## SIEMENS

## Data sheet



SIRIUS soft starter Values at 400 V, 40 °C standard: 356 A, 200 kW Inside-delta: 617 A, 355 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5546-6HA14<<

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		Yes
<ul> <li>external reset</li> </ul>		Yes
<ul> <li>adjustable current limitation</li> </ul>		Yes
<ul> <li>inside-delta circuit</li> </ul>		Yes
product component motor brake output		Yes
insulation voltage rated value	V	690
degree of pollution		3, acc. to IEC 60947-4-2
reference code according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
• at 40 °C rated value	А	356
<ul> <li>at 50 °C rated value</li> </ul>	А	315
● at 60 °C rated value	А	280
operational current for 3-phase motors at inside-delta circuit		
<ul> <li>at 40 °C rated value</li> </ul>	А	617
<ul> <li>at 50 °C rated value</li> </ul>	А	546
<ul> <li>at 60 °C rated value</li> </ul>	А	485
yielded mechanical performance for 3-phase motors ● at 230 V		
— at standard circuit at 40 °C rated value	kW	110
— at inside-delta circuit at 40 °C rated value	kW	200
• at 400 V		
— at standard circuit at 40 °C rated value	kW	200
— at inside-delta circuit at 40 °C rated value	kW	355
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	100
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10

Subject to change without notice © Copyright Siemens

## 3RW4446-6BC44

operating voltage at standard circuit rest value         V         200400           relative positive tolerance of the operating voltage at standard circuit         %         -15           relative positive tolerance of the operating voltage at standard circuit         %         10           relative positive tolerance of the operating voltage at standard circuit relative positive tolerance of the operating voltage at relative positive tolerance of the control supply voltage frequency / rated value         %         10           relative positive tolerance of the control supply voltage frequency / rated value         %         115           control supply voltage frequency / rated value         Hz         60           control supply voltage frequency / rated value         Hz         60           relative positive tolerance of the control supply         %         10           voltage frequency / rated value         Y         230           relative positive tolerance of the control supply         %         10           voltage frequency         %         10           relative positive tolerance of the control supply			
standard circuit relative positive tolerance of the operating voltage at standard circuit operating voltage at inside-data circuit rated value operating voltage at inside-data circuit rated value voltage at cheat inside-data circuit relative negative tolerance of the operating voltage at inside-data circuit relative positive to term of voltage of the control voltage at protection minimum rated value operating voltage at positive control usply voltage fragmenty 2 rated value operating voltage at positive operating voltage fragmenty 2 rated value its 0 for a operating current 5% of leg 14 0° C power loss Vy voltage fragmenty 2 rated value control supply voltage fragmenty 2 rated value its 0 for rated voltage of the control supply voltage fragmenty 2 rated value its 0 for rated voltage of the control supply voltage fragmenty voltage fragmenty voltage fragmenty 2 rated value its 0 for rated voltage is 0 for control supply voltage fragmenty voltage fragmenty is 0 for rated value voltage if AC at 60 ftz relative negative tolerance of the control supply voltage if AC at 60 ftz relative negative tolerance of the control supply voltage if AC at 60 ftz relative negative tolerance of the control supply voltage if AC at 60 ftz relative negative tolerance of the control supply voltage if AC at 60 ftz relative negative tolerance of the control supply voltage if AC at 60 ftz relative negative tolerance of the control supply voltage if AC at 60 ftz relative negative tolerance of the control supply voltage if AC at 60 ftz relative negative tolerance of the control supply voltage if AC at 60 ftz relative negative tolerance of the control supply voltage if AC at 60 ftz relative negative tolerance of the control supply voltage if	operating voltage at standard circuit rated value	V	200 460
relative positive tolerance of the operating voltage at relative negative tolerance of the operating voltage at inside-dolta circuit relative negative tolerance of the operating voltage at relative negative tolerance of the operating voltage at inside-dolta circuit relative negative tolerance of the operating voltage at relative negative tolerance of the operating voltage at inside-dolta circuit relative negative tolerance of the operating voltage at relative negative tolerance of the operating voltage at relative negative tolerance of the operating voltage at relative negative tolerance of the operating voltage at control supply voltage frequency / rated value relative negative tolerance of the control supply voltage control supply voltage frequency / rated value relative negative tolerance of the control supply voltage control supply voltage frequency / rated value + 2 00 relative negative tolerance of the control supply voltage control supply voltage frequency / rated value + 2 00 relative negative tolerance of the control supply voltage relative negative tolerance of the control supply voltage relative negative tolerance of the control supply voltage relative negative tolerance of the control supply relative negative tolerance of the control supply relat		%	-15
relative negative tolerance of the operating voltage at inside-deficient (cruit) relative positive tolerance of the operating voltage at inside-deficient (cruit) minimum load [%] adjustable moder current for motor overload protection minimum relat value continuous operating current [% of log 14 0° C operating current [% of log 14 0° C operation type) voltage frequency 7 intel value relative negative tolerance of the control supply voltage frequency 2 intel value i at 00 Hz rated value voltage frequency relative opsitive tolerance of the control supply voltage at AC at 90 Hz relative negative tolerance of the control supply voltage at AC at 90 Hz relative opsitive tolerance of the control supply voltage at AC at 90 Hz relative negative tolerance of the control supply voltage at AC at 90 Hz relative negative tolerance of the control supply voltage at AC at 90 Hz relative negative tolerance of the control supply voltage at AC at 90 Hz relative negative tolerance of the control supply voltage at AC at 90 Hz relative negative tolerance of the control supply voltage at AC at 90 Hz relative negative tolerance of the control supply voltage at AC at 90 Hz relative negative tolerance of the control supply voltage at AC at 90 Hz relative negative tolerance of the control supply voltage of control supply voltage at AC at 90 Hz relative negative tolerance of the control supply voltage of control for sut tignal <b>finely</b> standed with at one end processing i finely standed with at one	relative positive tolerance of the operating voltage at	%	10
inside-obtic derive to the operating voltage at 0 °C units of the operating voltage at 0 °C units of the operating voltage at 0 °C units of the operating voltage of the control supply voltage frequency / rated value is 2 00 occurs of the operating voltage frequency / rated value is 2 00 occurs of the operating voltage frequency / rated value is 2 00 occurs of the control supply voltage frequency / rated value is 2 00 occurs of the control supply voltage frequency / rated value is 2 00 occurs of the control supply voltage frequency / rated value is 0 Hz rated value is	operating voltage at inside-delta circuit rated value	V	200 460
Inside-data circuit minimum and p(y) adjustable motor current for motor overload protection minimum rated value continuous operating current (¥ of le] at 40 °C minimum rated value control supply voltage of the control supply power loss (W) at operational current at 40 °C during operation typical Control supply voltage of the control supply voltage of the control supply voltage control supply voltage frequency 2 rated value Hz control supply voltage frequency 2 rated value Hz ext 50 Hz release of the control supply voltage frequency voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz required spacing with side-by-side mounting at the side at 60 Hz for auxiling contacts i downards mm 500 runner of Oc contacts for auxiliary contacts number of NC contactive for auxiliary contacts number o		%	-15
adjustable motor       A       71         protection minimum rated value       A       71         control current (% of lej at 40 °C during generation typical       W       115         Control circuit/ Control       W       174         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         relative negative tolerance of the control supply       %       10         voltage afficience       V       230       -         e at 60 hz rated value       V       230       -         e at 60 hz rated value       V       230       -         relative negative tolerance of the control supply       %       10         voltage af AC at 50 hz       Hz       -       -         relative negative tolerance of the control supply       %       10       -         voltage af AC at 60 hz       Hz       -       -       -         relative negative tolerance of the control supply       %       10       -       -         voltage af AC at 60 hz       Hz       -       -       -       -       -         volt		%	10
protection minimum rated value         view           continuous operating current (% of le) at 40 °C         %         115           power loss (M) at oparational current at 40 °C during operation tryptical         W         174           Control circuit/ Control         W         174           Control circuit/ Control         AC         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         %         10           voltage frequency         *         10           relative negative tolerance of the control supply         %         10           voltage frequency         230         -           relative negative tolerance of the control supply         %         -           voltage frequency         %         10         -           relative negative tolerance of the control supply         %         -         -           voltage frequency         -         -         -         -           relative negative tolerance of the control supply         %         -         -         -           voltage at AC at 60 Hz         Display         -         -         -	minimum load [%]	%	8
prover loss [W] at operational current at 40 °C during operation typical         W         174           Control circuit/ Control         Key control supply voltage frequency 1 rated value         Hz         50           control supply voltage frequency 1 rated value         Hz         60         60           control supply voltage frequency 1 rated value         Hz         60         60           control supply voltage frequency 2 rated value         Hz         60         60           relative negative tolerance of the control supply         %         10         70           voltage frequency         etal 50 Hz rated value         V         230         71           relative negative tolerance of the control supply         %         10         71         70           voltage frequency         voltage if AC at 50 Hz         71         71         71           relative negative tolerance of the control supply         %         10         71         71           voltage if AC at 50 Hz         relative negative tolerance of the control supply         %         10         71           voltage if AC at 60 Hz         mm         230         71         71           relative negative tolerance of the control supply         %         10         72           voltage if AC at 60 Hz<		А	71
operation typical         AC           Control circuit? Control         Stype of voltage of the control supply voltage frequency 1 rated value         Hz         50           control supply voltage frequency 1 rated value         Hz         50         50           relative negative tolerance of the control supply         %         -10         50           voltage frequency         rated value         Hz         50         50           relative negative tolerance of the control supply         %         10         50         50           voltage af AC at 50 Hz         v         230         -15         50	continuous operating current [% of le] at 40 °C	%	115
Control circuit/ Control         AC           Type of voltage of the 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         rated value         Hz         60           e at 50 Hz rated value         V         230         -at 60 Hz           e at 50 Hz rated value         V         230         -at 60 Hz           relative negative tolerance of the control supply         %         -15         -15           voltage at AC at 60 Hz         V         230         -15           relative negative tolerance of the control supply         %         -15         -15           voltage at AC at 60 Hz         %         10         -15           relative negative tolerance of the control supply         %         10         -15           voltage at AC at 60 Hz         mm         210         -16           mounting norifor         mm         230         -25         -15           voltage at AC at 60 Hz         mm         230         -26         -26         -27         -27         -27         -27         -27         -27	power loss [W] at operational current at 40 °C during	W	174
type of voltage of the control supply voltage control supply voltage frequency 7 rated value relative negative tolerance of the control supply voltage frequency 2 rated value relative positive tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC         AC           • at 50 Hz rated value • at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply v	operation typical		
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     -10       relative negative tolerance of the control supply     %     10       control supply voltage 1 at AC     •     450 Hz rated value     V       • at 60 Hz rated value     V     230       relative negative tolerance of the control supply     %     -15       voltage at AC at 60 Hz     relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     mm     210       relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     mm     230       display version for fault signal     Display       Mechanical data     mm     230       width     mm     230       mounting position     mm     230       equired spacing with side-by-side mounting     mm     230       • of words     mm     5       • downwards	Control circuit/ Control		
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     10       voltage frequency     230     10       control supply voltage 1 at AC     230     10       • et 60 Hz rated value     V     230       relative negative tolerance of the control supply     %     10       voltage frequency     7     -15       • et 60 Hz rated value     V     230       relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     10     10       relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     10     10       relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     10     10       voltage at AC at 60 Hz     10     10       fastening method     mm     230       mounting position     mm     230       if at an id and     mm     230       if at an id and     mm     230       if at an id and     mm     230       id aph     mm     210 <t< th=""><th>type of voltage of the control supply voltage</th><th></th><th>AC</th></t<>	type of voltage of the control supply voltage		AC
control supply voltage frequency 2 rated value     Hz     60       relative negative tolerance of the control supply     %     -10       voltage frequency     %     10       relative positive tolerance of the control supply     %     10       e it 60 Hz rated value     V     230       • e it 60 Hz rated value     V     230       relative negative tolerance of the control supply     %     10       voltage at AC at 50 Hz     V     230       relative negative tolerance of the control supply     %     10       voltage at AC at 50 Hz     V     230       relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     Tel control supply     %       relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     Tel control supply     %       relative positive tolerance of the control supply     %     10       voltage at AC at 60 Hz     Tel control supply     %     10       relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     Tel control supply     %     10       relative negative tolerance of the control supply     Tel control supply     10       wortage at AC at 60 Hz     Tel control supply     10 <t< th=""><th></th><th>Hz</th><th>50</th></t<>		Hz	50
relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC     10       • at 50 Hz rated value     V     230       • at 50 Hz rated value     V     230       relative negative tolerance of the control supply voltage at AC at 69 Hz     V     230       relative negative tolerance of the control supply voltage at AC at 69 Hz     V     230       relative positive tolerance of the control supply voltage at AC at 69 Hz     V     230       relative negative tolerance of the control supply voltage at AC at 69 Hz     V     10       voltage at AC at 60 Hz     Display     %     10       relative negative tolerance of the control supply voltage at AC at 60 Hz     Display     %     10       display version for fault signal     Display     %     10       Mochanical data     mm     230     State 4% PA       mounting position     mm     230     State 4% PA       required spacing with side-by-side mounting et the side     mm     5       • downwards     mm     500     State 5%       wire length maximum     m     500     State 5%       • the side     mm     500     State 5%       • of electrical connection     screw-type terminals     State 5%       fequind state on auxillary co			
relative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC       9       10         • at 60 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       7       10         relative negative tolerance of the control supply voltage at AC at 50 Hz       7       10         relative negative tolerance of the control supply voltage at AC at 60 Hz       7       10         relative negative tolerance of the control supply voltage at AC at 60 Hz       7       10         relative negative tolerance of the control supply voltage at AC at 60 Hz       7       10         relative negative tolerance of the control supply voltage at AC at 60 Hz       7       10         width       mm       210       10         height       mm       230       210         mounting position       mm       230       210         width       mm       230       210       210         height       mm       230       210       210         if astening method       mm       230       22.5° tiltable to the front and back         required spacing with side-by-side mounting       mm       5       5         • down	relative negative tolerance of the control supply		
control supply voltage 1 at AC     v     230       • at 50 Hz rated value     V     230       relative negative tolerance of the control supply     %     -15       voltage at AC at 50 Hz     10     -15       relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     10     -15       relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     10     -15       relative negative tolerance of the control supply     %     10       voltage at AC at 60 Hz     10     -15       width     mm     210       height     mm     230       fastening method     screw fixing       mounting position     with vertical mounting surface +/-00* rotatable, with vertical mounting surface +/-22.5* litable to the front and back       eupwards     mm     100       • otowards     mm     500       • otowards     mm     500       number of Poles for main current circuit     3       • of conactist for auxiliary contacts     0       number of NC contacts for auxiliary contacts     3       number of NC contacts for auxiliary contacts     3       number of NC contacts for auxiliary contacts     1       fype of connectable conductor cross-sections for main c	relative positive tolerance of the control supply	%	10
• at 50 Hz rated value     V     230       • at 60 Hz rated value     V     230       • at 60 Hz rated value     V     230       relative regative tolerance of the control supply     %     -15       voltage at AC at 50 Hz     10     -15       relative positive tolerance of the control supply     %     -15       voltage at AC at 60 Hz     9%     10       relative positive tolerance of the control supply     %     10       voltage at AC at 60 Hz     0     -15       relative positive tolerance of the control supply     %     10       voltage at AC at 60 Hz     0     -15       display version for fault signal     0     0       Mechanical data     0     0       width     mm     210       height     mm     230       mounting position     298     screw fixing       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     100       • upwards     mm     500       • downwards     mm     500       with long has an a current circuit     3       • for auxiliary and control circuit     busbar connection       •			
• at 60 Hz rated value     V     230       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     10       relative positive tolerance of the control supply     %     10       voltage at AC at 60 Hz     10       display vorsion for fault signal     Display       Mechanical data     10       width     mm     210       height     mm     230       depth     mm     230       depth     mm     230       equired spacing with side-by-side mounting     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     100       • downwards     mm     500       wire length maximum     m     500       number of poles for main current circuit     3       • for main current circuit     screw-type terminals       number of NC contacts for auxiliary contacts     1       number of NC contacts for auxiliary contacts     1 <th></th> <th>V</th> <th>230</th>		V	230
relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive 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 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 display version for fault signal <b>wechanical data</b> <b>wechanical data</b> <b>wechanical data</b> <b>wethanical mounting surface +/-90° rotatable, with</b> vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back <b>required spacing with side-by-side mounting</b> • upwards • downwards <b>mm</b> 75 <b>wire length maximum</b> <b>m</b> 500 number of poles for main current circuit • for auxiliary and control circuit • for auxiliary contacts number of NC contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front ciamping point • finely standed without core end processing • stranded • type of connectable conductor cross-sections for main contacts for box terminal using the back ciamping point		-	
voltage at ÅC at 50 Hz     %       rolative positive 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     %       relative positive tolerance of the control supply     %       voltage at AC at 60 Hz     %       relative positive tolerance of the control supply     %       voltage at AC at 60 Hz     %       relative positive tolerance of the control supply     %       voltage at AC at 60 Hz     %       required spacing with side-by-side mounting     %       • upwards     mm       • upwards     mm       • downwards     mm       • downwards     m       • downwards     m       • for main current circuit     3       Connections/ Torminals     %       type of electrical connection     0       • for main current circuit     3       • for auxiliary and control circuit     screw-type terminals       number of No contacts for auxiliary contacts     0       number of No contacts for auxiliary contacts     1       vipe of connectable conductor cross-sections for rani current circuit     3 <th></th> <th></th> <th></th>			
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 negative tolerance of the control supply voltage at AC at 60 Hz       0         display version for fault signal       Display         Mechanical data       mm       210         width       mm       230         depth       mm       230         mounting position       screw fixing       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       100         • upwards       mm       100         • upwards       mm       5         • downwards       mm       500         wire length maximum       m       500         number of Poles for main current circuit       3         Connections/ Terminals       busbar connection screw-type terminals         type of electrical connection       1         • finely stranded with core end processing       70 240 mm <sup>2</sup> • finely stranded without core end processing       70 240 mm <sup>2</sup> • finely stranded without core end processing       50 300 mm <sup>2</sup>		70	-15
voltage at AC at 60 Hz     no       relative positive tolerance of the control supply     %     10       voltage at AC at 60 Hz     Display       display version for fault signal     Display       Weth     mm     210       height     mm     230       depth     mm     230       fastening method     mm     298       mounting position     screw fixing     with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable to the front and back       required spacing with side-by-side mounting     •       • upwards     mm     100       • at the side     mm     5       • downwards     mm     500       • unwher of poles for main current circuit     m     500       formain current circuit     screw-type terminals       vippe of electrical connection     oral table conductor cross-sections for main current circuit       number of NC contacts for auxiliary contacts     3       number of NC contacts for auxiliary contacts     1       vippe of connectable conductor cross-sections for main contacts for auxiliary contacts     1       • finely stranded with core end processing     70 240 mm²       • finely stranded without core end processing     95 300 mm²	relative positive tolerance of the control supply	%	10
voltage at AC at 60 Hz     Display       display version for fault signal     Display       Mechanical data     mm       width     mm       height     mm       depth     gase       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       • downwards     mm       • downwards     mm       * downwards     mm       of poles for main current circuit     3       Connections/Terminals     busbar connection       • for main current 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     70 240 mm²       • finely stranded with core end processing     70 240 mm²       • finely stranded with core end processing     95 300 mm²		%	-15
Machanical data       mm       210         width       mm       230         height       mm       230         depth       mm       238         fastening method       mm       298         mounting position       screw fixing         with vertical mounting surface +/- 20° 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         • downwards       mm         • downwards       mm         wire length maximum       m         number of poles for main current circuit       3         Connections/ Terminals       busbar connection         type of electrical connection       screw-type terminals         number of NC contacts for auxiliary contacts       0         number of NC contacts for auxiliary contacts       1         veriate of Co contacts for auxiliary contacts       1         with y stranded with core end processing       70 240 mm²         • finely stranded without core end processing       95 300 mm²         • stranded       yee of connectable conductor cross-sections for main contacts for box terminal using the back clamping point       70 240 mm²<		%	10
width     mm     210       height     mm     230       fastening method     mm     298       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     5       • downwards     mm     5       • downwards     mm     500       wire length maximum     m     500       number of poles for main current circuit     3       Connections/ Terminals     busbar connection       • for main current circuit     busbar connection       • for auxiliary and control circuit     screw-type terminals       number of NC contacts for auxiliary contacts     0       number of CO contacts for auxiliary contacts     1       type of electrical consection     3       e finely stranded with core end processing     70 240 mm <sup>a</sup> • finely stranded without core end processing     95 300 mm <sup>a</sup> • stranded     95 300 mm <sup>a</sup>	display version for fault signal		Display
height depthmm230depthmm298fastening methodscrew fixingmounting positionwith vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and backrequired spacing with side-by-side mountingi• upwardsmm• upwardsmm• downwardsmm5downwards• downwardsmmmounting surface for main current circuitmumber of poles for main current circuit• for main current circuit• for main current circuit• for main current circuit• for auxiliary contactsnumber of NC contacts for auxiliary contactsnumber of CO contacts for auxiliary contactsnumber of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point• finely stranded with core end processing • stranded• strandedtype of connectable conductor cross-sections for main contacts for box terminal using the back• stranded• stranded<	Mechanical data		
depth fastening method mounting positionmm298 screw fixing with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and backrequired spacing with side-by-side mountingmm100• upwardsmm100• at the sidemm5• downwardsmm75wire length maximumm500number of poles for main current circuit3Connections/ Terminalstype of electrical connectionbusbar connection screw-type terminals• for auxiliary and control circuitbusbar connection• for auxiliary contacts0number of NC contacts for auxiliary contacts1number of NC contacts for auxiliary contacts1• finely stranded with core end processing70 240 mm²• finely stranded with core end processing70 240 mm²• stranded95 300 mm²	width	mm	210
depthmm298fastening methodscrew fixingmounting positionwith vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and backrequired spacing with side-by-side mountingmm• upwardsmm• upwardsmm• at the sidemm• downwardsmmodownwardsmmfact length maximummnumber of poles for main current circuit3connections/ Terminalsbusbar connection• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminalsnumber of NC contacts for auxiliary contacts1number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point70 240 mm²• finely stranded without core end processing • stranded70 240 mm²• fuely stranded without core sections for main contacts for box terminal using the back95 300 mm²	height	mm	230
fastening methodscrew fixingmounting positionwith vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and backrequired spacing with side-by-side mountingmm• upwardsmm• upwardsmm• at the sidem• downwardsmm• downwardsmm• downwardsmmumber of poles for main current circuit3Connections/ Terminalstype of electrical connection• for main current circuitbusbar connection• for auxiliary and control circuitbusbar connection• for ouxiliary and control circuitscrew-type terminalsnumber of NC contacts for auxiliary contacts0number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point70 240 mm²• finely stranded with core end processing • stranded70 240 mm²• stranded95 300 mm²	-	mm	298
mounting positionwith vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and backrequired spacing with side-by-side mountingmm100• upwardsmm100• at the sidemm5• downwardsmm75wire length maximumm500number of poles for main current circuit3Connections/ Terminals• for main current circuitbusbar connection• for auxiliary and control circuitbusbar connection• for auxiliary and control circuit0number of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point70 240 mm²• finely stranded with core end processing • stranded70 240 mm²• type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point95 300 mm²			screw fixing
required spacing with side-by-side mounting     vertical mounting surface +/- 22.5° tiltable to the front and back       • upwards     mm     100       • at the side     mm     5       • downwards     mm     75       wire length maximum     m     500       number of poles for main current circuit     3       Connections/Terminals     3       type of electrical connection     • for auxiliary contacts       • for auxiliary and control circuit     busbar connection       • for onacts for auxiliary contacts     0       number of NC contacts for auxiliary contacts     1       type of connectable conductor cross-sections for main cortex stor for box terminal using the front clamping point     70 240 mm <sup>2</sup> • finely stranded with core end processing     70 240 mm <sup>2</sup> • stranded     95 300 mm <sup>2</sup>	-		C C
• upwards       mm       100         • at the side       mm       5         • downwards       mm       75         wire length maximum       m       500         number of poles for main current circuit       3         Connections/ Terminals         type of electrical connection         • for main current circuit       busbar connection         • for main current 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       70 240 mm²         • finely stranded without core end processing       70 240 mm²         • stranded       95 300 mm²         type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point       300 mm²			vertical mounting surface +/- 22.5° tiltable to the front and
at the sidemm5• downwardsmm75wire length maximumm500number of poles for main current circuit3Connections/ Terminalstype of electrical connection• for main current circuitbusbar connection• for main current circuitbusbar connection• for auxiliary and control circuitscrew-type terminalsnumber of NC contacts for auxiliary contacts0number of NC contacts for auxiliary contacts3number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point70 240 mm²• finely stranded with core end processing70 240 mm²• stranded95 300 mm²type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point300 mm²	required spacing with side-by-side mounting		
downwardsmm75wire length maximumm500number of poles for main current circuit3Connections/ Terminalstype of electrical connection• for main current circuitbusbar connection• for main current circuitbusbar connection• 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 point70 240 mm²• finely stranded with core end processing70 240 mm²• stranded95 300 mm²	• upwards	mm	100
wire length maximum number of poles for main current circuitm500 3Connections/Terminalstype of electrical connection • for main current circuitbusbar connection screw-type terminals• for auxiliary and control circuit • for auxiliary and control circuitbusbar connection screw-type terminalsnumber of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point70 240 mm² stranded• finely stranded with core end processing • stranded70 240 mm² stranded95 300 mm²	at the side	mm	5
number of poles for main current circuit3Connections/Terminalstype of electrical connection• for main current circuitbusbar connection• 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 point70 240 mm²• finely stranded with core end processing • stranded95 300 mm²	<ul> <li>downwards</li> </ul>	mm	75
number of poles for main current circuit3Connections/Terminalstype of electrical connection• for main current circuitbusbar connection• 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 point70 240 mm²• finely stranded with core end processing • stranded70 240 mm²• type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point95 300 mm²	wire length maximum	m	500
Connections/ Terminals         type of electrical connection         • for main current circuit       busbar connection         • for auxiliary and control circuit       screw-type terminals         number of NC contacts for auxiliary contacts       0         number of NO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point       1         • finely stranded without core end processing       70 240 mm²         • stranded       95 300 mm²			3
type of electrical connection• for main current circuit• for auxiliary and control circuit• for auxiliary and control circuitnumber of NC contacts for auxiliary contactsnumber of NO contacts for auxiliary contactsnumber of CO contacts for auxiliary contactsnumber of CO contacts for auxiliary contactsnumber of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point• finely stranded with core end processing• stranded• strandedtype of connectable conductor cross-sections for main contacts for box terminal using the back clamping point	· · ·	_	
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>for auxiliary and control circuit</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of NO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point</li> </ul>			
<ul> <li>for auxiliary and control circuit</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of NO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point</li> </ul>			husbar 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 for main contacts for box terminal using the front clamping point70 240 mm²• finely stranded with core end processing • stranded70 240 mm²• stranded95 300 mm²			
number of NO contacts for auxiliary contacts3number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point1• finely stranded with core end processing • finely stranded without core end processing • stranded70 240 mm²• finely stranded without core end processing • stranded95 300 mm²			
number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point1• finely stranded with core end processing • finely stranded without core end processing • stranded70 240 mm²• finely stranded without core end processing • stranded70 240 mm²• stranded95 300 mm²	-		
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point70 240 mm²• finely stranded with core end processing • finely stranded without core end processing • stranded70 240 mm²• finely stranded without core end processing • stranded70 240 mm²• stranded95 300 mm²			
main contacts for box terminal using the front clamping point70 240 mm²• finely stranded with core end processing • finely stranded without core end processing • stranded70 240 mm²• stranded • stranded95 300 mm²type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point8			1
<ul> <li>finely stranded without core end processing</li> <li>stranded</li> <li>stranded</li> <li>or connectable conductor cross-sections for main contacts for box terminal using the back clamping point</li> <li>70 240 mm<sup>2</sup></li> <li>95 300 mm<sup>2</sup></li> </ul>	main contacts for box terminal using the front		
<ul> <li>finely stranded without core end processing</li> <li>stranded</li> <li>stranded</li> <li>or connectable conductor cross-sections for main contacts for box terminal using the back clamping point</li> <li>70 240 mm<sup>2</sup></li> <li>95 300 mm<sup>2</sup></li> </ul>	<ul> <li>finely stranded with core end processing</li> </ul>		70 240 mm <sup>2</sup>
stranded     95 300 mm <sup>2</sup> type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point			70 240 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point			
main contacts for box terminal using the back clamping point			
finely stranded with core end processing     120 185 mm <sup>2</sup>	type of connectable conductor cross-sections for		
	main contacts for box terminal using the back clamping point		

Subject to change without notice © Copyright Siemens

<ul> <li>finely stranded without core end proce</li> </ul>	ssing		120 185 mn	1 <sup>2</sup>	
<ul> <li>stranded</li> </ul>			120 240 mn	1 <sup>2</sup>	
type of connectable conductor cross-sec	tions for				
main contacts for box terminal using both	n clamping				
points					
<ul> <li>finely stranded with core end processing</li> </ul>	ng		min. 2x 50 mm	1², max. 2x 185 mm²	
<ul> <li>finely stranded without core end proce</li> </ul>	ssing		min. 2x 50 mm	1², max. 2x 185 mm²	
stranded	0			n², max. 2x 240 mm²	
type of connectable conductor cross-sec	tions at AWG			,	
cables for main contacts for box terminal					
using the back clamping point			250 500 kcr	nil	
			3/0 600 kcm		
using the front clamping point					
using both clamping points			min. 2x 2/0, m	ax. 2x 500 kcmil	
type of connectable conductor cross-sec	tions for DIN				
cable lug for main contacts					
<ul> <li>finely stranded</li> </ul>			50 240 mm <sup>2</sup>		
<ul> <li>stranded</li> </ul>			70 240 mm <sup>2</sup>	2	
type of connectable conductor cross-sec	tions for				
auxiliary contacts					
• solid			2x (0.5 2.5 i	mm²)	
<ul> <li>finely stranded with core end processing</li> </ul>	ng		2x (0.5 1.5	mm²)	
type of connectable conductor cross-sec	-				
cables					
<ul> <li>for main contacts</li> </ul>			2/0 500 kcm	nil	
<ul> <li>for auxiliary contacts</li> </ul>			2x (20 14)		
-	ith core and		2x (20 14) 2x (20 16)		
<ul> <li>for auxiliary contacts finely stranded w processing</li> </ul>			27 (20 10)		
Ambient conditions		_			
	wol	m	5 000		
installation altitude at height above sea le	ever		5 000		
environmental category					
<ul> <li>during transport according to IEC 6072</li> </ul>				, 2M2 (max. fall height	·
<ul> <li>during storage according to IEC 60721</li> </ul>	1			asional condensation),	
				st not get inside the de	
<ul> <li>during operation according to IEC 607</li> </ul>	21			tion of ice, no condens	
			mist), 352 (sa	nd must not get into the	e devices), sivio
ambient temperature					
<ul> <li>during operation</li> </ul>		°C	60		
<ul> <li>during storage</li> </ul>		°C	-25 +80		
derating temperature		°C	40		
protection class IP on the front according	to IEC		IP00; IP20 wit	h box terminal/cover	
60529					
touch protection on the front according to	o IEC 60529		•	vertical contact from t	he front with box
			terminal/cover		
Certificates/ approvals	_		_	_	
General Product Approval					EMC
	Confirmatio	<b></b>	-		•
	Command	<u>)  </u>	<u>س</u>	гпг	k A
			(V)	FHI	<u>(</u> )
CSA CCC			UL	FILF	RCM
Declaration of Conformity	Test Certifica	atos		Marine / Shipping	
Deciaration of contonnity	Test octiliet	103		Marine / Onipping	
		rtific- Spec	ial Test Certific-	and the second	A A A A A A A A A A A A A A A A A A A
	Type Test Ce			and the second second	131 3 2
CE UK	<u>Type Test Ce</u> ates/Test Re		<u>ate</u>		응 꽃(은 응)
CE AR					
				ABS	
CE UK EG-Konf. CA				ABS	BUREAU VERITAS
				ABS	BUREAU VERITAS
		port	<u>ate</u>	ABS	BUREAU VERITAS
Kege     UK       Barine / Shipping			<u>ate</u>	ABS	BUREAU VERITAS
		port	<u>ate</u>	ABS	BUREAU VERITAS







UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC		
motor		
• at 200/208 V		
<ul> <li>— at inside-delta circuit at 50 °C rated value</li> </ul>	hp	150
• at 220/230 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	125
<ul> <li>— at inside-delta circuit at 50 °C rated value</li> </ul>	hp	200
• at 460/480 V		
<ul> <li>— at standard circuit at 50 °C rated value</li> </ul>	hp	250
<ul> <li>— at inside-delta circuit at 50 °C rated value</li> </ul>	hp	450
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=3RW4446-6BC44

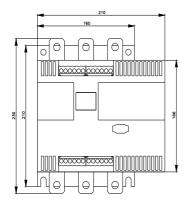
Cax online generator

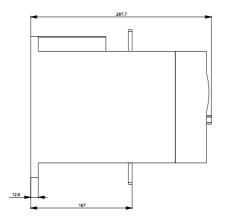
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4446-6BC44

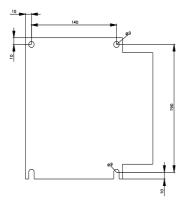
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

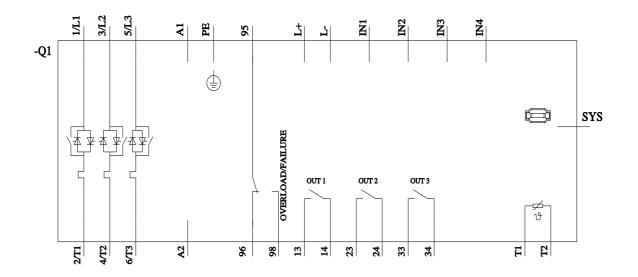
https://support.industry.siemens.com/cs/ww/en/ps/3RW4446-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4446-6BC44&lang=en









last modified:

1/16/2022 🖸