SIEMENS

Data sheet 3TF6933-1QL7-Z A02

Contactor, Size 14, 3-pole, AC-3 450 kW, 400 / 380 V (690 V) Auxiliary switch 33 (3NO+3NC) Rectifier bridge built-in with reversing contactor 3TC44 AC operation 220 to 240 V AC 50/60 Hz without overvoltage attenuation in main circuit





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 AC	9.5g / 5 ms, 5.7g / 10 ms
shock resistance with sine pulse	
• at AC	13.5g / 5 ms, 7.8g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	5 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	03/01/2017
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 according 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
operating voltage	
 at AC-3 rated value maximum 	690 V

at AC-3e rated value maximum	690 V
operational current	090 V
at AC-1	
— up to 690 V at ambient temperature 40 °C	910 A
rated value	310 A
— up to 690 V at ambient temperature 55 °C	850 A
rated value	
• 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 AC-3e	
— at 400 V rated value	630 A
— at 500 V rated value	630 A
— at 690 V rated value	630 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	075 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	450 A
value	100 A
— 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	
connectable conductor cross-section in main circuit at AC-1	
• at 40 °C minimum permissible	600 mm²
·	000 111111
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 AC-3e	
— at 230 V rated value	200 kW
— 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	445 kVA
• up to 690 V for current peak value n=20 rated value	771 kVA
operating apparent power at AC-6a	
• up to 400 V for current peak value n=30 rated value	297 kVA
• up to 690 V for current peak value n=30 rated value	514 kVA
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	70 W
operational current per conductor power loss [W] at AC-3e at 400 V for rated value of the	70 W
operational current per conductor	7 U VV
no-load switching frequency at AC	1 000 1/h
operating frequency	
at AC-1 maximum	700 1/h
• at AC-3e	
— at 400 V maximum	500 1/h
— at 690 V maximum	500 1/h
at AC-2 at AC-3 maximum	200 1/h
• at AC-2 at AC-3e maximum	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
_	

* af 60 Hz meted value operating range factor control supply voltage rated value of magnet coll at AC * at 50 Hz * at 60 Hz * apparent pick-up power of magnet coll at AC * at 50 Hz * at 60 Hz * at		
operating range factor control supply voltage rated value of magnet coil at AC	 at 50 Hz rated value 	220 240 V
value of magnet coll at AC	 at 60 Hz rated value 	220 240 V
• at 50 Hz apaparent plek-up power of magnet coil at AC • at 50 Hz • at 50 H		
e at 50 Hz apparent pick-up power of magnet coil at AC e at 50 Hz at 50 Hz 1 150 VA 1150 VA 1		
apparent pick up power of magnet coil at AC at 80 Hz at 80 H	● at 50 Hz	0.8 1.1
• at 50 Hz Inductive power factor with closing power of the coll • at 60 Hz •	● at 60 Hz	0.8 1.1
150 VA	apparent pick-up power of magnet coil at AC	
Inductive power factor with closing power of the coil	● at 50 Hz	1 150 VA
• at 50 Hz	● at 60 Hz	1 150 VA
• at 80 Hz	inductive power factor with closing power of the coil	
		1
apparent holding power of magnet coil at AC	• at 60 Hz	1
at 50 Hz at 50 Hz lnductive power factor with the holding power of the coil at 50 Hz at 60 Hz at 60 Hz at 70 Hz at 80 Hz at		
at 50 Hz		11 VA
inductive power factor with the holding power of the coil		
oal 150 Hz		11 VA
* at 80 Hz closing delay * at AC * arcing time * control version of the switch operating mechanism * Auxiliary directit number of NC contacts for auxiliary contacts * attachable * instantaneous contact * number of NC contacts for auxiliary contacts * attachable * instantaneous contact * attachable		
at 40 Hz closing delay at AC 45 160 ms copening delay at AC 30 80 ms control version of the switch operating mechanism 10 15 ms control version of the switch operating mechanism 20 15 ms control version of the switch operating mechanism 20 15 ms control version of the switch operating mechanism 20 15 ms control version of the switch operating mechanism 20 15 ms control version of the switch operating mechanism 20 15 ms control version of the switch operating mechanism 20 15 ms control version of the switch operating mechanism 20 15 ms control version of the switch operating mechanism 20 15 ms	• at 50 Hz	1
e at AC		
e at AC opening delay		
opening delay at AC Auxiliary circuit number of NC contacts for auxiliary contacts attachable at		45 160 ms
* at AC		
Auxiliary circuit Number of NC contacts for auxiliary contacts 3		30 80 ms
control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit Auxiliary circuit number of NC contacts for auxiliary contacts		
Number of NC contacts for auxiliary contacts attachable ainstantaneous contact sattachable ait 230 V rated value ait 230 V rated value ait 400 V rated value ait 400 V rated value ait 556 A ait 300 V rated value ait 600 V rated value ait 600 V rated value ait 10 A ait 110 V rated value ait 110 V rated value ait 125 V rated value ait 220 V rated value ait 25 V rated value ait 260 V rated value ait 27 V rated value ait 27 V rated value ait 28 V rated value ait 29 V rated value ait 20 V rated value ait 25 V rated value ait 48 V rated value ait 600 V r	_	
number of NC contacts for auxillary contacts a titachable 3 e instantaneous contact 3 number of NO contacts for auxillary contacts 3 e attachable 3 e instantaneous contact 3 operational current at AC-12 maximum 10 A operational current at AC-15 5 e at 230 V rated value 5.6 A e at 400 V rated value 2.5 A e at 690 V rated value 2.5 A e 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 440 V rated value 0.33 A operational current at DC-12 at 440 V rated value 0.33 A e at 24 V rated value 10 A e at 110 V rated value 2.5 A e at 125 V rated value 2.5 A e at 220 V rated value 0.9 A e at 600 V rated value 0.22 A operational current at DC-13 10 A e at 42 V rated value 5 A e at 110 V rated value 0.22 A e at 220 V rated value 0.8 A		Standard / 1 / 12
instantaneous contact number of NO contacts for auxiliary contacts		
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 2.5 A • at 500 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 440 V rated value 0.33 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 110 V rated value 10 A • at 125 V rated value 2.5 A • at 220 V rated value 0.9 A • at 220 V rated value 0.9 A • at 3600 V rated value 0.22 A operational current at DC-13 • at 24 V rated value 5 A • at 140 V rated value 5 A • at 1500 V rated value 0.98 A • at 120 V rated value 0.98 A • at 120 V rated value 0.48 A • at 120 V rated value 0.48 A • at 20 V rated value 0.48 A • at 20 V rated value 0.48 A • at 20 V rated value 0.48 A • at 600 V rated value 0.48 A • at		
		3
instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value		
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 • at 690 V rated value operational current at DC-12 at 440 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 25 V rated value • at 2600 V rated value • at 27 V rated value • at 28 V rated value • at 48 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value •		
operational current at AC-15		
• at 230 V rated value • at 400 V rated value • at 400 V rated value • at 690 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 220 V rated value • at 24 V rated value • at 25 V rated value • at 220 V rated value • at 48 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 480 V rated value • at 600 V rated value • at 480 V rated value • at 200/208 V rated value • at 200/208 V rated value • at 200/230 V rated value • at 200/230 V rated value • 350 hp	•	10 A
 at 400 V rated value at 500 V rated value at 690 V rated value 2.5 A 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 at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 24 V rated value at 10 V rated value at 10 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 20 V rated value at 20 V rated value ops A at 20 V rated value one incorrect switching operation of 100 million switching operations (17 V, 5 mA) DL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 200/208 V rated value 350 hp 	•	
 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 24 V rated value at 10 A at 110 V rated value at 125 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 220 V rated value at 24 V rated value at 10 V rated value at 25 V rated value at 25 V rated value at 25 V rated value at 260 V rated value at 260 V rated value at 27 V rated value at 28 V rated value at 600 V rated value at 200 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 220 V rated value • at 24 V rated value • at 80 V rated value • at 80 V rated value • at 80 V rated value • at 600 V rated value • at 24 V rated value • at 25 A • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 26 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 600 V rated value • at 820 A poeincorrect switching operation of 100 million switching operations (17 V, 5 mA) UL/CSA ratings		
Operational current at DC-12 at 440 V rated value		
10 A		
• 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 110 V rated value • at 110 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 820 A • at 600 V rated value • at 250 V rated value • at 350 V rated value • at 350 V rated value • at 350 V rated value • at 250 V rated value	-	0.33 A
 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 0.9 A at 600 V rated value 0.22 A operational current at DC-13 at 24 V rated value at 48 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value out 220 V rated value out 300 V rated value oue 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 at 600 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 200 A at 600 V rated value at 200 A at 200/208 V rated value 350 hp 	•	
• at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value contact reliability of auxiliary contacts ### ULI/CSA ratings Full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • 320 A Full-load current (FLA) for 3-phase AC motor • at 200/208 V rated value Full-load 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 operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 110 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 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 • at 600 V rated value • at 200 V rated value • at 200 V rated value • at 300 V rated value • at 200 V rated value • at 300 V rated value • at 300 V rated value • at 300 V rated value • at 200/208 V rated value - at 200/208 V rated value - at 200/208 V rated value - at 200/200 V rated value		
 at 220 V rated value at 600 V rated value 0.22 A operational current at DC-13 at 24 V rated value at 48 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 200 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 200/208 V rated value 		
• at 600 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value contact reliability of auxiliary contacts full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 200/208 V rated value separation of 100 million switching operations (17 V, 5 mA) provided mechanical performance [hp] • for 3-phase AC motor - at 200/208 V rated value - at 220/230 V rated value 290 hp - at 220/230 V rated value 350 hp	 at 125 V rated value 	
operational current at DC-13 • 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 contact reliability of auxiliary contacts full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value 290 hp — at 220/230 V rated value 350 hp	 at 220 V rated value 	
 at 24 V rated value at 48 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 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 at 600 V rated value at 200/208 V rated value at 200/208 V rated value at 220/230 V rated value 350 hp 	 at 600 V rated value 	0.22 A
 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 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 at 600 V rated value at 600 V rated value at 600 V rated value at 200/208 V rated value at 200/208 V rated value at 220/230 V rated value 350 hp 	operational current at DC-13	
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 220/230 V rated value 290 hp at 220/230 V rated value 350 hp 		
 at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 200/208 V rated value at 200/208 V rated value at 220/230 V rated value 350 hp 	at 48 V rated value	5 A
 at 220 V rated value 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 at 600 V rated value for 3-phase AC motor for 3-phase AC motor at 200/208 V rated value 290 hp at 220/230 V rated value 350 hp 	at 110 V rated value	1.14 A
 at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value for 3-phase AC motor for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value 350 hp 	 at 125 V rated value 	0.98 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 • at 600 V rated value 9 telded 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 220 V rated value	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 600 V rated value 	0.07 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	contact reliability of auxiliary contacts	
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		V, 5 mA)
 at 480 V rated value at 600 V rated value 820 A yielded mechanical performance [hp] for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value 350 hp 		
 at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value 350 hp 	full-load current (FLA) for 3-phase AC motor	
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 480 V rated value 	820 A
● for 3-phase AC motor — at 200/208 V rated value 290 hp — at 220/230 V rated value 350 hp	 at 600 V rated value 	820 A
at 200/208 V rated value 290 hp at 220/230 V rated value 350 hp	yielded mechanical performance [hp]	
— at 220/230 V rated value 350 hp	 for 3-phase AC motor 	
	 at 200/208 V rated value 	290 hp
— at 460/480 V rated value 700 hp	 at 220/230 V rated value 	350 hp
	— at 460/480 V rated value	700 hp

of E7E/G00 V roted value	960 hn
at 575/600 V rated value contact rating of auxiliary contacts according to UL	860 hp A600 / Q600
Short-circuit protection	A000 / Q000
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
factoring models of	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing Yes
side-by-side mounting	295 mm
height width	230 mm
depth	237 mm
required spacing	20
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	0 " 1
for main current circuit for auxiliary and control circuit	Connection bar
for auxiliary and control circuitat contactor for auxiliary contacts	screw-type terminals 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
 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 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 according to IEC 60947-4-1

 positively driven operation according to IEC 60947-5-1

protection class IP on the front according to IEC 60529

Yes; One NC contact each must be connected in series for the right and left auxiliary switch block respectively

No

IP00

Certificates/ approvals

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=3TF6933-1QL7-Z A02

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TF6933-1QL7-Z A02

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

https://support.industry.siemens.com/cs/ww/en/ps/3TF6933-1QL7-Z A02

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

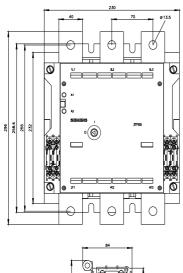
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TF6933-1QL7-Z A02&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

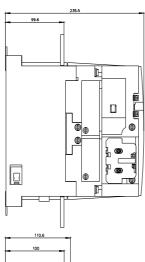
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Further characteristics (e.g. electrical endurance, switching frequency)

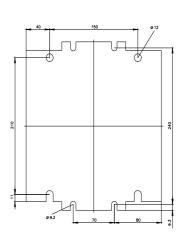
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TF6933-1QL7-Z A02&objecttype=14&gridview=view1

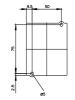




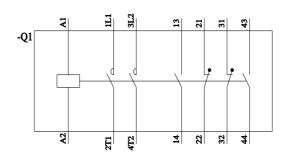




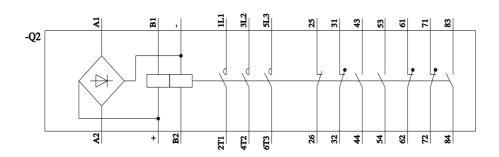




3TY7684-0Qxx



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



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