SIEMENS

Data sheet

3TF6933-1DF4

vacuum contactor AC-3e 630 A, 335 kW / 400 V, AC-3 820 A, 450 kW / 400 V, Ue 690 V, 3-pole, Uc: 110 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	
 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 DC	8.6g / 5 ms, 5.1g / 10 ms
shock resistance with sine pulse	
• at DC	13.5 g / 5 ms, 7.8 g / 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	22.6 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	090 V
• at AC-1	
- up to 690 V at ambient temperature 40 °C rated	910 A
value	
— up to 690 V at ambient temperature 55 $^\circ C$ rated value	850 A
• at AC-3	
— at 400 V rated value	820 A
— at 500 V rated value	820 A
— at 690 V rated value	820 A
— at 1000 V rated value	580 A
• at AC-3e	
— at 400 V rated value	630 A
— at 500 V rated value	630 A
— at 690 V rated value	630 A
— at 1000 V rated value	580 A
at AC-4 at 400 V rated value	690 A
• at AC-6a	
— up to 500 V for current peak value n=20 rated value	675 A
— up to 690 V for current peak value n=20 rated value	675 A
• at AC-6a	
up to 400 V for current peak value n=30 rated value	450 A
— up to 500 V for current peak value n=30 rated value	450 A
— up to 690 V for current peak value n=30 rated value	450 A
connectable conductor cross-section in main circuit at AC-	
1	
• at 40 °C minimum permissible	600 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	360 A
at 400 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 500 V rated value	600 kW
— at 690 V rated value	800 kW
— at 1000 V rated value	800 kW
• at AC-3e	
— at 230 V rated value	200 kW
— at 400 V rated value	355 kW
— at 690 V rated value	600 kW
— at 1000 V rated value	800 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 operational current per conductor	70 W
power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor	42 W
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/b	
— at 400 V maximum	500 1/h	
 — at 690 V maximum at AC-2 at AC-3 maximum 	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	110 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		
at minimum rated control supply voltage at DC	20.6 VA	
closing power of magnet coil at DC	960 W	
holding power of magnet coil at DC	20.6 W	
closing delay		
• at DC	86 280 ms	
opening delay		
• at DC	19 25 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	
 instantaneous contact 	3	
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 	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	
 at 110 V rated value at 125 V rated value 	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	820 A	
• at 600 V rated value	820 A	
yielded mechanical performance [hp]		
• for 3-phase AC motor		
— at 200/208 V rated value	290 hp	
— at 220/230 V rated value	350 hp	
— at 460/480 V rated value	700 hp	
— at 575/600 V rated value	860 hp	

contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — 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	kA) 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	295 mm
width	230 mm
depth	237 mm
required spacing	
 with side-by-side mounting 	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
 for grounded parts 	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
Connections/ Terminals type of electrical connection	Connection bar
Connections/ Terminals type of electrical connection • for main current circuit	Connection bar
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit	screw-type terminals
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts	screw-type terminals Screw-type terminals
Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts width of connection bar	screw-type terminals Screw-type terminals 40 mm
Connections/ Terminals type of electrical connection 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 40 mm 6 mm
Connections/ Terminals type of electrical connection • 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 40 mm 6 mm 13.5 mm
Connections/ Terminals type of electrical connection • 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 40 mm 6 mm
Connections/ Terminals type of electrical connection of 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 40 mm 6 mm 13.5 mm 1
Connections/ Terminals type of electrical connection • 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 • stranded	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 50 240 mm ²
Connections/ Terminals type of electrical connection • 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 • stranded • finely stranded with core end processing	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1
Connections/ Terminals type of electrical connection 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 stranded finely stranded with core end processing connectable conductor cross-section for main contacts	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 50 240 mm ² 50 240 mm ²
Connections/ Terminals type of electrical connection 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 stranded finely stranded with core end processing connectable conductor cross-section for main contacts e finely stranded with core end processing	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 50 240 mm ²
Connections/ Terminals type of electrical connection 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 40 mm 6 mm 13.5 mm 1 50 240 mm ² 50 240 mm ² 240 50 mm ²
Connections/ Terminals type of electrical connection 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 40 mm 6 mm 13.5 mm 1 50 240 mm ² 50 240 mm ² 240 50 mm ² 0.5 2.5 mm ²
Connections/ Terminals type of electrical connection • 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 • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 50 240 mm ² 50 240 mm ² 240 50 mm ²
Connections/ Terminals type of electrical connection • 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 • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-section for auxiliary contacts	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 50 240 mm ² 50 240 mm ² 240 50 mm ² 0.5 2.5 mm ²
Connections/ Terminals type of electrical connection • 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 • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 50 240 mm ² 50 240 mm ² 240 50 mm ² 0.5 2.5 mm ²
Connections/ Terminals type of electrical connection • 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 • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 50 240 mm ² 50 240 mm ² 240 50 mm ² 0.5 2.5 mm ² 2x (0.5 1.0 mm ²), 2x (1.0 2.5 mm ²)
Connections/ Terminals type of electrical connection • 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 • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid or stranded • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts - solid - finely stranded with core end processing	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 50 240 mm ² 50 240 mm ² 240 50 mm ² 0.5 2.5 mm ²
Connections/ Terminals type of electrical connection • 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 • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid - finely stranded with core end processing • for auxiliary contacts - solid - finely stranded with core end processing • for AWG cables for auxiliary contacts	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 50 240 mm ² 50 240 mm ² 240 50 mm ² 0.5 2.5 mm ² 2x (0.5 1.0 mm ²), 2x (1.0 2.5 mm ²)
Connections/ Terminals type of electrical connection • 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 • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid or stranded • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts - solid - finely stranded with core end processing	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 50 240 mm ² 50 240 mm ² 240 50 mm ² 0.5 2.5 mm ² 2x (0.5 1.0 mm ²), 2x (1.0 2.5 mm ²) 2x (0.5 1.0 mm ²), 2x (0.75 2.5 mm ²)
Connections/ Terminals type of electrical connection • 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 • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 50 240 mm ² 50 240 mm ² 240 50 mm ² 0.5 2.5 mm ² 2x (0.5 1.0 mm ²), 2x (1.0 2.5 mm ²) 2x (0.5 1.0 mm ²), 2x (0.75 2.5 mm ²)
Connections/ Terminals type of electrical connection • 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 • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 1 50 240 mm ² 50 240 mm ² 240 50 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 1.0 mm ²), 2x (1.0 2.5 mm ²) 2x (0.5 1.0 mm ²), 2x (0.75 2.5 mm ²) 2x (18 12)
Connections/ Terminals type of electrical connection • 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 • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-sections of auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid - finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for main contacts • for auxiliary contacts	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 1 50 240 mm ² 50 240 mm ² 240 50 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 1.0 mm ²), 2x (1.0 2.5 mm ²) 2x (0.5 1.0 mm ²), 2x (0.75 2.5 mm ²) 2x (18 12) 500
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Connections/ Terminals type of electrical connection • 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 • stranded • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid — finely stranded with core end processing • for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts • for auxiliary contacts Safety related data	screw-type terminals Screw-type terminals 40 mm 6 mm 13.5 mm 1 50 240 mm ² 50 240 mm ² 240 50 mm ² 0.5 2.5 mm ² 0.5 2.5 mm ² 2x (0.5 1.0 mm ²), 2x (1.0 2.5 mm ²) 2x (0.5 1.0 mm ²), 2x (0.75 2.5 mm ²) 2x (18 12) 500 18 12

suitable for safety function	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	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	

Functional Saftey	Test Certificates			Marine / Shipping	
<u>Type Examination Cer-</u> <u>tificate</u>	Type Test Certific- ates/Test Report	<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>	BUREAU VERITAS	
Marine / Shipping		other		Dangerous goods	
PRS	RMPS	<u>Miscellaneous</u>	<u>Confirmation</u>	Transport Information	

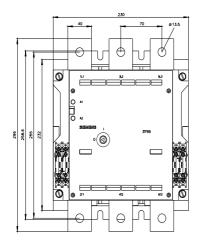
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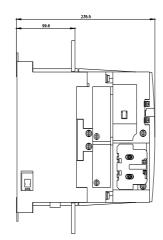
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ttps://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TF	<u>6933-1DF4</u>
Cax online generator	
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang	<u>j=en&mlfb=3TF6933-1DF4</u>
Service&Support (Manuals, Certificates, Characteristics, FAQs,)	
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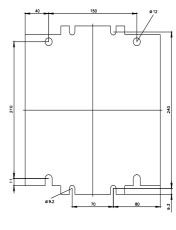
Characteristic: Tripping characteristics, I*t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3TF6933-1DF4/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TF6933-1DF4&objecttype=14&gridview=view1

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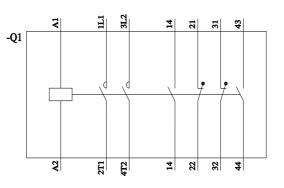


141

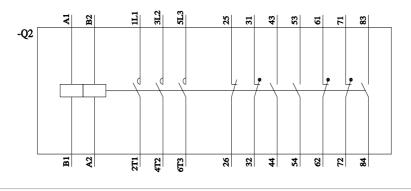








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6/19/2024 🖸

3TF69331DF4 Page 6/7

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