## SIEMENS

## Data sheet

## 3RW4427-1BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 82 A, 60 hp Inside-delta: 142 A, 100 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5527-1HA14<<

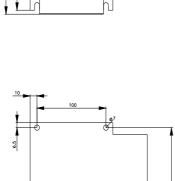
General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		Yes
<ul> <li>external reset</li> </ul>		Yes
<ul> <li>adjustable current limitation</li> </ul>		Yes
<ul> <li>inside-delta circuit</li> </ul>		Yes
product component motor brake output		Yes
insulation voltage rated value	V	690
degree of pollution		3, acc. to IEC 60947-4-2
reference code according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	A	93
<ul> <li>at 50 °C rated value</li> </ul>	A	82
<ul> <li>at 60 °C rated value</li> </ul>	A	72
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	161
<ul> <li>at 50 °C rated value</li> </ul>	А	142
<ul> <li>at 60 °C rated value</li> </ul>	A	125
yielded mechanical performance for 3-phase motors		
• at 230 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	22
<ul> <li>— at inside-delta circuit at 40 °C rated value</li> </ul>	kW	45
• at 400 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	45
<ul> <li>— at inside-delta circuit at 40 °C rated value</li> </ul>	kW	90
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	25
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10

operating voltage at standard circuit rated value         V         200460           relative negative tolerance of the operating voltage at standard circuit         %         10           relative positive tolerance of the operating voltage at standard circuit rated value         V         200460           operating voltage at inside-delta circuit rated value         V         200460           relative positive tolerance of the operating voltage at standard circuit         %         10           relative positive tolerance of the operating voltage at standard circuit         %         10           relative positive tolerance of the operating voltage at standard circuit standard circuit standard circuit         %         10           minimum load (%)         %         8         10           operating voltage of the control supply voltage fragment (% of b   at 40 °C         %         15           operating voltage of the control supply voltage fragment (% of b   at 40 °C         %         15           operating voltage of the control supply voltage fragment (% of b   at 40 °C         %         10           relative negative tolerance of the control supply         %         10           control supply voltage fragment (% of b   at 40 °C         %         10           relative positive tolerance of the control supply         %         10           voltage fragment (% of			
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standard circuit         V         200 400           protecting voltage at Indie-dotta circuit rated value         %         15           relative positive tolerance of the operating voltage at inside-dotta circuit         %         10           inside-dotta circuit         %         115           continuous oparating current f% of lag t40 °C         %         115           power loss [W] at operational current at 40 °C during operation typical         AC           Control supply voltage frequency 2 rated value         Hz         50           control supply voltage frequency 2 rated value         Hz         50           control supply voltage frequency 2 rated value         V         115           voltage frequency         10         voltage frequency           control supply voltage frequency 2 rated value         V         115           eatitive positive tolerance of the control supply         %         10           voltage frequency         10         10           control supply voltage 1 fa AC         V         115		%	-15
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power loss [W] at operational current at 40 °C during operation typical         W         55           Control lencel// Control         K         K           Control supply voltage of the control supply         K         K           Control supply voltage frequency 1 rated value         Hz         50           Control supply voltage frequency 2 rated value         Hz         50           Faltive negative tolerance of the control supply         %         10           voltage frequency         14 K         50           relative negative tolerance of the control supply         %         10           voltage frequency         14 K         50           relative negative tolerance of the control supply         %         10           voltage At AC at 50 Hz         115         115           relative positive tolerance of the control supply         %         10           voltage At AC at 60 Hz         Display         10           voltage At AC at 60 Hz         Display         10           depth         mm         170           relative negative tolerance of the control supply         %         10           voltage At AC at 60 Hz         mm         170           relative positive tolerance of the control supply         %         10		А	18
power loss [W] at operational current at 40 °C during operation typical         W         55           Control lencel// Control         K         K           Control supply voltage of the control supply         K         K           Control supply voltage frequency 1 rated value         Hz         50           Control supply voltage frequency 2 rated value         Hz         50           Faltive negative tolerance of the control supply         %         10           voltage frequency         14 K         50           relative negative tolerance of the control supply         %         10           voltage frequency         14 K         50           relative negative tolerance of the control supply         %         10           voltage At AC at 50 Hz         115         115           relative positive tolerance of the control supply         %         10           voltage At AC at 60 Hz         Display         10           voltage At AC at 60 Hz         Display         10           depth         mm         170           relative negative tolerance of the control supply         %         10           voltage At AC at 60 Hz         mm         170           relative positive tolerance of the control supply         %         10	continuous operating current [% of le] at 40 °C	%	115
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• at 50 hz rated value     V     115       • at 60 Hz rated value     V     115       • relative negative tolerance of the control supply     %     -15       • relative negative tolerance of the control supply     %     10       • relative negative tolerance of the control supply     %     10       • relative negative tolerance of the control supply     %     10       • relative negative tolerance of the control supply     %     10       • voltage at AC at 60 Hz     mm     170       • relative negative tolerance of the control supply     %     10       • voltage at AC at 60 Hz     mm     170       • relative negative tolerance of the control supply     %     10       • voltage at AC at 60 Hz     mm     170       • depth     mm     170       • depth     mm     170       • depth     mm     170       • advards     mm     170       • upwards     mm     170       • advards     mm     170       • upwards     mm     100       • advards     mm     100       • advards     mm     5       • downwards     mm     5       • ownwards     mm     500       • unwher of NC contacts for auxillary contacts	relative positive tolerance of the control supply	%	10
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voltage at ÅC at 60 Hz       interval         relative positive tolerance of the control supply       %       10         vitage at AC at 60 Hz       Display         display version for fault signal       Display         Wechanical data       mm       170         width       mm       192         depth       mm       270         fastening method       screw fixing         mounting position       with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back         required spacing with side-by-side mounting       •         • upwards       mm       100         • at the side       mm       500         • downwards       mm       500         number of poles for main current circuit       3         Connections/ Terminals       box terminal         type of electrical connection       ox terminal         • for axillary and control circuit       screw-type terminals         number of NC contacts for auxillary contacts       3         number of NC contacts for auxillary contacts       1         type of connectable conductor cross-sections for main current circuit       55 mm²         • solid       2.5 35 mm²         • for auxillary contacts	voltage at AC at 50 Hz	%	-15
voltage at AC at 60 Hz       Display         Mechanical data       Display         width       mm       170         height       mm       192         depth       mm       270         fastening method       screw fixing         wouting position       with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back         required spacing with side-by-side mounting       mm       5         • upwards       mm       5         • downwards       mm       5         • downwards       mm       75         wire length maximum       m       500         number of poles for main current circuit       3         Connections/ Terminals       box terminal         type of electrical connection       is crew-type terminals         number of NC contacts for auxiliary contacts       0         number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for main contrent direct       2.5 16 mm²         • solid       2.5 35 mm²         • finely stranded with core end processing       4 70 mm²         • stranded       4 70 mm²	voltage at AC at 60 Hz	%	10
Mechanical data       mm       170         width       mm       192         depth       mm       192         depth       mm       270         fastening method       screw fixing         mounting position       with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back         required spacing with side-by-side mounting       mm       100         • at the side       mm       5         • downwards       mm       75         wire length maximum       m       500         number of poles for main current circuit       3         Connections/ Terminals       box terminal         type of electrical connection       box terminals         number of NC contacts for auxiliary contacts       0         number of NO contacts for auxiliary contacts       1         vipe of connectable conductor cross-sections for       2.5 16 mm²         e finely stranded with core end processing       4 70 mm²         e stranded       4 70 mm²	voltage at AC at 60 Hz		
width       mm       170         height       mm       192         depth       mm       270         fastening method       screw fixing         wounting position       with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back         required spacing with side-by-side mounting       mm       100         • upwards       mm       5         • downwards       mm       5         wire length maximum       m       500         number of poles for main current circuit       mm       5         Connections/ Terminals       box terminal         type of electrical connection       iscrew-type terminals         number of NC contacts for auxiliary contacts       0         number of NO contacts for auxiliary contacts       3         number of CO contacts for auxiliary contacts       1         vige of connectable conductor cross-sections for main contacts for box terminal using the front clamping point       2.5 16 mm²         • solid       2.5 35 mm²       4 50 mm²         • finely stranded with core end processing       4 70 mm²         • stranded       4 70 mm²	display version for fault signal		Display
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vertical mounting surface +/- 22.5° tiltable to the front and back       required spacing with side-by-side mounting       • upwards       • at the side       • at the side       • downwards       mm       5       • downwards       mm       75       wire length maximum       number of poles for main current circuit       3       Connections/ Terminals       type of electrical connection       • for main current circuit       • for auxiliary and control circuit       number of NC contacts for auxiliary contacts       number of CO contacts for auxiliary contacts       1       type of connectable conductor cross-sections for main current processing       • finely stranded with core end processing       • finely stranded with core end processing       • stranded       type of connectable conductor cross-sections for main contacts for box terminal using the back	•		screw fixing
required spacing with side-by-side mountingmm100• upwardsmm5• at the sidemm5• downwardsmm75wire length maximumm500number of poles for main current circuit3Connections/ Terminalstype of electrical connection• for main current circuitbox terminal• for auxiliary and control circuitscrew-type terminalsnumber of NC contacts for auxiliary contacts0number of NO contacts for auxiliary contacts3number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point2.5 16 mm²• solid2.5 35 mm²• stranded4 70 mm²type of connectable conductor cross-sections for main contacts for box terminal using the back4 70 mm²	mounting position		vertical mounting surface +/- 22.5° tiltable to the front and
• upwards       mm       100         • at the side       mm       5         • downwards       mm       75         wire length maximum       m       500         number of poles for main current circuit       3         Connections/ Terminals         type of electrical connection         • for main current circuit       box terminal         • for auxillary and control circuit       screw-type terminals         number of NC contacts for auxiliary contacts       0         number of NO contacts for auxiliary contacts       3         number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for main cortacts for box terminal using the front clamping point       2.5 16 mm²         • solid       2.5 35 mm²         • finely stranded with core end processing       4 50 mm²         • stranded       4 70 mm²         type of connectable conductor cross-sections for main contacts for box terminal using the back       50 mm²	required spacing with side-by-side mounting		
• at the sidemm5• downwardsmm75wire length maximumm500number of poles for main current circuit3Connections/ Terminalstype of electrical connection• for main current circuitbox terminal• for auxiliary and control circuitscrew-type terminalsnumber of NC contacts for auxiliary contacts0number of NO contacts for auxiliary contacts3number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point2.5 16 mm²• solid2.5 35 mm²• stranded4 70 mm²		mm	100
• downwardsmm75wire length maximumm500number of poles for main current circuit3Connections/ Terminalstype of electrical connection• for main current circuitbox terminal• for auxiliary and control circuitbox terminal• for auxiliary and control circuitscrew-type terminalsnumber of NC contacts for auxiliary contacts0number of CO contacts for auxiliary contacts3number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point2.5 16 mm²• solid2.5 35 mm²• finely stranded with core end processing • stranded4 50 mm²• stranded type of connectable conductor cross-sections for main contacts for box terminal using the back4 70 mm²			
wire length maximum number of poles for main current circuitm500SolutionConnections/ Terminalstype of electrical connection • for main current circuitbox terminal screw-type terminals• for auxiliary and control circuitbox terminal screw-type terminalsnumber of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts3number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point2.5 16 mm²• solid2.5 35 mm²• finely stranded with core end processing • stranded4 50 mm²type of connectable conductor cross-sections for main contacts for box terminal using the back4 70 mm²			
number of poles for main current circuit3Connections/ Terminalstype of electrical connection • for main current circuitbox terminal screw-type terminals• for auxiliary and control circuit • for auxiliary and control circuitbox terminal screw-type terminalsnumber of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point2.5 16 mm² 2.5 35 mm²• solid2.5 30 mm²• stranded type of connectable conductor cross-sections for main contacts for box terminal using the back4 70 mm²	wire length maximum		500
Connections/Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         number of NC contacts for auxiliary contacts         number of NO contacts for auxiliary contacts         number of Co contacts for auxiliary contacts         1         type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point         • solid         • finely stranded with core end processing         • finely stranded without core end processing         • stranded         type of connectable conductor cross-sections for main contacts for box terminal using the back			
type of electrical connection• for main current circuit• for auxiliary and control circuitnumber of NC contacts for auxiliary contactsnumber of NO contacts for auxiliary contactsnumber of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point• solid• finely stranded with core end processing • stranded• strandedtype of connectable conductor cross-sections for main contacts for box terminal using the back	· · ·		
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>0</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>type of connectable conductor cross-sections for</li> <li>main contacts for box terminal using the front</li> <li>clamping point</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for</li> <li>main contacts for box terminal using the back</li> </ul>			
<ul> <li>for auxiliary and control circuit</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of NO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the back</li> </ul>			hey terminal
number of NC contacts for auxiliary contacts0number of NO contacts for auxiliary contacts3number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point2.5 16 mm²• solid2.5 35 mm²• finely stranded with core end processing • stranded4 50 mm²• stranded4 70 mm²			
number of NO contacts for auxiliary contacts3number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point2.5 16 mm²• solid2.5 35 mm²• finely stranded with core end processing • finely stranded without core end processing • stranded4 50 mm²• stranded4 70 mm²			
number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point1• solid2.5 16 mm²• finely stranded with core end processing • finely stranded without core end processing • stranded2.5 35 mm²• stranded4 50 mm²• type of connectable conductor cross-sections for main contacts for box terminal using the back4 70 mm²	-		
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point       2.5 16 mm²         • solid       2.5 35 mm²         • finely stranded with core end processing       4 50 mm²         • stranded       4 70 mm²         type of connectable conductor cross-sections for main contacts for box terminal using the back       4 70 mm²	number of NC contacts for auxiliary contacts		0
main contacts for box terminal using the front clamping point       2.5 16 mm²         • solid       2.5 16 mm²         • finely stranded with core end processing       2.5 35 mm²         • finely stranded without core end processing       4 50 mm²         • stranded       4 70 mm²         type of connectable conductor cross-sections for main contacts for box terminal using the back       Image: Contact of the back	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts		0 3
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>stranded without core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the back</li> </ul>	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts		0 3
<ul> <li>finely stranded without core end processing</li> <li>stranded</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the back</li> </ul>	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front		0 3
• stranded 4 70 mm <sup>2</sup> type of connectable conductor cross-sections for main contacts for box terminal using the back	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		0 3 1
type of connectable conductor cross-sections for main contacts for box terminal using the back	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • solid		0 3 1 2.5 16 mm <sup>2</sup>
main contacts for box terminal using the back	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • solid • finely stranded with core end processing		0 3 1 2.5 16 mm <sup>2</sup> 2.5 35 mm <sup>2</sup>
	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • solid • finely stranded with core end processing • finely stranded without core end processing		0 3 1 2.5 16 mm <sup>2</sup> 2.5 35 mm <sup>2</sup> 4 50 mm <sup>2</sup>

• solid		2,5 16 mm <sup>2</sup>	
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 50 mm <sup>2</sup>	
<ul> <li>finely stranded without core end processing</li> </ul>		10 50 mm <sup>2</sup>	
• stranded		10 70 mm²	
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points			
solid		2x (2.5 16 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (2.5 35 mm <sup>2</sup> )	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (4 35 mm <sup>2</sup> )	
• stranded		2x (4 50 mm <sup>2</sup> )	
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal			
<ul> <li>using the back clamping point</li> </ul>		10 2/0	
<ul> <li>using the front clamping point</li> </ul>		10 2/0	
<ul> <li>using both clamping points</li> </ul>		2x (10 1/0)	
type of connectable conductor cross-sections for auxiliary contacts			
• solid		2x (0.5 2.5 mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²)	
type of connectable conductor cross-sections at AWG cables			
for auxiliary contacts		2x (20 14)	
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		2x (20 16)	
Ambient conditions			
installation altitude at height above sea level	m	5 000	
environmental category			
during transport according to IEC 60721		2K2, 2C1, 2S1, 2M2 (max. fall he	
<ul> <li>during storage according to IEC 60721</li> </ul>		1K6 (only occasional condensation	
<ul> <li>during operation according to IEC 60721</li> </ul>		1S2 (sand must not get inside the 3K6 (no formation of ice, no conc mist), 3S2 (sand must not get into	lensation), 3C3 (no salt
ambient temperature			
during operation	°C	60	
during storage	°C	-25 +80	
derating temperature	°C	40	
protection class IP on the front according to IEC 60529		IP20	
touch protection on the front according to IEC 60529		finger-safe, for vertical contact fro	om the front
Certificates/ approvals			
General Product Approval			EMC
			_
Confirmation CSA	)	۹۵ EHC	RCM
Declaration of Conformity Test Certifica	ates	Marine / Shippi	ng
	antifia -	Test Cartific	ANT D
	<u>ertific- Type</u> ates	<u>a/Test Report</u>	
EG-Konf.		ABS	BUREAU VERITAS
Marine / Shipping	othe	r	
6	0000		
Hovds	<u>C</u>	onfirmation	
DNV-GL	1		
106 000	Ì		
LRS PRS Environment			
LRS PRS Dwalcows			

JL/CSA ratings					
yielded mechanical performance [hp] for 3-phase AC motor					
• at 200/208 V					
<ul> <li>— at inside-delta circuit at 50 °C rated value</li> </ul>	hp	40			
• at 220/230 V					
— at standard circuit at 50 °C rated value	hp	25			
<ul> <li>— at inside-delta circuit at 50 °C rated value</li> </ul>	hp	50			
● at 460/480 V					
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	60			
<ul> <li>— at inside-delta circuit at 50 °C rated value</li> </ul>	hp	100			
contact rating of auxiliary contacts according to UL		B300 / R300			
urther information					
Simulation Tool for Soft Starters (STS)					
https://support.industry.siemens.com/cs/ww/en/view/101494917					
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=3RW4427-1BC34					
Cax online generator					
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4427-1BC34					
Service&Support (Manuals, Certificates, Characteristics, FAQs,)					
https://support.industry.siemens.com/cs/ww/en/ps/3RW4427-1BC34					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4427-1BC34⟨=en					
<u>mup.//www.automation.siemens.com/biluub/cax_ue.aspx:milb=51\W4427-TDC54&amp;idity=en</u>					
170					
120	t	269.7			

7.5



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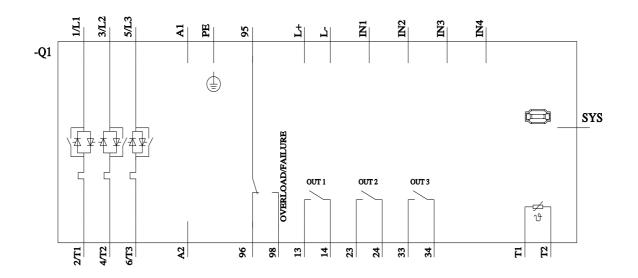
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191.4

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