rated value at 20 V rated value at 20 V rated value at 20 V rated value at 220 V rated value	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A  10 A 10 A 3.2 A 2.5 A 0.9 A 0.22 A  10 A 5 A 1.14 A 0.98 A 0.48 A 0.07 A
number of NC contacts for auxiliary contacts  attachable instantaneous contact number of NO contacts for auxiliary contacts attachable instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 690 V rated value operational current at DC-12 at 440 V rated value operational current at DC-12 at 24 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 24 V rated value at 25 V rated value at 27 V rated value at 28 V rated value at 29 V rated value at 210 V rated value	3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A  10 A 10 A 10 A 3.2 A 2.5 A 0.9 A 0.22 A  10 A 5 A 1.14 A 0.98 A 0.48 A

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	
<ul> <li>— with type of coordination 1 required</li> </ul>	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	with vertical recording aurification (COO - 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method side-by-side mounting	Yes
fastening method	screw fixing
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	
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
width of connection bar	40 mm
thickness of connection bar	6 mm
diameter of holes	13.5 mm
number of holes	1
type of connectable conductor cross-sections for main contacts	
• stranded	50 240 mm²
finely stranded with core end processing	50 240 mm²
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 mm <sup>2</sup>
• Solid of Straffded	
finely stranded with core end processing	0.5 2.5 mm²
	0.5 2.5 mm²

— solid	2x (0.5 1.0 mm²), 2x (1.0 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.0 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	2x (18 12)
AWG number as coded connectable conductor cross section	
<ul> <li>for main contacts</li> </ul>	500
for auxiliary contacts	18 12
Safety related data	
product function	
<ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>	Yes; One NC contact each must be connected in series for the right and left auxiliary switch block respectively
<ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>	No
suitable for safety function	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	40 %
<ul> <li>with high demand rate according to SN 31920</li> </ul>	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00
Approvals Certificates	
General Product Approval	Functional Saftey Test Certificates

Marine / Shipping





EAC



Type Examination Certificate

other

**Miscellaneous** 

Confirmation

**Miscellaneous** 

Special Test Certific-

<u>ate</u>

## **Dangerous goods**

**Transport Information** 

## Further information

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)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TF6933-1QL7}$ 

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3TF6933-1QL7}$ 

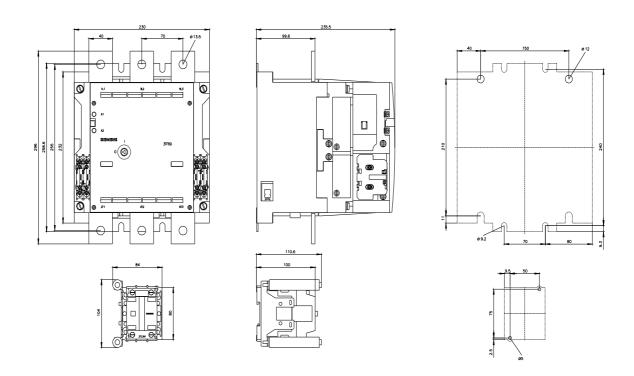
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

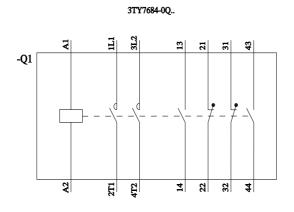
https://support.industry.siemens.com/cs/ww/en/ps/3TF6933-1QL7

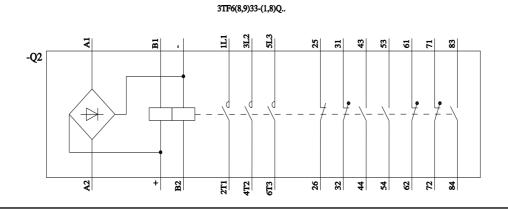
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3TF6933-1QL7&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current







last modified: 6/19/2024 🖸