## SIEMENS

## Data sheet

## 3RW4455-6BC44



SIRIUS soft starter Values at 400 V, 40 °C standard: 693 A, 400 kW Inside-delta: 1200 A, 710 kW 200-460 V AC, 230 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5553-6HA14<<

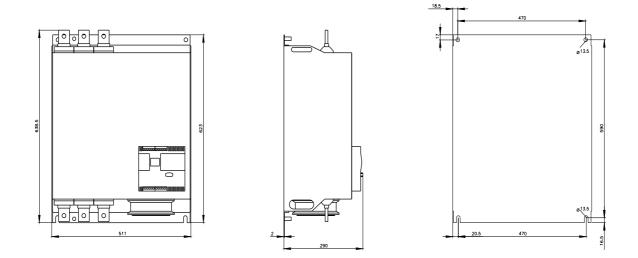
General technical data		
product brand name		SIRIUS
product designation		Soft starter
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		Yes
<ul> <li>motor overload protection</li> </ul>		Yes
<ul> <li>evaluation of thermistor motor protection</li> </ul>		Yes
external reset		Yes
<ul> <li>adjustable current limitation</li> </ul>		Yes
inside-delta circuit		Yes
product component motor brake output		Yes
insulation voltage rated value	V	690
degree of pollution		3, acc. to IEC 60947-4-2
reference code according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
operational current		
• at 40 °C rated value	A	693
• at 50 °C rated value	A	615
• at 60 °C rated value	А	551
operational current for 3-phase motors at inside-delta circuit		
• at 40 °C rated value	А	1 200
• at 50 °C rated value	А	1 065
• at 60 °C rated value	А	954
yielded mechanical performance for 3-phase motors		
• at 230 V		
<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	kW	200
- at inside-delta circuit at 40 °C rated value	kW	400
• at 400 V		
— at standard circuit at 40 °C rated value	kW	400
- at inside-delta circuit at 40 °C rated value	kW	710
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	200
operating frequency rated value	Hz	50 60
relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency	%	10

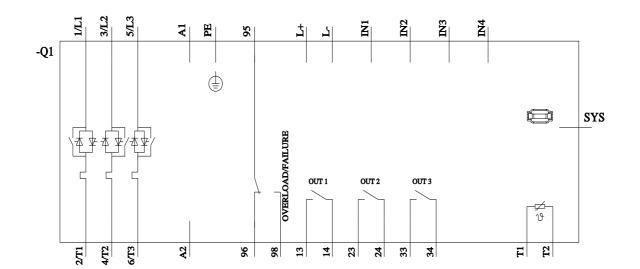
operating voltage at standard circuit rated value         V         200400           relative negative tolerance of the operating voltage at standard circuit         5%         15           relative negative tolerance of the operating voltage at standard circuit         5%         10           relative negative tolerance of the operating voltage at standard circuit         5%         10           relative negative tolerance of the operating voltage at standard circuit         5%         10           relative negative tolerance of the operating voltage at standard circuit         5%         10           relative negative tolerance of the operating voltage at standard circuit         5%         10           relative negative tolerance of the operating voltage at standard circuit         5%         10           relative negative tolerance of the operating voltage at standard circuit         5%         10           control supply to toleg frequency 1 rated value         142         200           control supply voltage frequency 2 rated value         142         80           relative negative tolerance of the control supply voltage         5%         10           relative negative tolerance of the control supply voltage at standard circuit         5%         10           relative negative tolerance of the control supply voltage at standard circuit         5%         10           relativ			
standard Črcuit         Image: standard črcuit         Fig.         10           relativo positivo tolerance of the operating voltage at inside-delta circuit rated value         V         200400           relativo positivo tolerance of the operating voltage at inside-delta circuit.         Fig.         10           relativo positivo tolerance of the operating voltage at inside-delta circuit.         Fig.         10           relativo positivo tolerance of the operating voltage at inside.         Fig.         10           relativo positivo tolerance of the operating voltage at inside.         Fig.         10           relativo positivo tolerance of the operating voltage at inside.         Fig.         11           relativo positivo tolerance of the operating voltage at inside.         Fig.         11           relativo positivo tolerance of the operating voltage at inside.         Fig.         115           poser tole (W) at operational current at 40 °C during operation voltage inside.         W         220           control supply voltage frequency 1 rated value         Hz         50         10           control supply voltage 1 rated value         Hz         50         10           relativo negativo tolerance of the control supply voltage in information voltage in information voltage in information voltage information voltage information voltage information voltage informating voltage in information voltage informating voltage information	operating voltage at standard circuit rated value	V	200 460
standard circuit version of the operating voltage at inside-delta circuit rated value version of the operating voltage at inside-delta circuit rated value version of the operating voltage at inside-delta circuit (% of lej at 40 °C version version of operating voltage at 40 °C version version of the operating voltage at 40 °C version version of the operating voltage at 40 °C version version of the operating voltage at 40 °C version version of the operating voltage at 40 °C version version of the operating vortage version version of the operating version (% of lej at 40 °C version vers		%	-15
Problem segaltive bolerance of the operating voltage at inside-data is circuit     9%     -16       Problem could     9%     10       minimum load [%]     9%     8       adjustable motor current [% of le] at 40 °C     9%     115       power loss [W] at operational current at 40 °C     9%     120       power loss [W] at operational current at 40 °C     9%     220       Continuous operating voltage frequency 1 rated value     Hz     50       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 voltage frequency     5%     10       relative negative tolerance of the control supply voltage frequency     5%     10       relative negative tolerance of the control supply voltage frequency     5%     10       relative negative tolerance of the control supply voltage at 400     7%     230       relative negative tolerance of the control supply voltage at 400     7%     10       relative negative tolerance of the control supply voltage at 400 frequency     5%     10       relative negative tolerance of the control supply voltage at 400 frequency     5%     10       relative negative tolerance of the control supply voltage at 400 frequency     5%     10       relative negative tolerance of the control supply v		%	10
inside det is dreuit in the overaling voltage at a set in the overaling vo	operating voltage at inside-delta circuit rated value	V	200 460
inside-ofta circuit minimum fact of (%) 8 adjustable moder Current for motor overload protection A byse of voltage of the control supply voltage A Control supply voltage frequency 7 rated value Hz byse of voltage of the control supply voltage frequency 2 rated value Hz byse of voltage of the control supply voltage frequency 2 rated value Hz byse of voltage of the control supply voltage frequency 2 rated value V byse of voltage 1 at AC by class of the control supply voltage at AC by class of the c		%	-15
adjustable mean current for motor overload protection       A       138         continuous operating current f% of lej at 40 °C       %       115         power loss [W] at operational current at 40 °C during operation hybral       W       220         Control circuit Control       W       220         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 voltage       %       10         relative negative tolerance of the control supply voltage       %       10         relative negative tolerance of the control supply voltage at at 60 Hz rated value       V       230         relative negative tolerance of the control supply voltage at AC at 60 Hz rated value       V       230         relative negative tolerance of the control supply voltage at AC at 60 Hz rated value       %       -15         relative negative tolerance of the control supply voltage at AC at 60 Hz rated value       %       10         relative negative tolerance of the control supply voltage at AC at 60 Hz rated value       %       10         relative negative tolerance of the control supply voltage at AC at 60 Hz rated value       %       10         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       10		%	10
minimum rated value	minimum load [%]	%	8
Down fors [W] at aperational current at 40 °C during operation typical         W         220           Control directuit Control supply voltage         AC         Control control supply voltage frequency 2 rated value         Hz         60           control supply voltage frequency 2 rated value         Hz         60         Frequency         Frequency           relative negative tolerance of the control supply voltage frequency         %         -10         Frequency           relative positive tolerance of the control supply voltage         %         -10         Frequency           control supply voltage 1 at AC         e         430 AC         230           e at 50 AE rated value         V         230         230           relative positive tolerance of the control supply voltage at AC at 60 Hz         75         AC at 60 Hz           relative positive tolerance of the control supply voltage at AC at 60 Hz         -15         AC at 60 Hz           relative positive tolerance of the control supply voltage at AC at 60 Hz         %         10         AC at 60 Hz           relative positive tolerance of the control supply voltage at AC at 60 Hz         %         10         AC at 60 Hz           relative positive tolerance of the control supply voltage at AC at 60 Hz         %         10         AC at 60 Hz           relatis hight         mm         510		А	138
operation typical         Control curcult/Control           Control curcult/Control         ype of voltage of the control supply voltage         AC           control supply voltage frequency 1 rated value         Hz         50           control supply voltage frequency 2 rated value         Hz         60           relative negative tolerance of the control supply voltage         %         -10           relative negative tolerance of the control supply voltage         %         -10           relative negative tolerance of the control supply voltage         %         -10           relative negative tolerance of the control supply voltage at AC         %         -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         %         10           relative negative tolerance of the control supply voltage at AC at 60 Hz         %         10           AC at 60 Hz         mm         510         50           display version for fault signal         Mitch         mm         510           height         mm         510         mounting surface +/-92.5" illiable to the front and back           requi	continuous operating current [% of le] at 40 °C	%	115
type of voltage of the control supply voltage         AC           control supply voltage frequency 1 rated value         Hz         50           control supply voltage frequency 2 rated value         HZ         60           relative negative tolerance of the control supply voltage         %         10           requency         relative positive tolerance of the control supply voltage         %         10           relative negative tolerance of the control supply voltage         %         10           control supply voltage 1 at AC         v         230           • at 50 Hz rated value         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           AC at 60 Hz         %         10         AC at 60 Hz           relative negative tolerance of the control supply voltage at AC at 60 Hz         %         10           AC at 60 Hz         mm         510         Mechanical data           width         mm         510         mounting surface +/-92* rotatable, with vertical mounting surface +/-92* rotatable, with vertical mounting surface +/-92* rotatable, with vertical mounting surface +/-92* filtable to the front and back           required spacing with side-by-side mounting <td< td=""><td></td><td>W</td><td>220</td></td<>		W	220
A row suppy voltage frequency 7 rated value       Hz       50.         control supply voltage frequency 2 rated value       Hz       60.         relative negative tolerance of the control supply voltage       %       10.         requency       relative negative tolerance of the control supply voltage       %       10.         control supply voltage 1 at AC       v       230.       v         • at 60 Hz rated value       V       230.       v       4.60.         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       -15.       AC at 50.         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       10.       AC at 50.         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       10.       AC at 60.         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       10.       AC at 60 Hz         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       10.       AC at 60 Hz         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       10.       AC at 60 Hz       Mechanical data       %       10.         display version for fault signal       mm       510       Mechanical data       %       10.       AC at 60 Hz	Control circuit/ Control		
control supply voltage frequency 2 rated value     Hz     60       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     v     230       e at 50 Hz rated value     V     230       relative negative tolerance of the control supply voltage at AC at 50 Hz     %     -15       relative negative tolerance of the control supply voltage at AC at 50 Hz     %     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 50 Hz     %     10       relative positive tolerance of the control supply voltage at AC at 50 Hz     %     10       relative positive tolerance of the control supply voltage at AC at 50 Hz     %     10       relative 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       display version for fault signal     Display       Mechanical data     mm     510       with     mm     510       height     mm     50       i at the side     mm     50       i at the side     mm     500	type of voltage of the control supply voltage		AC
relative negative tolerance of the control supply voltage       %       -10         requency       %       10         requency       %       10         control supply voltage 1 at AC       V       230         • at 50 Hz rated value       V       230         • 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 60 Hz       %       10         AC at 60 Hz       7%       10       AC at 60 Hz         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       10       AC at 60 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10       AC at 60 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10       AC at 60 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10       AC at 60 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10       Ac at 60 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10       Ac at 60 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz	control supply voltage frequency 1 rated value	Hz	50
relative negative tolerance of the control supply voltage       %       -10         requency       %       10         requency       %       10         control supply voltage 1 at AC       V       230         • at 50 Hz rated value       V       230         • 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 60 Hz       %       10         AC at 60 Hz       7%       10       AC at 60 Hz         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       10       AC at 60 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10       AC at 60 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10       AC at 60 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10       AC at 60 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10       Ac at 60 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10       Ac at 60 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz	control supply voltage frequency 2 rated value	Hz	60
frequency       V       230         • 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       %       -115         relative positive tolerance of the control supply voltage at AC at 50 Hz       %       10         relative positive tolerance of the control supply voltage at AC at 50 Hz       %       10         relative 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       Display         Mechanical data       mm       510         width       mm       510         height       mm       640         depth       mm       510         mounting position       mm       50         required spacing with side-by-side mounting       withive inclaimounting surface +/-90° rotatable, with vertical mounting surface +/-90° ro	relative negative tolerance of the control supply voltage	%	-10
• 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       %       -15         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         display version for fault signal       Display         Mechanical data       mm       640         width       mm       510         height       mm       640         depth       mm       290         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" tittable to the front and back.         required spacing with side-by-side mounting       mm       5         • upwards       mm       100       3         wire length maximum       m       500       3         unwer of poles for main current circuit       busbar connection       6         • for auxiliary and control circuit       3       0	relative positive tolerance of the control supply voltage	%	10
• at 60 Hz rated value     V     230       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     %     10       relative positive tolerance of the control supply voltage at AC at 60 Hz     %     10       relative negative tolerance of the control supply voltage at AC at 60 Hz     %     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 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 negative tolerance     %     10     10       Ac at 60 Hz     mm     510     10       height     mm     640     60     60       required spacing with side-by-side mounting     screw fixing     100       • at the side     mm     50     100	control supply voltage 1 at AC		
relative negative tolerance of the control supply voltage at AC at 50 Hz       %       -15         relative negative tolerance of the control supply voltage at AC at 50 Hz       %       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 negative tolerance of the control supply voltage at AC at 60 Hz       %       10         display version for fault signal       Display         Mechanical data       mm       640         width       mm       640         depth       mm       290         fastening method       screw fixing         mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° titable to the front and back         required spacing with side-by-side mounting       mm         • upwards       mm         • upwards       mm         • downwards       mm         • downwards       mm         • for auxiliary and control circuit       busbar connection         • for auxiliary and control circuit       busbar connection         • for auxiliary and control circuit       3	• at 50 Hz rated value	V	230
AC at 60 Hz       Max at 80 Hz         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       10         relative negative tolerance of the control supply voltage at AC at 60 Hz       %       10         display version for fault signal       Display         Mechanical data       mm       510         width       mm       640         depth       mm       640         fastening method       screw fixing         mounting position       with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tittable to the front and back         required spacing with side-by-side mounting       mm       50         • ipwards       mm       500         • idwinwards       mm       500         • idwinwards       mm       500         • idwinking and control circuit       3       3         Connections/Terminals       0       screw-type terminals         type of electrical connection       0       0         • for auxiliary and control circuit       screw-type terminals         number of NC contacts for auxiliary contacts       3       1         type of electrical connection	• at 60 Hz rated value	V	230
AC at s0 Hz       -15         relative negative tolerance of the control supply voltage at AC at 80 Hz       %       -15         relative positive tolerance of the control supply voltage at AC at 80 Hz       %       10         display version for fault signal       Display         Mechanical data       mm       510         width       mm       640         height       mm       640         depth       screw fixing       wounting surface +/-90° rotatable, with vertical mounting s		%	-15
AC at 60 H2       10         relative positive tolerance of the control supply voltage at AC at 60 Hz       %       10         display version for fault signal       Display         Mechanical data       0         width       mm       510         height       mm       640         depth       mm       640         depth       mm       290         fastening method       screw fixing         mounting position       with vertical mounting surface +/-90° rotatable, with v		%	10
AC at 60 Hz       Display         display version for fault signal       Display         Width       mm       510         height       mm       640         depth       mm       290         fastening method       screw fixing         mounting position       with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back         required spacing with side-by-side mounting       mm       100         • upwards       mm       5         • downwards       mm       500         mumber of poles for main current circuit       3         Connections/ Terminals       gaal         type of electrical connection       of rauxiliary and control circuit         • for auxiliary and control circuit       busbar connection         • finely stranded       50       3         number of NC contacts for auxiliary contacts       1         type of connectable conductor cross-sections for DIN cable       1         ustranded       50       240 mm <sup>2</sup>		%	-15
Mechanical data       mm       510         height       mm       640         depth       mm       290         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         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       0         number of NC contacts for auxiliary contacts       3         number of CO contacts for auxiliary contacts       3         number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for DIN cable       50 240 mm²         istranded       70 240 mm²		%	10
width         mm         510           height         mm         640           depth         mm         290           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         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 auxiliary and control circuit         screw-type terminals           number of NC contacts for auxiliary contacts         0           number of NC contacts for auxiliary contacts         1           type of connectable conductor cross-sections for DIN cable         50 240 mm²           upper of connectable conductor cross-sections for auxiliary         50 240 mm²	display version for fault signal		Display
height       mm       640         depth       mm       290         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       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         mober of poles for main current circuit       3         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 NC contacts for auxiliary contacts       1         type of connectable conductor cross-sections for DIN cable       5         ug for main contracts       50         • finely stranded       50         • finely stranded       70         • stranded       70         • pre of connectable conductor cross-sections for auxiliary	Mechanical data		
depth       mm       290         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         • downwards       mm         • downwards       mm         • downwards       mm         odownwards       mm         for poles for main current circuit       3         Connections/ Terminals       screw-type terminals         type of electrical connection       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 connectable conductor cross-sections for DIN cable       5         uig for main contacts       50         • finely stranded       50         • stranded       70	width	mm	510
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         • downwards       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       screw-type terminals         number of NC contacts for auxiliary contacts       0         number of C contacts for auxiliary contacts       1         type of connectable conductor cross-sections for DIN cable       50 240 mm²         e stranded       50 240 mm²         type of connectable conductor cross-sections for auxiliary       50 240 mm²	height	mm	640
mounting position       with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back         required spacing with side-by-side mounting       mounting surface +/-22.5° tiltable to the front and back         e upwards       mm       100         • at the side       mm       5         • downwards       mm       75         wire length maximum       m       500         number of poles for main current circuit       3         Connections/ Terminals       screw-type terminals         type of electrical connection       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 connectable conductor cross-sections for DIN cable lug for main contacts       50 240 mm²         • finely stranded       50 240 mm²         • stranded       70 240 mm²	depth	mm	290
required spacing with side-by-side mountingmounting surface +/- 22.5° tiltable to the front and back• 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 circuitscrew-type terminalsnumber of NO contacts for auxiliary contacts0number of CO contacts for auxiliary contacts1type of connectable conductor cross-sections for DIN cable lug for main contacts50 240 mm²• finely stranded50 240 mm²• stranded70 240 mm²	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 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 DIN cable50 240 mm²• finely stranded50 240 mm²• stranded70 240 mm²	mounting position		
• 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       6         • for main current circuit       busbar connection         • for auxiliary and control 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       3         number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for DIN cable       50 240 mm²         • finely stranded       50 240 mm²         • stranded       70 240 mm²	required spacing with side-by-side mounting		
• downwardsmm75wire length maximumm500number of poles for main current circuit3Connections/ Terminals3type of electrical connectionbusbar 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 DIN cable50 240 mm²• finely stranded50 240 mm²• stranded70 240 mm²	• upwards	mm	100
wire length maximumm500number of poles for main current circuit3Connections/ Terminalstype of electrical connectionbusbar 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 DIN cable50 240 mm²• stranded70 240 mm²	• at the side	mm	5
number of poles for main current circuit       3         Connections/Terminals       5         type of electrical connection       6         • for main current circuit       busbar connection         • for auxiliary and control circuit       5         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 DIN cable       50 240 mm²         • stranded       70 240 mm²	downwards	mm	75
Connections/ Terminals         type of electrical connection       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 NO contacts for auxiliary contacts       3         number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for DIN cable       50 240 mm²         • finely stranded       50 240 mm²         • stranded       70 240 mm²	wire length maximum	m	500
type of electrical connection       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 NO contacts for auxiliary contacts       3         number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for DIN cable       50 240 mm²         • finely stranded       70 240 mm²         • stranded       70 240 mm²	number of poles for main current circuit		3
• 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       3         number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for DIN cable       50 240 mm²         • finely stranded       70 240 mm²         • stranded       70 240 mm²	Connections/ Terminals		
• 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       3         number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for DIN cable       50 240 mm²         • finely stranded       70 240 mm²         • stranded       70 240 mm²	type of electrical connection		
• for auxiliary and control circuit       screw-type terminals         number of NC contacts for auxiliary contacts       0         number of NO contacts for auxiliary contacts       3         number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for DIN cable lug for main contacts       50 240 mm²         • finely stranded       70 240 mm²         • stranded       70 240 mm²			busbar connection
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 DIN cable lug for main contacts       50 240 mm²         • finely stranded       70 240 mm²         • stranded       70 240 mm²			screw-type terminals
number of NO contacts for auxiliary contacts       3         number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for DIN cable       50 240 mm²         • finely stranded       50 240 mm²         • stranded       70 240 mm²	•		
number of CO contacts for auxiliary contacts       1         type of connectable conductor cross-sections for DIN cable       50 240 mm²         • finely stranded       50 240 mm²         • stranded       70 240 mm²			
type of connectable conductor cross-sections for DIN cable       Iug for main contacts         • finely stranded       50 240 mm²         • stranded       70 240 mm²         type of connectable conductor cross-sections for auxiliary       50 240 mm²			
	type of connectable conductor cross-sections for DIN cable		
• stranded 70 240 mm <sup>2</sup> type of connectable conductor cross-sections for auxiliary	-		50 240 mm²
type of connectable conductor cross-sections for auxiliary	-		
• solid 2x (0.5 2.5 mm <sup>2</sup> )			2x (0.5 2.5 mm²)
finely stranded with core end processing     2x (0.5 1.5 mm <sup>2</sup> )			
type of connectable conductor cross-sections for AWG	· · · ·		. ,

cables						
<ul> <li>for main contact</li> </ul>	cts			2/0 500 kcmil		
<ul> <li>for auxiliary col</li> </ul>	ntacts			2x (20 14)		
<ul> <li>for auxiliary con processing</li> </ul>	ntacts finely stranded with c	ore end		2x (20 16)		
Ambient conditions						
installation altitude	at height above sea level		m	5 000		
environmental categ	jory					
<ul> <li>during transport</li> </ul>	rt according to IEC 60721			2K2, 2C1, 2S1, 2	2M2 (max. fall height 0.3	m)
<ul> <li>during storage</li> </ul>	according to IEC 60721			1K6 (only occasi	ional condensation), 1C2	2 (no salt mist), 1S2
<ul> <li>during operatio</li> </ul>	on according to IEC 60721				get inside the devices), 1 on of ice, no condensatio	
					not get into the devices)	
ambient temperature	e					
<ul> <li>during operation</li> </ul>	n		°C	60		
<ul> <li>during storage</li> </ul>			°C	-25 +80		
derating temperatur	е		°C	40		
protection class IP of	on the front according to I	EC 60529		IP00		
JL/CSA ratings						
yielded mechanical	performance [hp] for 3-ph	ase AC motor				
• at 200/208 V						
— at inside-	delta circuit at 50 °C rated v	alue	hp	350		
• at 220/230 V						
— at standa	rd circuit at 50 °C rated valu	e	hp	250		
— at inside-	delta circuit at 50 °C rated v	alue	hp	450		
• at 460/480 V						
— at standa	rd circuit at 50 °C rated valu	le	hp	500		
— at inside-	delta circuit at 50 °C rated v	alue	hp	950		
	xiliary contacts according			B300 / R300		
Approvals Certificates						
General Product Ap						
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~ ~		Confirmatio	<u>on</u>	$\bigcirc$	$\sim$	
CE	UK			( <b>m</b> )	(U <sub>I</sub> )	LUI
					<u> </u>	LUL
EG-Konf.				CCC	UL	
EMV		Test Certificat		Marine / Shipping		
		Test Certificat	.62 1	warme / Smpping		
~	<u>KC</u>	Special Test Ce	ertific-	CONT AND	AU VIE	
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<u>v</u>				And a state of the		- Constant
KCM				ABS	BUREAU	LRS
					* C 11 1 A 0	
	-					
other	Environment					
Confirmation	Environmental Con-					
	firmations					

Further information	
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917	
Information on the packaging	
https://support.industry.siemens.com/cs/ww/en/view/109813875	
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10	
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4455-6BC44	
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4455-6BC44	
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW4455-6BC44	

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW4455-6BC44&lang=en





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