## SIEMENS

## Data sheet

## 3TF6833-1QL7

Contactor, Size 14, 3-pole, AC-3, 335kW, 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



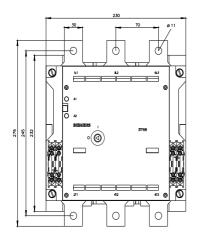
product designation	Vacuum contactor
product type designation	3TF6
General technical data	
size of contactor	14
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	1 000 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 kV
maximum permissible voltage for protective separation in networks with grounded star point	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>between main and auxiliary circuit</li> </ul>	500 V
shock resistance at rectangular impulse	
● at AC	8.1g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at AC	12.8g / 5 ms, 7.4g / 10 ms
mechanical service life (switching cycles)	
<ul> <li>of contactor typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-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

<ul> <li>et AC-3 rated value maximum</li> <li>600 V</li> <li>et AC-3 rated value maximum</li> <li>600 V</li> <li>operational current</li> <li>et AC-1</li> <li>rate of 80 V at ambient temperature 40 °C</li> <li>rated value</li> <li>and AC-1</li> <li>rated value</li> <li>and AC-1</li> <li>and BO V rated value</li> <li>and AC-3</li> <li>and AC-3</li> <li>and AC-4 at 400 V rated value</li> <li>and AC-4 at 400 V rated value = n=20 rated value</li> <li>and AC-4 at 400 V rated value = n=20 rated value</li> <li>and AC-4 at 400 V rated value = n=20 rated value</li> <li>and AC-4 at 400 V rated value = n=30 rated value</li> <li>and AC-5 at 400 V rated value = n=30 rated value</li> <li>and AC-5 at 400 V rated value = 30 rated value</li> <li>and AC-3 at 400 V rated value = 30 rated value</li> <li>and AC-3 at 400 V rated value = 30 rated value</li> <li>and AC-3 at 400 V rated value = 30 rated value</li> <li>and AC-3 at 400 V rated value = 30 rated value</li> <li>and AC-3 at 400 V rated value = 30 rated value</li> <li>and AC-3 at 400 V rated value = 30 rated value</li> <li>and AC-3 at 400 V rated value = 30 rated value</li> <li>and AC-3 at 400 V rated value = 30 rated value</li> <li>and AC-3</li></ul>	anarating voltage	
Ab C-3e rated value maximum     600 V      operational current	operating voltage	000.1/
operational current <ul> <li>a Ux 01</li> <li>a Ux 00 680 V at ambient temperature 40 °C</li> <li>a raide Value</li> <li>a raide Value</li> <li>a raide Value</li> <li>b 80 V at ambient temperature 55 °C</li> <li>a raide Value</li> <li>b 80 V raide Value</li> <li>b 80 V raide Value</li> <li>b 80 A</li> <li>a raide Value</li> <li>b 80 V raide Value</li> <li>b 80 A</li> <li>a raide Value</li> <li>b 80 A</li> <li>b 80 A</li> <li>a raide Value</li> <li>b 80 A</li> <li>a raide Value</li> <li>b 80 A</li> <li>b 10 A A</li> <li>b 11 A A</li> <li>b 10 A A</li> <li>b 10 A A</li></ul>		
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		700 Δ
raide value e at AC-3		700 A
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	— at 500 V rated value	630 A
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	• at AC-3e	
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— at 690 V rated value600 kWoperating apparent power at AC-6a338 kVA• up to 400 V for current peak value n=20 rated value338 kVA• up to 690 V for current peak value n=20 rated value586 kVAoperating apparent power at AC-6a226 kVA• up to 400 V for current peak value n=30 rated value390 kVA• up to 690 V for current peak value n=30 rated value390 kVA• up to 690 V for current peak value n=30 rated value5040 A• up to 690 V for current peak value of the operational current per conductor45 Wopwer loss [W] at AC-3 at 400 V for rated value of the operational current per conductor45 Wopwer loss itching frequency at AC2 000 1/h		
operating apparent power at AC-6a• up to 400 V for current peak value n=20 rated value338 kVA• up to 690 V for current peak value n=20 rated value586 kVAoperating apparent power at AC-6a226 kVA• up to 400 V for current peak value n=30 rated value390 kVA• up to 690 V for current peak value n=30 rated value390 kVA• up to 690 V for current peak value n=30 rated value300 kVA• up to 690 V for current peak value n=30 rated value300 kVA• up to 690 V for current peak value of 10 s5 040 A• power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor45 W• operational current per conductor2 000 1/h		
<ul> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>586 kVA</li> <li>operating apparent power at AC-6a</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>390 kVA</li> <li>thermal short-time current limited to 10 s</li> <li>5 040 A</li> <li>45 W</li> <li>operational current per conductor</li> <li>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</li> <li>no-load switching frequency at AC</li> <li>2000 1/h</li> </ul>		600 KW
• up to 690 V for current peak value n=20 rated value586 kVAoperating apparent power at AC-6a226 kVA• up to 400 V for current peak value n=30 rated value390 kVA• up to 690 V for current peak value n=30 rated value390 kVAthermal short-time current limited to 10 s5 040 Apower loss [W] at AC-3 at 400 V for rated value of the operational current per conductor45 Wpower loss [W] at AC-3e at 400 V for rated value of the operational current per conductor2 000 1/hno-load switching frequency at AC2 000 1/h		
operating apparent power at AC-6a226 kVA• up to 400 V for current peak value n=30 rated value390 kVA• up to 690 V for current peak value n=30 rated value390 kVAthermal short-time current limited to 10 s5 040 Apower loss [W] at AC-3 at 400 V for rated value of the operational current per conductor45 Wpower loss [W] at AC-3e at 400 V for rated value of the operational current per conductor45 Wpower loss [W] at AC-3e at 400 V for rated value of the operational current per conductor2 000 1/hpower loss [W] at AC-3e at 400 V for rated value of the operational current per conductor2 000 1/h		
• up to 400 V for current peak value n=30 rated value226 kVA• up to 690 V for current peak value n=30 rated value390 kVAthermal short-time current limited to 10 s5 040 Apower loss [W] at AC-3 at 400 V for rated value of the operational current per conductor45 Wpower loss [W] at AC-3e at 400 V for rated value of the operational current per conductor45 Wpower loss [W] at AC-3e at 400 V for rated value of the operational current per conductor2 000 1/hpower loss [W] at AC-3e at 400 V for rated value of the operational current per conductor2 000 1/h		οδο κνΑ
• up to 690 V for current peak value n=30 rated value390 kVAthermal short-time current limited to 10 s5 040 Apower loss [W] at AC-3 at 400 V for rated value of the operational current per conductor45 Wpower loss [W] at AC-3e at 400 V for rated value of the operational current per conductor45 Wpower loss [W] at AC-3e at 400 V for rated value of the operational current per conductor2 000 1/hpower loss [W] at AC-3e at AC2 000 1/h		
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         power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor       45 W         no-load switching frequency at AC       2 000 1/h         operating frequency       2 000 1/h		
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor       45 W         power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor       45 W         no-load switching frequency at AC       2 000 1/h         operating frequency       2 000 1/h		
operational current per conductor       45 W         power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor       45 W         no-load switching frequency at AC       2 000 1/h         operating frequency       2 000 1/h		
power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor       45 W         no-load switching frequency at AC       2 000 1/h         operating frequency       45 W		10 VV
no-load switching frequency at AC     2 000 1/h       operating frequency     2 000 1/h	power loss [W] at AC-3e at 400 V for rated value of the	45 W
operating frequency		2 000 1/h
• at AC-1 maximum 700 1/h		700 1/h
• at AC-3e		
— at 400 V maximum 500 1/h	— at 400 V maximum	500 1/h
— at 690 V maximum 500 1/h	— at 690 V maximum	500 1/h

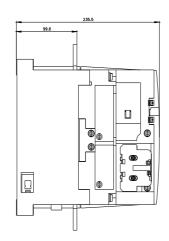
a at AC 2 at AC 2 maximum	200 1/h
<ul> <li>at AC-2 at AC-3 maximum</li> <li>at AC-2 at AC-3e maximum</li> </ul>	200 1/h
• at AC-2 at AC-3e maximum	200 1/11
type of voltage of the control supply voltage	AC
control supply voltage at AC	AC
at 50 Hz rated value	220 240 V
• at 60 Hz rated value	220 240 V
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	1 000 VA
• at 60 Hz	1 000 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 50 Hz	1
closing delay	
• at AC	35 90 ms
opening delay	
• at AC	65 90 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 <ul> <li>attachable</li> </ul>	
number of NC contacts for auxiliary contacts <ul> <li>attachable</li> <li>instantaneous contact</li> </ul>	
number of NC contacts for auxiliary contacts <ul> <li>attachable</li> <li>instantaneous contact</li> </ul> number of NO contacts for auxiliary contacts <ul> <li>attachable</li> <li>instantaneous contact</li> </ul> instantaneous contact <ul> <li>instantaneous contacts</li> <li>instantaneous contact</li> </ul>	3 3 3
number of NC contacts for auxiliary contacts         • attachable         • instantaneous contact         number of NO contacts for auxiliary contacts         • attachable         • attachable         • instantaneous contact         • instantaneous contact         • operational current at AC-12 maximum	3 3
number of NC contacts for auxiliary contacts <ul> <li>attachable</li> <li>instantaneous contact</li> </ul> number of NO contacts for auxiliary contacts <ul> <li>attachable</li> <li>attachable</li> <li>instantaneous contact</li> </ul> operational current at AC-12 maximum           operational current at AC-15	3 3 3 10 A
number of NC contacts for auxiliary contacts <ul> <li>attachable</li> <li>instantaneous contact</li> </ul> number of NO contacts for auxiliary contacts <ul> <li>attachable</li> <li>instantaneous contact</li> <li>operational current at AC-12 maximum</li> </ul> operational current at AC-15 <ul> <li>at 230 V rated value</li> </ul>	3 3 3 10 A 5.6 A
number of NC contacts for auxiliary contacts <ul> <li>attachable</li> <li>instantaneous contact</li> </ul> number of NO contacts for auxiliary contacts <ul> <li>attachable</li> <li>instantaneous contact</li> <li>instantaneous contact</li> <li>operational current at AC-12 maximum</li> </ul> operational current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> </ul>	3 3 3 10 A 5.6 A 3.6 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 500 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 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 690 V rated value         • at 690 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 500 V rated value         • at 690 V rated value         • at 690 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 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 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value         • 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 10 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         • at 690 V rated value         • at 440 V rated value         • at 490 V rated value         • at 490 V rated value         • at 400 V rated value         • at 490 V rated value         • at 490 V rated value         • at 490 V rated value         • at 48 V rated value	3 3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A 10 A 10 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         • 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         • at 24 V rated value         • at 48 V rated value         • at 4110 V rated value	3 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
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         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 110 V rated value         • at 125 V rated value	3 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 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 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         • at 24 V rated value         • at 48 V rated value         • at 4110 V rated value	3 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
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 500 V rated value         • at 690 V rated value         • at 690 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	3 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 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 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 220 V rated value         • at 600 V rated value	3 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 690 V rated value         • at 690 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 110 V rated value         • at 220 V rated value         • at 200 V rated value         • at 220 V rated value         • at 220 V rated value         • at 600 V rated value         • at 600 V rated value	3 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 0.23 A 2.5 A 0.32 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 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 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	3 3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A 10 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         • at 24 V rated value         • at 24 V rated value         • at 125 V rated value         • at 120 V rated value         • at 24 V rated value         • at 24 V rated value         • at 24 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         • at 48 V rated value         • at 24 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value	3 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
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 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 400 V rated value         • at 400 V rated value         • at 500 V rated value         • at 400 V rated value         • at 20 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value         • at 400 V rated value	3 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 1.14 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         • at 440 V rated value         • at 490 V rated value         • at 400 V rated value         • at 20 V rated value         • at 110 V rated value         • at 220 V rated value         • at 600 V rated value         • at 24 V rated value         • at 48 V rated value	3 3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A 10
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         • at 690 V rated value         • at 24 V rated value         • at 110 V rated value         • at 220 V rated value         • at 220 V rated value         • at 24 V rated value         • at 25 V rated value         • at 24 V rated value         • at 220 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 24 V rated value         • at 25 V rated value         • at 24 V rated value         • at 25 V rated value         • at 220 V rated value         • at 220 V rated value         • at 220 V rated value         • at 125 V rated value         • at 125 V rated value         • at 220 V rated value	3 3 3 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A 10

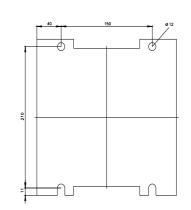
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	630 A
at 600 V rated value	630 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
– at 200/208 V rated value	231 hp
— at 220/230 V rated value	266 hp
— at 460/480 V rated value	530 hp
— at 575/600 V rated value	664 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	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)
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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
<ul> <li>side-by-side mounting</li> </ul>	Yes
height	276 mm
width	230 mm
depth	237 mm
required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
<ul> <li>for grounded parts</li> </ul>	
— 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	Occurrent to a hor
for main current circuit	Connection bar
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts      width of connection bar	Screw-type terminals
thickness of connection bar	30 mm
diameter of holes	6 mm 11 mm
number of holes	1
type of connectable conductor cross-sections	
for main contacts	
- stranded	70 240 mm²
<ul> <li>— stranded</li> <li>— finely stranded with core end processing</li> </ul>	50 240 mm <sup>2</sup>
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
- meny stranded with core end processing	

connectable conductor cross-section for auxiliary contacts		
solid or stranded	0.5 2.5 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm <sup>2</sup>	
type of connectable conductor cross-sections		
for auxiliary contacts		
— 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 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )	
at AWG cables for auxiliary contacts	2x (18 12)	
AWG number as coded connectable conductor cross section		
<ul> <li>for main contacts</li> </ul>	500	
<ul> <li>for auxiliary contacts</li> </ul>	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 se left auxiliary switch block respectively	eries for the right and
<ul> <li>positively driven operation according to IEC 60947- 5-1</li> </ul>	No	
protection class IP on the front according to IEC 60529	IP00	
Certificates/ approvals		
General Product Approval		Functional Safety/Safety of Machinery
Tool Qualification		
Test Certificates Marine / Ship	oping	
Special Test Certific- ate Miscellaneous		
VERITAS	Ph3 N#R3	DMV-GL DMV-GL
other	FN3 NIMITS	DINV-GL
	PR3 N/4/5	DHV-GL
other	PR3 NIMES	DIVISIL
other		DIWOLCORK
other         Confirmation       Confirmation         Further information       Information- and Downloadcenter (Catalogs, Brochures, Journal Science)		DINV-GL
other Confirmation Confirmation Further information		DIWOLCORKO
other           Confirmation         Confirmation           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/produc           Cax online generator         Confirmation		DWOLDDAOR
other           Confirmation         Confirmation           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/produc           Cax online generator         http://support.automation.siemens.com/WW/CAXorder/defau           Service&Support (Manuals, Certificates, Characteristics, Characteristics, Characteristics)		
other         Confirmation       Confirmation         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/produc         Cax online generator       https://support.automation.siemens.com/WW/CAXorder/defau	- ) <u>t?mlfb=3TF6833-1QL7</u> <u>lt.aspx?lang=en&amp;mlfb=3TF6833-1QL7</u> , FAQs,) <u>1QL7</u> Is, 3D models, device circuit diagrams, EPLAN ma	Cros,)
other         Confirmation       Confirmation         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/produc         Cax online generator       http://support.automation.siemens.com/WW/CAXorder/defau         Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/ww/en/ps/3TF6833-Image database (product images, 2D dimension drawing	- <u>t?mlfb=3TF6833-1QL7</u> <u>lt.aspx?lang=en&amp;mlfb=3TF6833-1QL7</u> , FAQs,) <u>1QL7</u> Is, 3D models, device circuit diagrams, EPLAN mathe <u>ib=3TF6833-1QL7⟨=en</u> current	cros,)

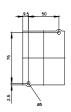


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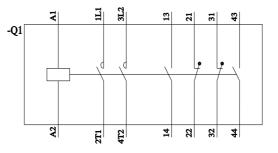




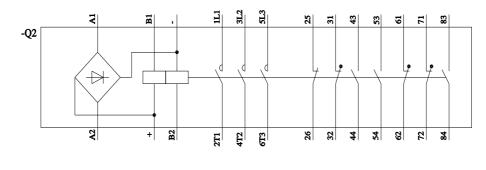




3TY7684-0Qxx



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



last modified:

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