## 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
external reset		Yes
<ul> <li>adjustable current limitation</li> </ul>		Yes
inside-delta circuit		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		
• at 40 °C rated value	А	93
• at 50 °C rated value	А	82
• at 60 °C rated value	А	72
operational current for 3-phase motors at inside-delta circuit		
• at 40 °C rated value	А	161
• at 50 °C rated value	А	142
• at 60 °C rated value	А	125
yielded mechanical performance for 3-phase motors		
• at 230 V		
— at standard circuit at 40 °C rated value	kW	22
— at inside-delta circuit at 40 °C rated value	kW	45
• at 400 V		
- at standard circuit at 40 °C rated value	kW	45
- at inside-delta circuit at 40 °C rated value	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         200480           Instruct pectative bolerance of the operating voltage at fashed circuit.         %         15           Instruct pectative bolerance of the operating voltage at fashed circuit.         %         10           Perating voltage at inside-delta circuit rated value         V         200400           Perating voltage at inside-delta circuit rated value         %         10           Perating voltage at inside-delta circuit rated value         %         10           Perating voltage at inside-delta circuit rated value         %         10           Inside-delta circuit         %         10           Inside-delta circuit         A         18           entitive pective operating voltage at tarted value         A         18           controus operating current [% of la 40 °C during operation voltage fragment]         %         10           operating voltage fragment]         Fragment         Fragment         50           control supply voltage fragment]         Fragment         50         10           control supply voltage fragment]         Fragment         50         10           control supply voltage fragment]         Fragment         50         10           control supply voltage fragment]         Fragment			
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standard circuit         V         200 400           relative angative tolerance of the operating voltage at inside-defa circuit.         5%         10           relative positive tolerance of the operating voltage at inside-defa circuit.         5%         10           relative positive tolerance of the operating voltage at inside-defa circuit.         5%         10           minimum tood [%]         4%         8           adjustable montor overload protection minimum rated value.         A         18           continuous operating current [%] of toj at 40 °C.         5%         115           power loss [W] at operational current at 40 °C during operation typical         AC         60           Control supply voltage frequency 7 rated value.         Hz         60         60           control supply voltage frequency 7 rated value.         Hz         60         60           reflative positive tolerance of the control supply voltage         5%         10         60           reflative positive tolerance of the control supply voltage         5%         10         65           control supply voltage frequency 7 rated value         V         115         65           control supply voltage frequency 7 rated value         V         115         65           control supply voltage frequency 7 rated value         V		%	-15
relation angelies to learners of the operating voltage at instaids data is creat.         5%         -15           relative positive tolerance of the operating voltage at instaids data is creat.         5%         10           minimum load [%]         5%         8           adjustable motor current or motor overload protection minimum rated value         6%         115           continuous operation stypical         6%         115           power loss [W] at operational current at 40 °C during operation stypical         AC           control supply voltage frequency 1 rated value         Hz         50           control supply voltage frequency 1 rated value         Hz         50           control supply voltage frequency 1 rated value         Hz         50           control supply voltage frequency 1 rated value         Hz         50           control supply voltage frequency 1 rated value         Hz         60           reflexion spatitive tolerance of the control supply voltage         %         10           reflexion spatitive tolerance of the control supply voltage at AC at 50 Hz         %         10           -reflexion spatitive tolerance of the control supply voltage at AC at 50 Hz         %         10           -reflexion spatitive tolerance of the control supply voltage at AC at 50 Hz         %         10           reflexion spatitive toleran		%	10
inside dets	operating voltage at inside-delta circuit rated value	V	200 460
inside_delta circuit minimum circuit for motor overlad protection minimum circuit da value continuous operating current (% of e) at 40 °C power loss (W a operational current at 40 °C during operation typical control supply voltage frequency 1 rate 40 °C control supply voltage frequency 1 rate value control supply voltage at AC control supply voltage at AC at 60 fre rate voltage frequency 1 frequency witch frequency witch frequency supplies tolerance of the control supply voltage at AC at 60 frequency witch frequency support of control supply voltage at AC at 60 frequency witch frequency support 1 frequency suppor		%	-15
adjustable molor current to renotor overlead protection minimum rated value         A         18           continuous operating current (% of le) at 40 °C         %         115           permitties (M) advectional current at 40 °C         %         115           permitties (M) advectional current at 40 °C         %         115           permitties (M) advectional current at 40 °C         %         115           permitties (M) advectional current at 40 °C         %         15           outroit of current of the control supply voltage         AC         60           control supply voltage frequency 1 rated value         Hz         60           relative negative tolerance of the control supply voltage 1         %         10           relative negative tolerance of the control supply voltage at at 0 Hz rated value         V         115           et al 0 Hz rated value         V         115         10           relative negative tolerance of the control supply voltage at a 6%         15         10           relative negative tolerance of the control supply voltage at a 6%         15         16           relative negative tolerance of the control supply voltage at a 6%         10         16           relative negative tolerance of the control supply voltage at a 6%         10         10           relative negative tolerance of the control		%	10
minimum rated value	minimum load [%]	%	8
power loss [W] = foreations current at 40 °C during operation typical         W         55           Control id/cut// Control         AC         Control id/cut// Control           Syne of voltage of the control supply voltage frequency         AC         Control id/cut// Control           Control id/cut// Control         Hz         60         Control supply voltage frequency 1 rated value           Frequency         Frequency         5%         10         Control supply voltage frequency           relative negative tolerance of the control supply voltage at AC at 50 Hz rated value         V         115         -           ent 50 Hz rated value         V         115         -         -           ent 50 Hz rated value         V         115         -         -           ent 50 Hz rated value         V         115         -         -           ent 50 Hz rated value         V         115         -         -           relative negative tolerance of the control supply voltage at AC at 50 Hz         %         10         -           relative negative tolerance of the control supply voltage at AC at 60 Hz         %         10         -           display variant of that signal         Display         Display         -         -           Methaneid can         mm         170	,	А	18
operation typical         Control Supply collage of the control supply voltage         AC           Syne of voltage of the control supply voltage         AC         60           control supply voltage frequency 1 rated value         Hz         50           control supply voltage frequency 2 rated value         Hz         60           relative positive tolerance of the control supply voltage         %         -10           relative positive tolerance of the control supply voltage at AC         v         115           control supply voltage 1 at AC         v         115           eat 50 Hz rated value         V         115           relative positive tolerance of the control supply voltage at AC at 60 Hz         %         10           relative positive tolerance of the control supply voltage at AC at 60 Hz         %         10           relative positive tolerance of the control supply voltage at AC at 60 Hz         %         10           relative positive tolerance of the control supply voltage at AC at 60 Hz         %         10           relative positive tolerance of the control supply voltage at AC at 60 Hz         %         10           relative positive tolerance of the control supply voltage at AC at 60 Hz         %         10           relative positive tolerance of the control supply voltage at AC at 60 Hz         %         10	continuous operating current [% of le] at 40 °C	%	115
type of voltage of the control supply voltage         AC           control supply voltage frequency 1 rated value         Hz         50           control supply voltage frequency 2 rated value         Hz         60           relative positive tolerance of the control supply voltage         %         10           control supply voltage 1 at AC         ************************************		W	55
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relative negative tolerance of the control supply voltage       %       -10         relative positive tolerance of the control supply voltage       %       10         control supply voltage 1 at AC       V       115         • at 50 hz rated value       V       115         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         display version for fault signal       Display       Mechanical data         width       mm       170       mm         height       mm       170       mounting surface +60° rotatable, with vertical mounting surfac	control supply voltage frequency 1 rated value	Hz	50
relative negative tolerance of the control supply voltage       %       -10         relative positive tolerance of the control supply voltage       %       10         control supply voltage 1 at AC       V       115         • at 50 hz rated value       V       115         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 hz       %       10         display version for fault signal       Display       Mechanical data         width       mm       170       mm         height       mm       170       mounting surface +60° rotatable, with vertical mounting surfac	control supply voltage frequency 2 rated value	Hz	60
relative positive tolerance of the control supply voltage frequency       %       10         control supply voltage 1 at AC       V       115         • at 60 Hz rated value       V       115         relative negative tolerance of the control supply voltage at AC at 50 Hz       %       -15         relative negative tolerance of the control supply voltage at AC at 50 Hz       %       -15         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       10         AC at 60 Hz       %       10         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       10         AC at 60 Hz       %       10         AC at 60 Hz       mm       170         mounting positive tolerance of the control supply voltage at AC at 80 Hz       %       10         Mechanical data       mm       170         width       mm       170         mounting position       mm       5         mounting position       mm       100         • upwards       mm       100         • downwards       mm       500         mumber of poles for main current circuit       3         Ownerdineworthe circuit       3         Ounectione/ torcuit       son	relative negative tolerance of the control supply voltage	%	-10
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• at 60 Hz rated value       V       115         relative negative tolerance of the control supply voltage at AC at 50 Hz       %       -15         relative positive tolerance of the control supply voltage at AC at 50 Hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 Hz       %       10         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10         AC at 50 Hz       mm       170         height       mm       170         fastening method       screw fixing       mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotata	control supply voltage 1 at AC		
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AC at 60 Hz       10         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       -15         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10         display version for fault signal       Display       Display         Mechanical data       mm       170         width       mm       170         height       mm       120         depth       screw fixing       screw fixing         mounting position       with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-92.5° tiltable to the front and back         required spacing with side-by-side mounting       mm       5         • upwards       mm       100       screw fixing         • ubwards       mm       500       screw-fixing         wire length maximum       m       500       screw-type terminals         type of electrical connection       box terminal       screw-type terminals         number of NC contacts for auxiliary contacts       1       1         number of NC contacts for auxiliary contacts </td <td>• at 60 Hz rated value</td> <td>V</td> <td>115</td>	• at 60 Hz rated value	V	115
AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz display version for fault signal Display Mechanical data Width mm 170 height mm 192 depth mm 270 fastening method mm 270 fastening nethod mm 100 eupwards eupwards eupwards eupwards eupwards frequired spacing with side-by-side mounting eupwards eupwards frequired spacing with side-by-side mounting frequired spacing with side-by-s		%	-15
AC at 60 Hz       10         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10         display version for fault signal       Display         Mechanical 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 +/-90" rotatable, with vertical mounting surface +/-22.5" tiltable to the front and back         required spacing with side-by-side mounting       mm         • upwards       mm         • upwards       mm         • downwards       mm         mumber of poles for main current circuit       3         Connections/Terminals       type of electrical connection         type of electrical connection       box terminal         • for auxiliary and control circuit       screw-type terminals         number of NC contacts for auxiliary contacts       0         number of NC contacts for auxiliary contacts       1         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       4 50 mm²         • finely stranded wit		%	10
AC at so Hz       Display         display version for fault signal       Display         Mechanical data       mm         width       mm         height       mm         depth       mm         fastening method       mm         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         • upwards       mm         • upwards       mm         • downwards       mm         wire length maximum       m         number of poles for main current circuit       3         Connections/Terminals       box terminal         type of electrical connection       box terminal         • for auxiliary and control circuit       screw-kype terminals         number of NC contacts for auxiliary contacts       1         type of connectable conductor cross-sections for main corrent circuit       2.5 16 mm²         • finely stranded with core end processing       4 70 mm²         • finely stranded without core end processing       4 70 mm²		%	-15
Mechanical data       mm       170         height       mm       192         depth       mm       270         fastening method       screw fixing         mounting position       with vertical mounting surface +/-90° rotatable, mounting		%	10
width         mm         170           height         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         with vertical mounting surface +/- 22.5° tiltable to the front and back           required spacing with side-by-side mounting         mm           • upwards         mm           • downwards         mm           • downwards         mm           • downwards         mm           for all neurons current circuit         3           Connections/ Terminals         screw-type terminals           type of electrical connection         box terminal           • for auxiliary and control circuit         box 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 contracts for bax terminal using the front clamping point         2.5 16 mm²           • solid         2.5 35 mm²         4 50 mm²           • stranded         4 70 mm²         4 70 mm² </th <th>display version for fault signal</th> <th></th> <th>Display</th>	display version for fault signal		Display
height       mm       192         depth       mm       270         fastening method       screw fixing         mounting position       with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/	Mechanical data		
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         • upwards       mm         • upwards       mm         • downwards       mm         mounting surface +/- 22.5° tiltable to the front and back         wire length maximum       5         odownwards       mm         wire length maximum       m         number of poles for main current circuit       3         Connections/ Terminals       screw-type terminal         type of electrical connection       iscrew-type terminals         • for main current circuit       box terminal         number of NC contacts for auxiliary contacts       0         number of NC contacts for auxiliary contacts       1         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       4 70 mm²         type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point       4 70 mm²	width	mm	170
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         • upwards       mm         • at the side       mm         • downwards       mm         • downwards       mm         wire length maximum       m         mounting of poles for main current circuit       3         Connections/Terminals       screw-type terminal         type of electrical connection       of auxiliary and control circuit         of number of NC contacts for auxiliary contacts       0         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       2.5 16 mm²         • solid       2.5 35 mm²         • finely stranded with core end processing       4 50 mm²         • stranded       4 70 mm²	height	mm	192
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       mounting surface +/- 22.5° tiltable to the front and back         e upwards       mm         • upwards       mm         • at the side       mm         • downwards       mm         • downwards       mm         wire length maximum       m         number of poles for main current circuit       3         Connections/Terminals       3         type of electrical connection       otherminal         • for main current circuit       box terminal         • for auxiliary and control circuit       box terminal         • number of NC contacts for auxiliary contacts       0         number of NC contacts for auxiliary contacts       1         type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point       1         • solid       2.5 16 mm²         • finely stranded with core end processing       4 50 mm²         • stranded       4 70 mm²	depth	mm	270
required spacing with side-by-side mountingmounting surface +/- 22.5° tiltable to the front and backrequired spacing with side-by-side mountingmm100• upwardsmm5• at the sidemm5• downwardsmm75wire length maximumm5000number of poles for main current circuit3Connections/ Terminals3type of electrical connectionbox terminal• for main current 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 without core end processing4 50 mm²• stranded4 70 mm²	fastening method		screw fixing
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• downwards     mm     75       wire length maximum     m     500       number of poles for main current circuit     3       Connections/ Terminals     3       type of electrical connection     • for main current circuit       • for main current circuit     box terminal       • for auxiliary 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 contacts for box terminal using the front clamping point     2.5 16 mm²       • solid     2.5 35 mm²       • finely stranded without core end processing     4 70 mm²       type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point     50 mm²	• upwards	mm	100
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number of poles for main current circuit       3         Connections/ Terminals       type of electrical connection         • for main current circuit       box terminal         • for auxiliary and control circuit       screw-type terminals         number of NC contacts for auxiliary contacts       0         number of Co contacts for auxiliary contacts       3         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       2.5 16 mm²         • finely stranded without core end processing       4 50 mm²         • stranded       4 70 mm²	downwards	mm	75
number of poles for main current circuit       3         Connections/ Terminals       type of electrical connection         • for main current circuit       box terminal         • for auxiliary and control circuit       screw-type terminals         number of NC contacts for auxiliary contacts       0         number of Contacts for auxiliary contacts       3         number of Contacts for auxiliary contacts       1         type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point       2.5 16 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 clamping point       50 mm²	wire length maximum	m	500
Connections/ Terminals         type of electrical connection         • for main current circuit         • for auxiliary and control circuit         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 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 clamping point			3
type of electrical connectionbox terminal• 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• finely stranded with core end processing4 50 mm²• stranded4 70 mm²type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point50 mm²			
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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 processing4 50 mm²• stranded4 70 mm²			
number of NO contacts for auxiliary contacts       3         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       1         • 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			
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       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 clamping point       Image: Contact for box terminal using the back clamping point			
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point2.5 16 mm²• solid2.5 16 mm²• finely stranded with core end processing2.5 35 mm²• finely stranded without core end processing4 50 mm²• stranded4 70 mm²type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point4			
• 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 clamping point       Stranded	type of connectable conductor cross-sections for main		
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>stranded</li> <li>stranded</li> <li>4 50 mm<sup>2</sup></li> <li>4 70 mm<sup>2</sup></li> </ul>			2.5 16 mm²
stranded 4 70 mm <sup>2</sup> type of connectable conductor cross-sections for main     contacts for box terminal using the back clamping point			
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point			
• solid 2,5 16 mm <sup>2</sup>	type of connectable conductor cross-sections for main		
	• solid		2,5 16 mm²

<ul> <li>finally stranded with core and processing</li> </ul>		2.5 50 mm²			
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>					
<ul> <li>finely stranded without core end processing</li> <li>stranded</li> </ul>		10 50 mm² 10 70 mm²			
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points					
solid		$2x (2.5 - 16 \text{ mm}^2)$			
<ul> <li>finely stranded with core end processing</li> </ul>		2x (2.5 16 mm²) 2x (2.5 35 mm²)			
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>					
stranded		2x (4 35 mm²) 2x (4 50 mm²)			
type of connectable conductor cross-sections for AWG		27 (4 30 mm )			
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 for AWG cables					
<ul> <li>for auxiliary contacts</li> </ul>		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 height 0.3 m)			
during storage according to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2			
		(sand must not get inside the devices), 1M4			
during operation according to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6			
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 from the front			
UL/CSA ratings					
yielded mechanical performance [hp] for 3-phase AC motor					
• at 200/208 V					
- at inside-delta circuit at 50 °C rated value	hp	40			
• at 220/230 V					
— at standard circuit at 50 °C rated value	hp	25			
— at inside-delta circuit at 50 °C rated value	hp	50			
• at 460/480 V					
— at standard circuit at 50 °C rated value	hp	60			
— at inside-delta circuit at 50 °C rated value	hp	100			
contact rating of auxiliary contacts according to UL		B300 / R300			
Approvals Certificates					
General Product Approval					
Confirmation CSA	<u>n</u>				
General Product Ap- proval EMV	T,	est Certificates Marine / Shipping			
	<u>S</u>	ate Type Test Certific- ate ates/Test Report			

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Marine / Shipping			other	Environment
BUREAU VERITAS	Lloyd's Register uis	PRS	<u>Confirmation</u>	Environmental Con- firmations

## Further information

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

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=3RW4427-1BC34

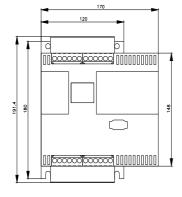
Cax online generator

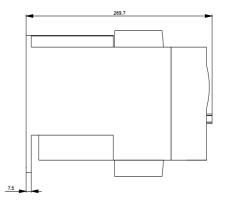
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4427-1BC34

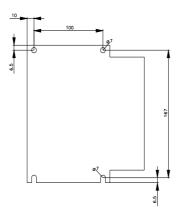
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

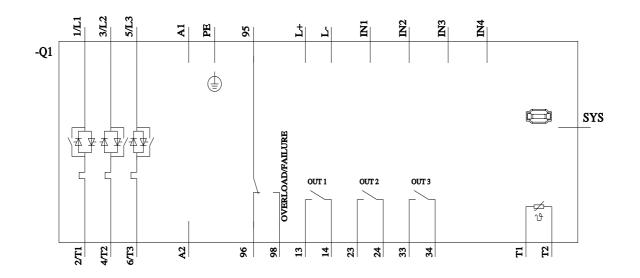
https://support.industry.siemens.com/cs/ww/en/ps/3RW4427-1BC34

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&lang=en









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