## SIEMENS

## Data sheet

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SIRIUS soft starter Values at 690 V, 40 °C standard: 134 A, 132 kW Inside-delta: only up to 600 V 400-690 V AC, 230 V AC spring-type terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5535-2HA16<<

product brand name		SIRIUS
product feature		
integrated bypass contact system		Yes
• thyristors		Yes
product function		
intrinsic device protection		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 acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G
ower Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	134
● at 50 °C rated value	А	117
● at 60 °C rated value	А	100
operational current for 3-phase motors at inside-delta circuit		
• at 40 °C rated value	А	232
● at 50 °C rated value	А	203
• at 60 °C rated value	А	173
yielded mechanical performance for 3-phase motors		
• at 400 V		
- at standard circuit at 40 °C rated value	W	75 000
- at inside-delta circuit at 40 °C rated value	W	132 000
• at 500 V		
— at standard circuit at 40 °C rated value	W	90 000
— at inside-delta circuit at 40 °C rated value	W	160 000
<ul> <li>at 690 V at standard circuit at 40 °C rated value</li> </ul>	W	132 000

## 3RW4435-2BC46

relative positive tolerance of the operating voltage at operating voltage at standard circuit rated value     V     400680       relative negative tolerance of the operating voltage at standard circuit     V     400680       operating voltage at inside-delta circuit rated value     V     400680       operating voltage at inside-delta circuit rated value     V     400680       operating voltage at inside-delta circuit rated value     V     400680       operating voltage at inside-delta circuit rated value     V     400680       relative positive tolerance of the operating voltage at inside-delta circuit     %     10       inside-delta circuit     %     8     8       adjustable motor orrent for motor orentod operation up rate value     A     26       power toss [V] at operational current at 40 °C during operation supply voltage frequency 2 rated value     Hz     50       control supply voltage frequency 2 rated value     Hz     60       relative positive tolerance of the control supply voltage frequency     %     10       control supply voltage frequency 2 rated value     Hz     60       relative positive tolerance of the control supply voltage frequency     %     10       control supply voltage frequency 2 rated value     V     230       relative positive tolerance of the control supply     %     10       voltage at AC at 60 Hz			
operating voltage at standard circuit retail value         V         400 660           initiative againet obtained of the operating voltage at standard circuit         %         -15           operating voltage at inside-delta circuit rated value         %         10           operating voltage at inside-delta circuit rated value         %         -15           inside delta circuit         %         10           inside delta circuit         %         115           protection inniumm rated value         A         26           continuous operating current for motor overload         %         115           protection inniumm rated value         Hz         60           control supply voltage frequency / rated value         Hz         60           control supply voltage frequency / rated value         Hz         60           control supply voltage frequency / rated value         Hz         60           control supply voltage frequency         10         10           voltage requency         V         230         10           voltage frequency         V         230	relative negative tolerance of the operating frequency	%	-10
relative negative bleance of the operating voltage at standard forcuit.       %       -15         relative positive tolerance of the operating voltage at standard forcuit.       %       10         operating voltage at inside-delta circuit rated value       V       400 600         relative positive tolerance of the operating voltage at inside-delta circuit.       %       -15         relative positive tolerance of the operating voltage at inside-delta circuit.       %       10         relative positive tolerance of the operating voltage at inside-delta circuit.       %       10         relative positive tolerance of the operating voltage at inside-delta circuit.       %       10         minimum load (%)       %       10       %         guistable motor current for motor overlead protection minimum rated value.       %       115         power loss [W] at operational current at 40 °C during operatin stypical       %       10         control supply voltage frequency 1 rated value.       Hz       50         control supply voltage frequency 2 rated value.       Hz       50         control supply voltage 1 at AC       230       10         voltage at Cale of hc control supply       %       10         voltage frequency       %       10       10         relative positive tolerance of the control supply       %			
standard circuit relative positive tolerance of the operating voltage at standard circuit operating voltage at inside-delta circuit rated value relative positive tolerance of the operating voltage at inside-delta circuit minimum load [54] montor current for motor overlaad protection minimum rated value continuous operating current at 40 °C during operating voltage of the control supply voltage of voltage of the control supply voltage frequency voltage frequency 1 rated value control supply voltage frequency 2 rated value relative negative tolerance of the control supply voltage frequency relative tolerance of the control supply voltage frequency 2 rated value to the control supply voltage frequency voltage frequency 2 rated value to the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage at 60 fbc rated value voltage frequency relative positive tolerance of the control supply voltage at 61 fb fbc rated value voltage at 61 fb fbc rated value frequence relative negative tolerance of the control supply voltage at 61 fb fbc relative negative tolerance of the control supply voltage at 61 fb fbc relative negative tolerance of the control supply voltage at 61 fb fbc relative negative tolerance of the control supply voltage at 61 fb fbc relative negative tolerance of the control supply voltage at 61 fbc fbc rated value ff fbr and fbc fbc rate voltage voltage at 61 fbc control supply voltage at 61 fbc control supply voltage at 61 fbc fbc rate voltage voltage at 61 fbc control supply voltage at 61 fbc control supply voltage at	operating voltage at standard circuit rated value	V	400 690
standard circuit     view       operating voltage at inside-difficia circuit rated value     view       relative nagative tolerance of the operating voltage at inside-difficient     %       relative positive tolerance of the operating voltage at inside-difficient     %       relative positive tolerance of the operating voltage at inside-difficient     %       relative positive tolerance of the operating voltage at inside-dote circuit     %       adjustable motor current for motor overlead protection minimum rated value     %       control supply voltage frequency 1% of log 14 0 °C control supply voltage frequency 2 rated value     %       Control supply voltage frequency 2 rated value     Hz       control supply voltage frequency 2 rated value     V       control supply voltage frequency 2 rated value <th></th> <th>%</th> <th>-15</th>		%	-15
Initial device a set of the operating voltage at inside-delta circuit       9       -15         Inide cells circuit       96       10         Inide cells circuit       96       8         adjustable motor current for motor overload protection minimum rated value       96       8         continuous operating current for motor overload protection minimum rated value       96       8         control supply voltage for quercy 1 rated value       115       96         Control supply voltage frequency 2 rated value       112       50         Control supply voltage frequency 2 rated value       112       50         control supply voltage frequency 2 rated value       112       50         relative negative tolerance of the control supply voltage frequency 2 rated value       112       50         control supply voltage frequency 2 rated value       112       50       60         relative negative tolerance of the control supply       %       10       10         control supply voltage 1 at AC       v       230       230       115         relative negative tolerance of the control supply       %       10       10       10         voltage at AC at 50 Hz       %       10       10       10       10       10       10       10       10       10		%	10
Inside-defision of the operating voltage at inside-defision of the operating voltage at adjustable motor current for motor overload protection minimum rated value       %       10         Iminimum load [½]       %       8         adjustable motor current for motor overload protection minimum rated value       %       10         continuous operating current at 40 °C       %       115         power loss [W] at operational current at 40 °C during operation typical       W       76         Control supply voltage frequency 1 rated value       Hz       50         control supply voltage frequency 2 rated value       Hz       60         control supply voltage frequency 1 rated value       Hz       60         control supply voltage frequency 2 rated value       Hz       60         control supply voltage frequency       %       10         voltage at AC at 50 Hz refet value       V       230         relative negative tolerance of the control supply       %       15         voltage at AC at 60 Hz       %       10         relative pasitive tolerance of the control supply       % <th>operating voltage at inside-delta circuit rated value</th> <th>V</th> <th>400 600</th>	operating voltage at inside-delta circuit rated value	V	400 600
Inside-defined [½] minimum def [½] adjustable motor current for motor overlead protection minimum rated value continuous operating current [% of le] at 40 °C power loss [Ŵ] at operational current at 40 °C during operation typical Control circuit Control type of voltage of the control supply voltage control supply voltage frequency 1 rated value relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage tolerance of the control supply voltage tolerance of the control supply voltage frequency relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply figs at AC at 60 Hz relative negative tolerance of the control supply figs at AC at 60 Hz relative negative tolerance of the control supply figs at AC at 60 Hz relative		%	-15
adjustable motor uurrent for motor overload protection minimum rated value       A       26         continuous operating current (% of le) at 40 °C       %       115         power loss [W] at operational current at 40 °C during operation typical       W       76         Control singly voltage frequency 1 rated value       Hz       50         control supply voltage frequency 2 rated value       Hz       60         relative negative tolerance of the control supply voltage frequency       %       10         voltage frequency and the control supply voltage frequency       %       10         control supply voltage 1 at AC       v       230         e at 60 Hz rated value       V       230         e at 60 Hz rated value       V       230         voltage traduce voltance of the control supply voltage at AC at 60 Hz       V       230         relative negative tolerance of the control supply       %       10       V         voltage at AC at 60 Hz       V       230       -15         voltage at AC at 60 Hz       V       230       -15         voltage at AC at 60 Hz       V       10       V         relative positive tolerance of the control supply       %       10       -15         voltage at AC at 60 Hz       ND       ND       -15 </th <th></th> <th>%</th> <th>10</th>		%	10
protection minimum rated value     visit       continuous operating current (% of lej at 40 °C     %       power loss [W] at operation current at 40 °C during operation typical     W       fype of voltage of the control supply voltage     AC       control supply voltage frequency 2 rated value     Hz       relative negative tolerance of the control supply     %       relative negative tolerance of the control supply     %       voltage frequency     115       relative negative tolerance of the control supply     %       relative negative tolerance of the control supply     %       voltage frequency     10       voltage frequency     10       voltage trequency     10       voltage at AC at 50 Hz     V       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 50 Hz     10       relative negative tolerance of the control supply     %       voltage at AC at 60 Hz     10       display version for fault signal     10	minimum load [%]	%	8
power loss [W] at operational current at 40 °C during operation typical         W         76           type of voltage of the control supply voltage control supply voltage frequency 1 rated value         AC         AC           control supply voltage frequency 1 rated value         Hz         50         AC           relative negative tolerance of the control supply voltage frequency         Ys         -10         -10           relative negative tolerance of the control supply voltage frequency         Ys         10         -10           control supply voltage 1 at AC         V         230         -15           control supply voltage 1 at AC         V         230         -15           relative negative tolerance of the control supply voltage at AC at 50 Hz         V         230         -15           relative negative tolerance of the control supply voltage at AC at 50 Hz         %         10         -15           relative negative tolerance of the control supply voltage at AC at 60 Hz         %         10         -15           relative negative tolerance of the control supply voltage at AC at 60 Hz         mm         170         -15           relative negative tolerance of the control supply voltage at AC at 60 Hz         mm         10         -15           width         mm         10         -15         -15           wide		А	26
operation typical         Control           Control circuit/ Control         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         50           control supply voltage frequency 2 rated value         Hz         50           relative pacitive tolerance of the control supply         %         10           voltage frequency         %         10           control supply voltage 1 at AC         •         •           • at 60 Hz rated value         V         230           • at 60 Hz rated value         V         230           relative positive tolerance of the control supply         %         10           voltage at AC at 50 Hz         feed value         V         230           relative positive tolerance of the control supply         %         10	continuous operating current [% of le] at 40 °C	%	115
Control circuit/ Control           type of voltage of the control supply voltage         AC           control supply voltage frequency 1 rated value         Hz         50           control supply voltage frequency 1 rated value         Hz         60           relative negative tolerance of the control supply voltage frequency         %         -10           relative negative tolerance of the control supply voltage frequency         %         10           control supply voltage 1 at AC         V         230           • et 60 Hz rated value         V         230           relative negative tolerance of the control supply voltage at AC at 60 Hz         V         230           relative negative tolerance of the control supply voltage at AC at 60 Hz         V         230           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         Mit         mm           relative positive tolerance of the control supply voltage at AC at 60 Hz         Mit         Mit           relative positive tolerance of the control supply         %         10         mit           display version for fault signal         mit         Mit	power loss [W] at operational current at 40 °C during	W	76
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         50           relative negative tolerance of the control supply         %         -10           voltage frequency         relative negative tolerance of the control supply         %         10           voltage af AC at 50 Hz rated value         V         230         -           e at 50 Hz rated value         V         230         -         -           relative negative tolerance of the control supply         %         10         -         -           relative negative tolerance of the control supply         %         10         - <t< th=""><th>operation typical</th><th></th><th></th></t<>	operation typical		
A control supply voltage frequency 1 rated value     Hz     50       control supply voltage frequency 2 rated value     Hz     60       relative negative tolerance of the control supply     %     -10       voltage frequency     %     -10       control supply voltage 1 at AC     %     10       e at 50 Hz rated value     V     230       relative negative tolerance of the control supply     %     -15       voltage at AC at 50 Hz     V     230       relative negative tolerance of the control supply     %     -15       voltage at AC at 50 Hz     V     230       relative negative tolerance of the control supply     %     -15       voltage at AC at 50 Hz     V     230       relative positive tolerance of the control supply     %     10       voltage at AC at 60 Hz     W     10       woltage at AC at 60 Hz <th>Control circuit/ Control</th> <th></th> <th></th>	Control circuit/ Control		
control supply voltage frequency 2 rated value     Hz     60       relative negative tolerance of the control supply voltage frequency     %     -10       control supply voltage 1 at AC     %     10       • at 50 Hz rated value     V     230       relative negative tolerance of the control supply voltage at AC at 50 Hz     V     230       relative negative tolerance of the control supply voltage at AC at 50 Hz     V     230       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       relative negative 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     %     10       relative positive tolerance of the control supply voltage at AC at 60 Hz     %     10       display version for fault signal     Mitchanical data     Mitchanical data       width     mm     170     %       height     mm     270     %       required spacing with side-by-side mounting     %     10       • downwards     mm     5     %       with vertical mounting surface +/- 22.5* tiltable to the front and back     %       required spacing with side-by-side mounting     %     10       •	type of voltage of the control supply voltage		AC
relative negative tolerance of the control supply voltage frequency       %       -10         relative positive tolerance of the control supply voltage frequency       %       10         control supply voltage 1 at AC       %       10         e at 50 Hz rated value       V       230         • at 60 Hz rated value       V       230         relative pasitive tolerance of the control supply voltage at AC at 50 Hz       %       10         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         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         display version for fault signal       Display       %       10         Mechanical data       mm       200       %       10         width       mm       mm       270       relative nounting 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       500<	control supply voltage frequency 1 rated value	Hz	50
voltage frequency         %         10           control supply voltage 1 at AC         %         10           • at 50 Hz rated value         V         230           relative negative tolerance of the control supply         %         -15           voltage at AC at 50 Hz         %         10           relative negative tolerance of the control supply         %         -15           voltage at AC at 50 Hz         %         10           relative positive tolerance of the control supply         %         10           voltage at AC at 60 Hz         %         10           relative positive tolerance of the control supply         %         10           voltage at AC at 60 Hz         %         10           relative positive tolerance of the control supply         %         10           voltage at AC at 60 Hz         %         10           display version for fault signal         Display           Mechanical data         mm         270           fastening method         mm         270           mounting position         writh side-by-side mounting         mm           • upwards         mm         100           • at the side         mm         500           • downwards         m	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 • at 50 Hz rated value       V       230         • at 50 Hz rated value       V       230         relative pasitive tolerance of the control supply voltage at AC at 50 Hz       %       10         relative pasitive 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         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10         display version for fault signal       Display         Mechanical data       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         e downwards       mm       75         wire length maximum       m       500         number of Poles for main current circuit       spring-loaded terminals         for main current circuit       spring-loaded terminals         number of NC contacts for auxiliary contacts       0         number of NC contac	relative negative tolerance of the control supply	%	-10
voltage frequency         No.         No.           control supply voltage 1 at AC         •         •           • at 50 Hz rated value         V         230           • at 60 Hz rated value         V         230           relative negative tolerance of the control supply voltage at AC at 50 Hz         V         230           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         %         15           relative negative 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         Display           display version for fault signal         Display           Mechanical data         mm         270           fastening method         mm         270           fastening method         mm         5           worked spacing with side-by-side mounting         with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-92.5° tittable to the front and back           required spacing with side-by-side mounting         mm         5           • downwards         mm         5           wire length maximum         m         500               num	voltage frequency		
• at 50 Hz rated value       V       230         • at 60 Hz rated value       V       230         relative negative tolerance of the control supply       %       -15         voltage at AC at 50 Hz       %       10         relative negative tolerance of the control supply       %       -15         voltage at AC at 50 Hz       %       10         relative negative tolerance of the control supply       %       10         voltage at AC at 60 Hz       %       10         relative positive tolerance of the control supply       %       10         voltage at AC at 60 Hz       %       10         display version for fault signal       Display         Mechanical data       mm       170         width       mm       270         fastening method       screw fixing       with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-92° rotatable, with vertical mounting surface +		%	10
• at 60 Hz rated value       V       230         relative negative tolerance of the control supply       %       -15         voltage at AC at 50 Hz       %       10         relative positive tolerance of the control supply       %       11         voltage at AC at 50 Hz       %       10         relative negative tolerance of the control supply       %       10         voltage at AC at 60 Hz       %       10         relative positive tolerance of the control supply       %       10         voltage at AC at 60 Hz       %       10         display version for fault signal       Display         Mechanical data       mm       200         width       mm       270         fastening method       screw fixing       with vertical mounting surface +/-90° rotatable, with vertical mounting surfa	control supply voltage 1 at AC		
relative negative tolerance of the control supply       %       -15         relative positive tolerance of the control supply       %       10         voltage at AC at 50 Hz       %       10         relative negative tolerance of the control supply       %       -15         voltage at AC at 60 Hz       %       -15         relative positive tolerance of the control supply       %       10         voltage at AC at 60 Hz       %       10         display version for fault signal       Display         Mechanical data	<ul> <li>at 50 Hz rated value</li> </ul>	V	230
voltage at ÅC at 50 Hz       10         relative positive 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       %       -15         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10         display version for fault signal       Display         Mechanical data       00         width       mm       170         height       mm       200         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         • upwards       mm       100         • at the side       mm       5         • downwards       mm       500         number of poles for main current circuit       busbar connection         • for main current circuit       busbar connection         • for main current circuit       busbar connection         • for main current circuit       spring-loaded terminals         number of NO contacts for auxillary contacts       0         number of NO contac	at 60 Hz rated value	V	230
voltage at AC at 50 Hz		%	-15
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         Mechanical data       mm         width       mm         height       mm         depth       mm         mounting position       screw fixing         with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 92° 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         wire length maximum       m         number of poles for main current circuit       3         Connections/ Terminals       type of electrical connection         • for auxiliary and control circuit       spring-loaded 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       1		%	10
voltage at AC at 60 Hz         display version for fault signal       Display         Mechanical data       mm         width       mm         height       mm         depth       fastening method         screw fixing       with vertical mounting surface +/-90° rotatable, 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         • downwards       mm         wire length maximum       m         mumber of poles for main current circuit       3         Connections/ Terminals       busbar connection         • for auxiliary and control circuit       spring-loaded terminals         number of NO 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       1	0 11 9	%	-15
Mechanical data         width       mm       170         height       mm       200         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		%	10
width       mm       170         height       mm       200         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         • upwards       mm         • downwards       mm         • for main current circuit       3         Connections/Terminals       busbar connection         • for auxiliary and control circuit       spring-loaded 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       1	display version for fault signal		Display
height       mm       200         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         • at the side       mm         • downwards       mm         wire length maximum       m         number of poles for main current circuit       3         Connections/Terminals       type of electrical connection         • for main current circuit       busbar connection         • for auxiliary and control circuit       spring-loaded 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       1	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       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         wire length maximum       m         number of poles for main current circuit       3         Connections/ Terminals       type of electrical connection         • for main current circuit       busbar connection         • for auxiliary and control circuit       spring-loaded 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       1	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         wire length maximum       m         number of poles for main current circuit       3         Connections/ Terminals       busbar connection         • for main current circuit       busbar connection         • for auxiliary and control circuit       spring-loaded terminals         number of NO contacts for auxiliary contacts       0         number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for       1	height	mm	200
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         • at the side       mm         • downwards       mm         0       specific main current circuit         0       spring-loaded terminals         type of electrical connection       o         • for main current circuit       busbar connection         • for auxiliary and control circuit       spring-loaded terminals         number of NO contacts for auxiliary contacts       0         number of NO contacts for auxiliary contacts       3         1       type of connectable conductor cross-sections for	depth	mm	270
required spacing with side-by-side mounting       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         number of poles for main current circuit       3         Connections/ Terminals       3         type of electrical connection       busbar connection         • for main current circuit       busbar connection         • for auxiliary and control circuit       spring-loaded 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       1	fastening method		screw fixing
• upwardsmm100• at the sidemm5• downwardsmm75wire length maximumm500number of poles for main current circuit3Connections/ Terminalstype of electrical connection• for main current circuitbusbar connection• for auxiliary and control circuitspring-loaded terminalsnumber of NC contacts for auxiliary contacts0number of NO contacts for auxiliary contacts3number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for1	mounting position		vertical mounting surface +/- 22.5° tiltable to the front and
• at the side       mm       5         • downwards       mm       75         wire length maximum       m       500         number of poles for main current circuit       3         Connections/ Terminals       3         type of electrical connection       busbar connection         • for main current circuit       busbar connection         • for auxiliary and control circuit       spring-loaded 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       1	required spacing with side-by-side mounting		
• downwards     mm     75       wire length maximum     m     500       number of poles for main current circuit     3       Connections/ Terminals     3       type of electrical connection     busbar connection       • for main current circuit     busbar connection       • for auxiliary and control circuit     spring-loaded 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     1	• upwards	mm	100
wire length maximum     m     500       number of poles for main current circuit     3       Connections/ Terminals       type of electrical connection       • for main current circuit       busbar connection       • 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	• at the side	mm	5
number of poles for main current circuit       3         Connections/ Terminals       4         type of electrical connection       6         • for main current circuit       busbar connection         • for auxiliary and control circuit       spring-loaded 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       1	downwards	mm	75
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	wire length maximum	m	500
type of electrical connection       busbar connection         • for main current circuit       busbar connection         • for auxiliary and control circuit       spring-loaded 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       1	number of poles for main current circuit		3
type of electrical connection       busbar connection         • for main current circuit       busbar connection         • for auxiliary and control circuit       spring-loaded 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       1	Connections/ Terminals		
• for main current circuit         busbar connection           • for auxiliary and control circuit         spring-loaded 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         1			
for auxiliary and control circuit spring-loaded terminals     number of NC contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     aumber of CO contacts for auxiliary contacts     1     type of connectable conductor cross-sections for			busbar connection
number of NC contacts for auxiliary contacts0number of NO contacts for auxiliary contacts3number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for1			
number of NO contacts for auxiliary contacts       3         number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for       1			
number of CO contacts for auxiliary contacts     1       type of connectable conductor cross-sections for     1			
type of connectable conductor cross-sections for			
main contacts for box terminal using the front clamping point	type of connectable conductor cross-sections for main contacts for box terminal using the front		

<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>		
<ul> <li>Tinely stranded without core end processing</li> </ul>		16 70 mm <sup>2</sup>
		16 70 mm <sup>2</sup>
• stranded	-	16 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		
<ul> <li>finely stranded with core end processing</li> </ul>		16 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		16 70 mm²
<ul> <li>stranded</li> </ul>		16 70 mm²
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points		
<ul> <li>finely stranded with core end processing</li> </ul>		max. 1x 50 mm <sup>2</sup> , 1x 70 mm <sup>2</sup>
<ul> <li>finely stranded without core end processing</li> </ul>		max. 1x 50 mm², 1x 70 mm²
stranded	_	max. 2x 70 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>		6 2/0
<ul> <li>using the front clamping point</li> </ul>		6 2/0
<ul> <li>using both clamping points</li> </ul>	_	max. 2x 1/0
type of connectable conductor cross-sections for DIN cable lug for main contacts		
<ul> <li>finely stranded</li> </ul>		16 95 mm²
stranded	-	25 120 mm²
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.25 1.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	_	2x (0.25 1.5 mm²)
type of connectable conductor cross-sections at AWG cables		
<ul> <li>for main contacts</li> </ul>		4 250 kcmil
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 16)
mbient conditions		
installation altitude at height above sea level	m	5 000
environmental category	•	
<ul> <li>during transport acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
		1K6 (only occasional condensation), 1C2 (no salt mist),
• during storage acc. to IEC 60721		1S2 (sand must not get inside the devices), 1M4
during operation acc. to IEC 60721		1S2 (sand must not get inside the devices), 1M4
during operation acc. to IEC 60721 ambient temperature		1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt
• during operation acc. to IEC 60721		1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt
during operation acc. to IEC 60721 ambient temperature	°C °C	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during operation acc. to IEC 60721  ambient temperature     • during operation     • during storage		1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60
during operation acc. to IEC 60721  ambient temperature     during operation	°C	<ul> <li>1S2 (sand must not get inside the devices), 1M4</li> <li>3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>60</li> <li>-25 +80</li> </ul>
during operation acc. to IEC 60721  ambient temperature     during operation     during storage  derating temperature	°C	<ul> <li>1S2 (sand must not get inside the devices), 1M4</li> <li>3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>60</li> <li>-25 +80</li> <li>40</li> <li>IP00; IP20 with box terminal/cover</li> <li>finger-safe, for vertical contact from the front with box</li> </ul>
during operation acc. to IEC 60721  ambient temperature     during operation     during storage  derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529	°C	<ul> <li>1S2 (sand must not get inside the devices), 1M4</li> <li>3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>60</li> <li>-25 +80</li> <li>40</li> <li>IP00; IP20 with box terminal/cover</li> </ul>
during operation acc. to IEC 60721  ambient temperature     during operation     during storage  derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Certificates/ approvals	°C	1S2 (sand must not get inside the devices), 1M4 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 60 -25 +80 40 IP00; IP20 with box terminal/cover finger-safe, for vertical contact from the front with box terminal/cover
during operation acc. to IEC 60721      ambient temperature     during operation     during storage      derating temperature      protection class IP on the front acc. to IEC 60529	°C	<ul> <li>1S2 (sand must not get inside the devices), 1M4</li> <li>3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</li> <li>60</li> <li>-25 +80</li> <li>40</li> <li>IP00; IP20 with box terminal/cover</li> <li>finger-safe, for vertical contact from the front with box terminal/cover</li> </ul>
during operation acc. to IEC 60721  ambient temperature     during operation     during storage  derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Certificates/ approvals	°C	1S2 (sand must not get inside the devices), 1M4         3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         60         -25 +80         40         IP00; IP20 with box terminal/cover         finger-safe, for vertical contact from the front with box terminal/cover         finger-safe, for vertical contact from the fort with box terminal/cover
• during operation acc. to IEC 60721  ambient temperature     • during operation     • during storage  derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Certificates/ approvals	°C	1S2 (sand must not get inside the devices), 1M4         3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         60         -25 +80         40         IP00; IP20 with box terminal/cover         finger-safe, for vertical contact from the front with box terminal/cover         EMC       Declaration of Conformity         EME       Declaration of Conformity
during operation acc. to IEC 60721  ambient temperature     during operation     during storage  derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 Certificates/ approvals	°C	1S2 (sand must not get inside the devices), 1M4         3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         60         -25 +80         40         IP00; IP20 with box terminal/cover         finger-safe, for vertical contact from the front with box terminal/cover         EMC
• during operation acc. to IEC 60721  ambient temperature     • during operation     • during storage  derating temperature protection class IP on the front acc. to IEC 60529 touch protection on the front acc. to IEC 60529 ertificates/ approvals	°C	1S2 (sand must not get inside the devices), 1M4         3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6         60         -25 +80         40         IP00; IP20 with box terminal/cover         finger-safe, for vertical contact from the front with box terminal/cover         EMC       Declaration of Conformity         EME       EMC

<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS	BUREAU	Hoyds Register uis	PRS
Marine / Shipping	other				
DNV-GL	<u>Confirmation</u>				

yielded mechanical performance [hp] for 3-phase AC motor <ul> <li>at 460/480 V</li> <li>at standard circuit at 50 °C rated value</li> <li>hp</li> <li>75</li> <li>at inside-delta circuit at 50 °C rated value</li> <li>hp</li> <li>150</li> </ul> • at 575/600 V <ul> <li>at standard circuit at 50 °C rated value</li> <li>hp</li> <li>150</li> </ul> • at standard circuit at 50 °C rated value <li>hp</li> <li>100</li> <li>- at standard circuit at 50 °C rated value</li> <li>hp</li> <li>200</li> contact rating of auxiliary contacts according to UL         B300 / R300           Further 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/c10           Industry Mall (Online ordering system)           https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46           Cax online generator             http://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46           Service&Support (Manuals, Certificates, Characteristics, FAQs,) <li>            http://www.automation.siemens.com/cs/ww/en/ps/3RW4435-2BC46</li>	UL/CSA ratings				
<ul> <li>at standard circuit at 50 °C rated value</li> <li>at standard circuit at 50 °C rated value</li> <li>bp</li> <li>at standard circuit at 50 °C rated value</li> <li>bp</li> <li>at 575/600 V</li> <li>at standard circuit at 50 °C rated value</li> <li>bp</li> <li>bp</li> <li>at standard circuit at 50 °C rated value</li> <li>bp</li> <li>bp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>B300 / R300</li> </ul> Further information Further 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=3RW4435-2BC46 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)					
— at inside-delta circuit at 50 °C rated value — at inside-delta circuit at 50 °C rated value — at standard circuit at 50 °C rated value — at standard circuit at 50 °C rated value 	• at 460/480 V				
	- at standard circuit at 50 °C rated value	hp	75		
— at standard circuit at 50 °C rated value — at inside-delta circuit at 50 °C rated value hp 100 — at inside-delta circuit at 50 °C rated value hp 200 contact rating of auxiliary contacts according to UL B300 / R300 Further 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=3RW4435-2BC46 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	- at inside-delta circuit at 50 °C rated value	hp	150		
— at inside-delta circuit at 50 °C rated value       hp       200         contact rating of auxiliary contacts according to UL       B300 / R300         Further 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=3RW4435-2BC46         Cax online generator       http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46         Service&Support (Manuals, Certificates, Characteristics, FAQs,)       https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46         Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	● at 575/600 V				
contact rating of auxiliary contacts according to UL       B300 / R300         Further 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=3RW4435-2BC46       Cax online generator         http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46       Service&Support (Manuals, Certificates, Characteristics, FAQs,)         https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46       Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	— at standard circuit at 50 °C rated value	hp	100		
Further 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=3RW4435-2BC46         Cax online generator         http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46         Service&Support (Manuals, Certificates, Characteristics, FAQs,)         https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46         Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	- at inside-delta circuit at 50 °C rated value	hp	200		
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=3RW4435-2BC46 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	contact rating of auxiliary contacts according to UL B300 / R300				
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=3RW4435-2BC46         Cax online generator         http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4435-2BC46         Service&Support (Manuals, Certificates, Characteristics, FAQs,)         https://support.industry.siemens.com/cs/ww/en/ps/3RW4435-2BC46         Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)	Further information				

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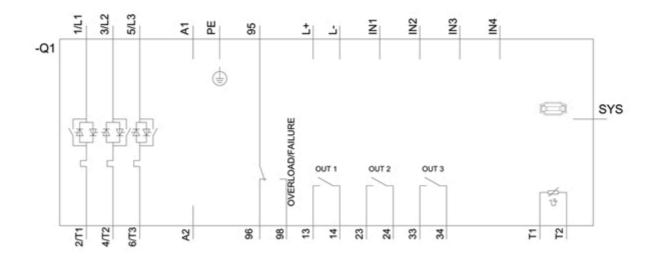
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