SIEMENS

Data sheet

3TF6844-0CF7



vacuum contactor AC-3e/AC-3 630 A, 335 kW / 400 V, Ue 690 V, 3-pole, Uc: 110-132 V AC(50/60 Hz) drive: conventional auxiliary contacts 4 NO + 4 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	
 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 protective separation	
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with grounded star point between main and auxiliary circuit 	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 (operating cycles)	
 of contactor typical 	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	19.971 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

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	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	700 A
— up to 690 V at ambient temperature 55 $^\circ\mathrm{C}$ rated value	630 A
• at AC-3	
— 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	435 A
● at AC-3e	
— at 400 V rated value	552 A
— at 500 V rated value	552 A
— at 690 V rated value	552 A
— at 1000 V rated value	435 A
• at AC-4 at 400 V rated value	610 A
• at AC-6a	
— up to 500 V for current peak value n=20 rated value	513 A
— up to 690 V for current peak value n=20 rated value	513 A
● at AC-6a	
 — up to 400 V for current peak value n=30 rated value 	342 A
— up to 500 V for current peak value n=30 rated value	342 A
— up to 690 V for current peak value n=30 rated value	342 A
connectable conductor cross-section in main circuit at AC-	
1	
• at 40 °C minimum permissible	480 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	300 A
at 690 V rated value	300 A
operating power	
• at AC-3	200 1444
- at 230 V rated value	200 kW
— at 400 V rated value	355 kW
— at 500 V rated value	400 kW
— at 690 V rated value	600 kW
— at 1000 V rated value	600 kW
• at AC-3e	400 1111
— at 230 V rated value	160 kW
— at 400 V rated value	315 kW
— at 690 V rated value	560 kW
— at 1000 V rated value	600 kW
operating apparent power at AC-6a	
• up to 400 V for current peak value n=20 rated value	338 kVA
• up to 690 V for current peak value n=20 rated value	586 kVA
operating apparent power at AC-6a	
 up to 400 V for current peak value n=30 rated value 	226 kVA
 up to 690 V for current peak value n=30 rated value 	390 kVA
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	500 1/h
operating frequency	
• at AC-1 maximum	500 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	200 1/11
type of voltage of the control supply voltage	AC
control supply voltage at AC	A0
at 50 Hz rated value	110 132 V
at 50 Hz rated value	110 132 V
operating range factor control supply voltage rated value of	110 132 V
magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
apparent pick-up power	
 at minimum rated control supply voltage at AC 	
— at 50 Hz	850 VA
— at 60 Hz	850 VA
 at maximum rated control supply voltage at AC 	
— at 60 Hz	950 VA
— at 50 Hz	950 VA
inductive power factor with closing power of the coil	
• at 50 Hz	1
• at 60 Hz	1
apparent holding power	
 at minimum rated control supply voltage at AC 	
— at 50 Hz	7 VA
— at 60 Hz	7 VA
 at maximum rated control supply voltage at AC 	
— at 50 Hz	8 VA
— at 60 Hz	8 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.4
• at 60 Hz	0.4
closing delay	
• at AC	70 120 ms
opening delay	
• at AC	50 130 ms
arcing time	10 15 ms
arcing time control version of the switch operating mechanism	
control version of the switch operating mechanism	10 15 ms Standard A1 - A2
control version of the switch operating mechanism Auxiliary circuit	
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts	Standard A1 - A2
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable	Standard A1 - A2 4
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact	Standard A1 - A2 4
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts	Standard A1 - A2 4 4
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable	Standard A1 - A2 4 4 4
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact	Standard A1 - A2 4 4 4 4
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact operational current at AC-12 maximum	Standard A1 - A2 4 4 4 4
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact • attachable • instantaneous contact • attachable • instantaneous contact operational current at AC-12 maximum operational current at AC-15	Standard A1 - A2 4 4 4 4 10 A
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact • attachable • instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	Standard A1 - A2 4 4 4 4 4 10 A 5.6 A
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO 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	Standard A1 - A2 4 4 4 4 4 10 A 5.6 A 3.6 A
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO 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	Standard A1 - A2 4 4 4 4 4 10 A 5.6 A 3.6 A 2.5 A
control version of the switch operating mechanism Auxiliary circuit 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	Standard A1 - A2 4 4 4 4 5.6 A 5.6 A 5.6 A 5.6 A 2.5 A 2.3 A
control version of the switch operating mechanism Auxiliary circuit 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	Standard A1 - A2 4 4 4 4 5.6 A 5.6 A 5.6 A 5.6 A 2.5 A 2.3 A
control version of the switch operating mechanism Auxiliary circuit 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	Standard A1 - A2 4 4 4 4 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO 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 690 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value	Standard A1 - A2 4 4 4 4 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A 10 A
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO 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 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 4110 V rated value	Standard A1 - A2 4 4 4 4 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A 10 A 10 A 3.2 A
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact • 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 690 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value	Standard A1 - A2 4 4 4 4 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A 10 A 10 A 2.5 A 2.5 A 2.5 A 2.5 A
control version of the switch operating mechanism Auxiliary circuit 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 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 at 220 V rated value	Standard A1 - A2 4 4 4 4 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A 10 A 10 A 0.33 A
control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts • attachable • instantaneous contact number of NO contacts for auxiliary contacts • attachable • instantaneous contact • 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 690 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value	Standard A1 - A2 4 4 4 4 10 A 5.6 A 3.6 A 2.5 A 2.3 A 0.33 A 10 A 10 A 2.5 A 2.5 A 2.5 A 2.5 A

• at 24 V rated value	10 A
• at 48 V rated value	5 A
• at 110 V rated value	1.14 A
• at 125 V rated value	0.98 A
• at 220 V rated value	0.48 A
 at 600 V rated value 	0.07 A
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5
	mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	630 A
• at 600 V rated value	630 A
yielded mechanical performance [hp]	
 for 3-phase AC motor 	
— at 200/208 V rated value	231 hp
— at 220/230 V rated value	266 hp
— at 460/480 V rated value	530 hp
— at 575/600 V rated value	664 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG: 1000 A (690 V, 100 kA)
— with type of assignment 2 required	gG: 500 A (690 V, 100 kA), aM: 630 A (690 V, 50 kA), BS88: 500 A (415 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 surface +/- 22.5° tiltable to the front and back
fastening method side-by-side mounting	Yes
fastening method	screw fixing
height	276 mm
width	230 mm
depth	237 mm
required spacing	
 with side-by-side mounting 	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
 for grounded parts 	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
for auxiliary and control circuit	screw-type terminals
	screw-type terminals Screw-type terminals
• for auxiliary and control circuit	
for auxiliary and control circuitat contactor for auxiliary contacts	Screw-type terminals
 for auxiliary and control circuit at contactor for auxiliary contacts width of connection bar 	Screw-type terminals 30 mm
 for auxiliary and control circuit at contactor for auxiliary contacts width of connection bar thickness of connection bar 	Screw-type terminals 30 mm 6 mm
 for auxiliary and control circuit at contactor for auxiliary contacts width of connection bar thickness of connection bar diameter of holes 	Screw-type terminals 30 mm 6 mm 11 mm
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 30 mm 6 mm 11 mm

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 	finely stranded with core end processing connectable conductor cross-section for main contacts	JU 240 IIIII
connectable conductor cross-section for auxillary contacts and or standed with core and processing and or standed with core and processing b and it contactable conductor cross-sections and it contactable conductor pole conductor cross-sections and it contactable conductor pole conducto		240 50 mm ²
 elidio standadi eli		240 30 mm
• findly standal with once and processing 0.5 2.5 mm ² type formedable conductor cross-sections 2x (0.5 1.0 mm ²) 2x (0.7 2.5 mm ²) • andi 2x (0.5 1.0 mm ²) 2x (0.7 2.5 mm ²) • AVAC cables for auxiliary contacts 2x (0.5 1.0 mm ²) 2x (0.7 2.5 mm ²) • AVAC cables for auxiliary contacts 500 • auxiliary formation 700 • auxiliary formation 700 • auxiliary formatint aux coording to SD 313	-	$0.5 - 2.5 \text{ mm}^2$
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• of auxiliary contacts 2x (0.513 mm?), 2x (10.72.5 mm?) • andi 2x (0.510 mm?), 2x (0.72.5 mm?) • andi 2x (0.510 mm?), 2x (0.72.5 mm?) • andian contacts 500 • andian contacts 90 • and contact conting to N13020 40% • andian contacts 90 • andian contacts 100 FIT		
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e for AVMC cables for auxiliary contacts 2x (18 12) Average of the main contacts 500 is or rain contacts 10 12 Statey related data 10 12 Product function 9000000000000000000000000000000000000		
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 i or audilary contacts 1 a 12 Statey related data Forduct function in third contact according to ECE 6047-41 opatively driven operation according to ECE 6047-51 No vasible for adalty function vasible for adalty for SN 31920 vasible for adalty for SN 3282 vasible for adalty for SN 31920 vasible for adalty for SN 3282 vasible for adalty for SN 31920 vasible for adalty for SN 3282 vasible for adalty for SN 31920 vasible for vasible for adalty for SN 31920 vasib	AWG number as coded connectable conductor cross	
Safety related data Product function • intire or contact according to IEC 60947-5-1 • explore iffer maximum • explore iffer maximum 20 a • explore iffer maximum 40 % • explore iffer maximum 40 % • explore iffer maximum • explore iffer maximum • explore iffer maximum • explore iffer maximum • explore iffer 3 • explore iffer maximum	• for main contacts	500
preduct function initror contact according to IEC 60947-5-1 continuely driven operation according to IEC 60947-5-1 sublack for safety function sublack for safety function continuely driven operation according to IEC 60947-5-1 No sublack for safety function 20 a test war-related sortice IIf on according to SN 1920 with high demand rate according to SN 1920 with high demand rate according to SN 1920 with high demand rate according to SN 1920 100 PTT IBO FTT IBO FTT	 for auxiliary contacts 	18 12
 mirror contact according to IEC 69947-4-1 positively driven operation according to IEC 60947-5-1 weinal weina drive according to IEC 60947-5-1 weinal drive according to IEC 60947-5-1 veinal drive according to ISO 13120 40 % with high demand rate according to ISO 13849-1 1000 1000 fistion atte according to ISO 13849-1 cettor to the front according to IEC 61508-2 propertion on the front according to IEC 60529 representing the front according to IEC 60529 representing to IEC 61508-2 representing to IEC	Safety related data	
 mirror contact according to IEC 69947-4-1 positively driven operation according to IEC 60947-5-1 weinal weina drive according to IEC 60947-5-1 weinal drive according to IEC 60947-5-1 veinal drive according to ISO 13120 40 % with high demand rate according to ISO 13849-1 1000 1000 fistion atte according to ISO 13849-1 cettor to the front according to IEC 61508-2 propertion on the front according to IEC 60529 representing the front according to IEC 60529 representing to IEC 61508-2 representing to IEC		
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test war-related service life necessary Yes proportion of dangerous failures 40 % • with wide demand rate according to SN 31920 73 % BIO value with high demand rate according to SN 31920 1000 000 Filture rate [FI] with low demand rate according to SN 31920 1000 000 Filture rate [FI] with low demand rate according to SN 31920 1000 000 Filture rate [FI] with low demand rate according to SN 31920 0 % SO 13849 0 device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes IEC 81508 3 safety device type according to IEC 61508-2 Type A Electrical Safety Ipon POID [P20 with cover proprovals Cordificates Ipon POID [P20 with cover Approvals Cordificates Ipon POID [P20 with cover fucce rate Cording to IEC 61529 Ipon PoiD [P20 with cover fucce rate Cordificates Ipon PoiD [P20 with cover functional Safety Test Certificates Macrine / Shipping functer / Shipping Ipon PoiD [P20 with cover Ipon PoiD [P20 with cover functer / Shipping <td< td=""><td> suitable for safety function </td><td>Yes</td></td<>	 suitable for safety function 	Yes
proportion of dangerous failures 40 % • with high demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 1000 000 failure rate [FT] with low demand rate according to SN 31920 1000 000 failure rate [FT] with low demand rate according to SN 31920 100 FT strate 3 000 000 failure rate [FT] with low demand rate according to SN 31920 3 overdimensioning according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes IEEC 61508 safety device type according to IEC 6158-2 Type A Electrical Safety Protection class IP on the front according to IEC 60529 IP00. IP20 with cover fouch protection on the front according to IEC 60529 IP00. IP20 with cover Approval General Product Approval Seciel Test Certificates Marine / Shipping If calls Test Certificates Marine / Shipping If calls If calls Seciel Test Certific ats Test Report If calls If calls Seciel Test Certific ats Test Report If calls If calls Seciel Test Certific ats Test Report If calls If calls Seciel Test Certific ats Test Report If calls If calls Seciel Test Certific	service life maximum	20 a
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• with high demand rate according to SN 31920 73 % BTO value with high demand rate according to SN 31920 1000 000 SH 320 1000 FT 3120 1000 FT SH 320 IEC 6108-2 SH 320 IEC 6108-2 SH 200 IEC 6108-2 SH 200 IEC 6108-2 SH 200 IEC 6100-2<		40 %
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safety device type according to IEC 61508-2 Type A Electrical Safety protection class IP on the front according to IEC 60529 IPO0; IP20 with cover touch protection on the front according to IEC 60529 inger-safe, for vertical contact from the front with cover Approvals Contributed General Product Approval IFEC 60529 IFEC 6052	overdimensioning according to ISO 13849-2 necessary	Yes
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touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover Approvals Certificates General Product Approval EGE		IP00: IP20 with cover
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tificate ate ates/Test Report Image: Confirmation Marine / Shipping other Image: Confirmation Miscellaneous Confirmation	Functional Saftey Test Certificates	Marine / Shipping
Confirmation Miscellaneous Confirmation Further information Event Event		
Further information	Marine / Shipping other	
		ion <u>Miscellaneous</u> <u>Confirmation</u>
Information on the packaging		
	Further information	

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=3TF6844-0CF7 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TF6844-0CF7

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

https://supp t.industry.siemens.com/cs/ww/en/ps/3TF6844

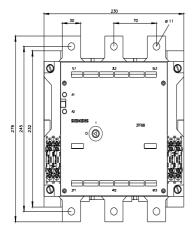
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TF6844-0CF7&lang=en

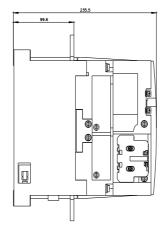
Characteristic: Tripping characteristics, I²t, Let-through current

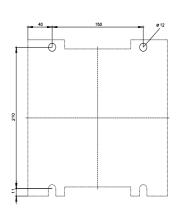
https://support.industry.siemens.com/cs/ww/en/ps/3TF6844-0CF7/char

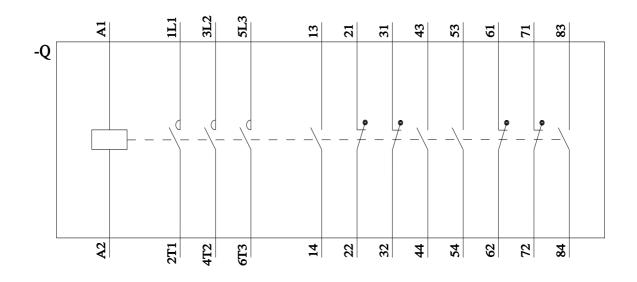
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TF6844-0CF7&objecttype=14&gridview=view1









last modified:

10/30/2024 🖸