# SIEMENS

### Data sheet

## 3TF6833-1DB4

vacuum contactor AC-3e/AC-3 630 A, 335 kW / 400 V, Ue 690 V, 3-pole, Uc: 24 V DC drive: conventional installed with series resistor with reversing contactor 3TC4417-4A DC economy circuit auxiliary contacts 3 NO + 3 NC main circuit: busbar control and auxiliary circuit: screw terminal



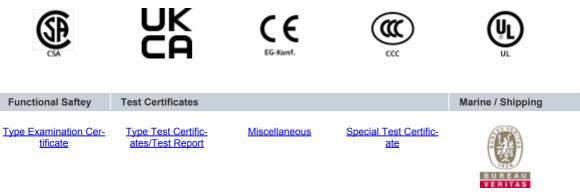
product designation	Vacuum contactor
product type designation	3TF6
General technical data	
size of contactor	14
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	No
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	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	
<ul> <li>in networks with grounded star point between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	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 (operating 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
SVHC substance name	Lead - 7439-92-1
Weight	19.532 kg
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

operating voltage         60           • at A-C3 rated value maximum         600 V           • at A-C3 rated value maximum         600 V           • at A-C3 rated value maximum         600 V           • at A-C3         600 V rated value           • at A-C4         600 V rated value         600 A           • at A-C4         600 V rated value         610 A           • at A-C4         600 V rated value         610 A           • at A-C4         600 V rated value         610 A           • at A-C4         600 V rated value         610 A           • at A-C4         600 V rated value         610 A           • at A-D4 ru	type of voltage for main current circuit	AC
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operational currentNon A• at AC-1500 A• up to 600 V at ambient temperature 65 °C rated500 A• up to 600 V at ambient temperature 65 °C rated500 A• at AC-3500 A• at AC-3510 A• at AC-3<		
• at AC-1· at BC-1·		
value         - al AdD V radid Value         600 A           - al AdD V radid Value         652 A           - al AdD V radid Value         610 A           - al AdD-Ba         610 A           - al AdD-Ba         613 A           - al ADD V for current pack Value n=20 ratid Value         624 A           - up to 600 V for current pack Value n=20 ratid Value         624 A           - al ADD V ratid Value         624 A           - al ADD V ratid Value         624 A           - al ADD V ratid Value         620 A           - al ADD V ratid Value         600 A           - al ADD V ratid Value         600 A	— up to 690 V at ambient temperature 40 °C rated	700 A
- al 400 Vraid value600 A- al 500 Vraid value600 A- al 600 Vraid value600 A- al 400 Vraid value52 A- al 400 Vraid value522 A- al 500 Vraid value522 A- al 400 Vraid value513 A- al 400 Vraid value513 A- al 500 Vraid value513 A- al 500 Vraid value513 A- al 500 Vraid value =00 raid value512 A- al 500 Vraid value =010 raid value512 A- al 500 Vraid value =010 raid value512 A- al 500 Vroid urient pask value =910 raid value512 A- al 500 Vroid urient pask value =910 raid value512 A- al 500 Vroid urient pask value =910 raid value512 A- al 500 Vroid urient pask value =910 raid value512 A- al 500 Vroid urient pask value =910 raid value512 A- al 500 Vroid value500 A- al 500 Vroid value500 A- al 500 Vroid value500 A- al 500 Vraid value500 A- al 600 Vraid value <td>— up to 690 V at ambient temperature 55 °C rated</td> <td>630 A</td>	— up to 690 V at ambient temperature 55 °C rated	630 A
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	— at 500 V rated value	630 A
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	— at 1000 V rated value	435 A
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	— at 500 V rated value	552 A
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• 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 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 conductor35 Wpower loss [W] at AC-3e at 400 V for rated value of the operating frequency at AC2 000 1/hoperating frequency • at AC-1 maximum700 1/h	operating apparent power at AC-6a	
operating apparent power at AC-6a226 kVA• 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 operating frequency at AC35 Wno-load switching frequency at AC2 000 1/hoperating frequency • at AC-1 maximum700 1/h	<ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>	338 kVA
• 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 conductor35 Wno-load switching frequency at AC2 000 1/hoperating frequency • at AC-1 maximum700 1/h	<ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>	586 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 conductor35 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/hoperating frequency • at AC-1 maximum700 1/h	operating apparent power at AC-6a	
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       35 W         no-load switching frequency at AC       2 000 1/h         operating frequency       700 1/h	<ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>	226 kVA
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       35 W         no-load switching frequency at AC       2 000 1/h         operating frequency       700 1/h	<ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>	390 kVA
operational current per conductor         35 W           power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor         35 W           no-load switching frequency at AC         2 000 1/h           operating frequency         2 000 1/h           • at AC-1 maximum         700 1/h	thermal short-time current limited to 10 s	5 040 A
power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor       35 W         no-load switching frequency at AC       2 000 1/h         operating frequency       2 000 1/h         • at AC-1 maximum       700 1/h		45 W
no-load switching frequency at AC     2 000 1/h       operating frequency     -       • at AC-1 maximum     700 1/h	power loss [W] at AC-3e at 400 V for rated value of the	35 W
operating frequency     • at AC-1 maximum       700 1/h		2 000 1/h
• at AC-1 maximum 700 1/h		
		700 1/h
	• at AC-3e	

at 400 V maximum	500 1/b
— at 400 V maximum	500 1/h
<ul> <li>— at 690 V maximum</li> <li>at AC-2 at AC-3 maximum</li> </ul>	500 1/h 200 1/h
• at AC-2 at AC-3e maximum	200 1/h
Control circuit/ Control	20
type of voltage of the control supply voltage	DC
control supply voltage at DC rated value	24 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.8
• full-scale value	1.1
apparent holding power	
<ul> <li>at minimum rated control supply voltage at DC</li> </ul>	28 VA
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
<ul> <li>instantaneous contact</li> </ul>	3
number of NO contacts for auxiliary contacts	
attachable	3
<ul> <li>instantaneous contact</li> </ul>	3
operational current at AC-12 maximum	10 A
operational current at AC-15	
at 230 V rated value	5.6 A
<ul> <li>at 400 V rated value</li> </ul>	3.6 A
• at 500 V rated value	2.5 A
• at 690 V rated value	2.3 A
operational current at DC-12 at 440 V rated value	0.33 A
operational current at DC-12	
at 24 V rated value	10 A
• at 48 V rated value	10 A
at 110 V rated value	3.2 A
at 125 V rated value	2.5 A
at 220 V rated value	0.9 A
• at 600 V rated value	0.22 A
operational current at DC-13	10.4
at 24 V rated value	10 A
at 48 V rated value	5 A
<ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul>	1.14 A 0.98 A
at 125 V rated value     at 220 V rated value	0.98 A
at 600 V rated value	0.48 A 0.07 A
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5
conductionalising of durining contacto	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	
<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
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	
for main current circuit	Connection bar
for main current circuit	
<ul><li> for main current circuit</li><li> for auxiliary and control circuit</li></ul>	screw-type terminals
for main current circuit	screw-type terminals Screw-type terminals
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> </ul>	screw-type terminals Screw-type terminals 30 mm
for main current circuit     for auxiliary and control circuit     at contactor for auxiliary contacts     width of connection bar     thickness of connection bar	screw-type terminals Screw-type terminals 30 mm 6 mm
for main current circuit     for auxiliary and control circuit     at contactor for auxiliary contacts     width of connection bar     thickness of connection bar     diameter of holes	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm
for main current circuit     for auxiliary and control circuit     at contactor for auxiliary contacts     width of connection bar     thickness of connection bar     diameter of holes     number of holes	screw-type terminals Screw-type terminals 30 mm 6 mm
for main current circuit         for auxiliary and control circuit         at contactor for auxiliary contacts         width of connection bar         thickness of connection bar         diameter of holes         number of holes         type of connectable conductor cross-sections for main contacts	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1
for main current circuit         for auxiliary and control circuit         at contactor for auxiliary contacts         width of connection bar         thickness of connection bar         diameter of holes         number of holes         type of connectable conductor cross-sections for main contacts	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1 70 240 mm <sup>2</sup>
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>type of connectable conductor cross-sections for main contacts         <ul> <li>stranded</li> <li>finely stranded with core end processing</li> </ul> </li> </ul>	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> </ul>	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1 70 240 mm <sup>2</sup> 50 240 mm <sup>2</sup>
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> </ul>	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1 70 240 mm <sup>2</sup>
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> </ul>	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1 70 240 mm <sup>2</sup> 50 240 mm <sup>2</sup> 240 50 mm <sup>2</sup>
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>type of connectable conductor cross-sections for main contacts         <ul> <li>stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> </ul> </li> </ul>	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1 70 240 mm <sup>2</sup> 50 240 mm <sup>2</sup> 240 50 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup>
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>type of connectable conductor cross-sections for main contacts         <ul> <li>stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> </ul>	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1 70 240 mm <sup>2</sup> 50 240 mm <sup>2</sup> 240 50 mm <sup>2</sup>
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<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid</li> <li>minely stranded with core end processing</li> </ul>	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1 70 240 mm <sup>2</sup> 50 240 mm <sup>2</sup> 240 50 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 1.0 mm <sup>2</sup> ), 2x (1.0 2.5 mm <sup>2</sup> )
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<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>a solid</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>a for auxiliary contacts</li> <li>a solid</li> <li>a finely stranded with core end processing</li> <li>a for auxiliary contacts</li> <li>a solid</li> <li>b for auxiliary contacts</li> <li>a solid</li> <li>b for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> </ul>	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1 70 240 mm <sup>2</sup> 50 240 mm <sup>2</sup> 240 50 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 1.0 mm <sup>2</sup> ), 2x (1.0 2.5 mm <sup>2</sup> ) 2x (0.5 1.0 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (18 12)
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>and</li> <li>and</li> <li>and</li> <li>bala the core end processing</li> <li>bala the conductor cross-sections</li> <li>and</li> <li>bala the conductor cross-sections</li> </ul>	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1 70 240 mm <sup>2</sup> 50 240 mm <sup>2</sup> 240 50 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 1.0 mm <sup>2</sup> ), 2x (1.0 2.5 mm <sup>2</sup> ) 2x (0.5 1.0 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (18 12) 500
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>slinely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>a solid</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>a solid</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> </ul>	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1 70 240 mm <sup>2</sup> 50 240 mm <sup>2</sup> 240 50 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 1.0 mm <sup>2</sup> ), 2x (1.0 2.5 mm <sup>2</sup> ) 2x (0.5 1.0 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (18 12) 500
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>a solid</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>a solid</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>a for main contacts</li> <li>a for auxiliary contacts</li> <li>a for auxiliary contacts</li> </ul>	screw-type terminals Screw-type terminals 30 mm 6 mm 11 mm 1 70 240 mm <sup>2</sup> 50 240 mm <sup>2</sup> 240 50 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 1.0 mm <sup>2</sup> ), 2x (1.0 2.5 mm <sup>2</sup> ) 2x (0.5 1.0 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (18 12) 500
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>width of connection bar</li> <li>thickness of connection bar</li> <li>diameter of holes</li> <li>number of holes</li> <li>type of connectable conductor cross-sections for main contacts         <ul> <li>stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-sections for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <li>connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>a solid</li> <li>for auxiliary contacts</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>Safety related data     <ul> <li>product function</li> </ul> </li></ul>	screw-type terminals 30 mm 6 mm 11 mm 1 70 240 mm <sup>2</sup> 50 240 mm <sup>2</sup> 240 50 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 0.5 2.5 mm <sup>2</sup> 2x (0.5 1.0 mm <sup>2</sup> ), 2x (1.0 2.5 mm <sup>2</sup> ) 2x (0.5 1.0 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ) 2x (18 12) 500 18 12 Yes; One NC contact each must be connected in series for the right and left

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	Туре А
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00
Approvals Certificates	
General Product Approval	

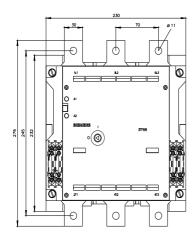


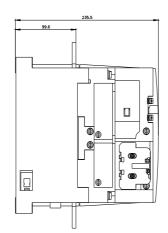


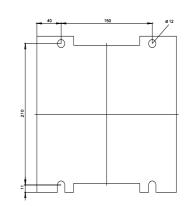
Further information
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TF6833-1DB4
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TF6833-1DB4
Service&Support (Manuals, Certificates, Characteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/en/ps/3TF6833-1DB4
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TF6833-1DB4⟨=en
Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current
https://support.industry.siemens.com/cs/ww/en/ps/3TF6833-1DB4/char

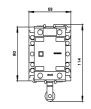
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TF6833-1DB4&objecttype=14&gridview=view1

EHC

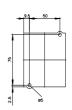




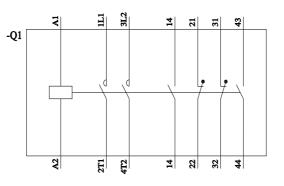




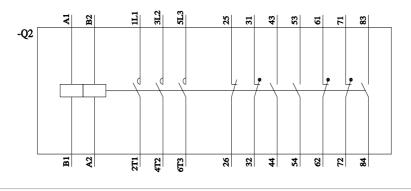




3TC4417-0A..



#### 3TF6(8,9)33-(1,8)D..



#### last modified:

6/19/2024 🖸