## **SIEMENS**

Data sheet 3RW3016-1BB14



SIRIUS soft starter S00 9 A, 4 kW/400 V, 40  $^{\circ}\text{C}$  200-480 V AC, 110-230 V AC/DC Screw terminals

General technical data		
product brand name		SIRIUS
product designation		Soft starter
product feature		
integrated bypass contact system		Yes
• thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		No
<ul> <li>motor overload protection</li> </ul>		No
<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
external reset		No
adjustable current limitation		No
• inside-delta circuit		No
product component motor brake output		No
insulation voltage rated value	V	600
degree of pollution		3, acc. to IEC 60947-4-2
blocking voltage of the thyristor maximum	V	1 200
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		
<ul> <li>at 40 °C rated value</li> </ul>	Α	9
• at 50 °C rated value	Α	8
at 60 °C rated value	Α	7
yielded mechanical performance for 3-phase motors		
● at 230 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	2.2
● at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	4
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	2
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	200 480
relative negative tolerance of the operating voltage at standard circuit	%	-15
relative positive tolerance of the operating voltage at standard circuit	%	10
minimum load [%]	%	10

continuous operating current (% of le) at 40 °C			
operation typical  Stype of voltage of the control supply voltage  Control supply voltage frequency 2 rated value  Lead of supply voltage of the control supply voltage frequency  Lead of supply voltage 1 at AC at 50 Hz  Lead of supply voltage 1 at	continuous operating current [% of le] at 40 °C	%	115
Uppe of voltage of the control supply voltage Control supply voltage frequency 7 rated value Control supply voltage frequency 2 rated value Control supply voltage frequency 3 rated value Control supply voltage frequency 4 rated frequency 2 rated value Control supply voltage frequency 3 rated value Control supply voltage frequency 4 rated frequency 2 rated value Control supply voltage frequency 3 rated value Control supply voltage frequency 4 rated frequency 2 rated value Control supply voltage frequency 3 rated value Control supply voltage frequency 4 rated frequency 2 rated value Control supply voltage frequency 3 rated value Control supply voltage frequency 4 rated		W	1
Stype of voltage of the control supply voltage   Control supply voltage frequency 1 rated value   12   50			
control supply voltage frequency 1 trated value control supply voltage frequency 2 rated value feative negative tolerance of the control supply voltage frequency control supply voltage 1 at AC at 50 Hz voltage frequency 2 rated value frequency control supply voltage 1 at AC at 50 Hz voltage frequency 2 voltage 1 at AC at 50 Hz voltage frequency 2 voltage 1 at AC at 50 Hz voltage positive tolerance of the control supply voltage at AC at 50 Hz voltage positive tolerance of the control supply voltage at AC at 50 Hz voltage positive tolerance of the control supply voltage at AC at 50 Hz voltage positive tolerance of the control supply voltage at AC at 50 Hz voltage positive tolerance of the control supply voltage at AC at 50 Hz voltage positive tolerance of the control supply voltage at BC control supply voltage 1 at DC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tolerance of the control supply voltage at BC voltage positive tole	Control circuit/ Control		
control supply voltage frequency 2 rated value retails negative tolerance of the control supply voltage frequency 5 20 10 10 10 10 10 10 10 10 10 10 10 10 10	type of voltage of the control supply voltage		AC/DC
relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC at 60 Hz V 110 230  control supply voltage 1 at AC at 60 Hz V 110 230  relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at BC control supply voltage 1 at DC relative positive tolerance of the control supply voltage at BC control supply voltage 1 at DC relative positive tolerance of the control supply voltage at BC control supply voltage 1 at DC relative positive tolerance of the control supply voltage at BC control supply voltage 1 at DC relative positive tolerance of the control supply voltage at BC control supply voltage 1 at DC relative positive tolerance of the control supply voltage at BC control supply voltage 1 at DC relative positive tolerance of the control supply voltage at BC control supply voltage 1 at DC relative positive tolerance of the control supply voltage at BC control supply voltage 1 at DC control suppl	control supply voltage frequency 1 rated value	Hz	50
requency relative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC at 60 Hz Control supply voltage 1 at AC at 60 Hz V 110230 control supply voltage 1 at AC at 60 Hz V 110230 control supply voltage 1 at AC at 60 Hz V 110230 control supply voltage 1 at AC at 60 Hz V 110230 control supply voltage 1 at AC at 60 Hz V 110230 control supply voltage 1 at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 80 Hz relative angative tolerance of the control supply voltage at AC at 80 Hz relative spatitive tolerance of the control supply voltage at AC at 80 Hz relative spatitive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at AC at 80 Hz relative positiv	control supply voltage frequency 2 rated value	Hz	60
trequency control supply voltage 1 at AC at 50 Hz Control supply voltage 1 at AC at 60 Hz V 110 _ 230  Treative negative tolerance of the control supply voltage at AC at 50 Hz Treative negative tolerance of the control supply voltage at AC at 50 Hz Treative negative tolerance of the control supply voltage at AC at 50 Hz Treative negative tolerance of the control supply voltage at AC at 50 Hz Treative negative tolerance of the control supply voltage at AC at 50 Hz Treative negative tolerance of the control supply voltage at AC at 50 Hz Treative negative tolerance of the control supply voltage at AC at 50 Hz Treative negative tolerance of the control supply voltage at CCC Treative negative toler		%	-10
control supply voltage 1 at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 80 Hz relative positive tolerance of the control supply voltage at Cat 50 Hz AC at 50 Hz relative positive tolerance of the control supply voltage at Cat 50 Hz relative positive tolerance of the control supply voltage at Cat 50 Hz control supply voltage 1 at DC relative positive tolerance of the control supply voltage at Cat 50 Hz control supply voltage 1 at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC Relative positive tolerance of the control supply voltage at DC DC Relative positive tolerance of the control supply voltage at DC DC Relative positive tolerance of the control supply voltage at DC DC Relative positive tolerance of the control supply voltage at DC		%	10
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 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.  control supply voltage 1 at DC  relative negative tolerance of the control supply voltage at  AC at 50 Hz.  control supply voltage 1 at DC  relative negative tolerance of the control supply voltage at  original positive tolerance of the control	control supply voltage 1 at AC at 50 Hz	V	110 230
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 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.  control supply voltage 1 at DC  relative positive tolerance of the control supply voltage at AC at 50 Hz.  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  rela	control supply voltage 1 at AC at 60 Hz	V	110 230
AC at 50 Hz relative positive tolerance of the control supply voltage at 50 Hz relative negative tolerance of the control supply voltage at 50 Hz relative negative tolerance of the control supply voltage at 50 Hz control supply voltage 1 at DC rolative negative tolerance of the control supply voltage at 50 Pz rolative positive tolerance of the control supply voltage at 50 Pz rolative positive tolerance of the control supply voltage at 50 Pz rolative positive tolerance of the control supply voltage at 50 Pz rolative positive tolerance of the control supply voltage at 50 Pz rolative positive tolerance of the control supply voltage at 50 Pz rolative positive tolerance of the control supply voltage at 50 Pz rolative positive tolerance of the control supply voltage at 50 Pz rolative positive tolerance of the control supply voltage at 50 Pz rolative positive tolerance of the control supply voltage at 50 Pz rolative positive tolerance of the control supply voltage at 50 Pz rolative positive tolerance of the control supply voltage at 50 Pz rolative positive tolerance of the control supply voltage at 50 Pz 20 Dz display version for fault signal red Mcchanical data  #### ### ##########################		%	-15
AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz relative positive tolerance of the control supply voltage at SC at 50 Hz relative positive tolerance of the control supply voltage at DC relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC display version for fault signal  Modehmical data  Size of engine control device width mm 45 height mm 150 fastening method mounting position  With vertical mounting surface +/- 10° relatable, with vertical mounting surface +/- 10°	AC at 50 Hz		
AC at 80 HZ relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage 1 at DC relative negative tolerance of the control supply voltage at BC relative positive tolerance of the control supply voltage at BC relative positive tolerance of the control supply voltage at BC display version for fault signal  Mechanical data size of engine control device width	AC at 50 Hz		
AC at 6 Hz  control supply voltage 1 at DC  relative negative tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  relative positive tolerance of the control supply voltage at DC  display version for fault signal  red  Mechanical data  size of engine control device  width	AC at 60 Hz		
relative negative tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC display version for fault signal red  Mechanical data  size of engine control device width mm 45 height mm 95 depth mm 150 fastening method screw and snap-on mounting mounting position with the screw and snap-on mounting mounting position with the screw and snap-on mounting mounting position with the screw and snap-on mounting mounting position with side-by-side mounting mm 60  • upwards mm 60 • at the side mm 15  • or ownwards mm 40  wire length maximum m 300 number of poles for main current circuit 3  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals number of NC contacts for auxiliary contacts 1 • solid 2x (1 2.5 mm²), 2x (2.5 6 mm²)  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal using the front clamping point 2x (1 2.5 mm²). 2x (2.5 6 mm²)  type of connectable conductor cross-sections for auxiliary contacts 2x (2.5 6 mm²)  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal 2x (2.5 6 mm²)  type of connectable conductor cross-sections for AWG cables of main contacts for box terminal 2x (2.5 6 mm²)  type of connectable conductor cross-sections for AWG cables of main contacts for box terminal 2x (2.5 6 mm²)  type of connectable conductor cross-sections for AWG cables of conduct	AC at 60 Hz		
relative positive tolerance of the control supply voltage at DC display version for fault signal red   Mechanical data   size of engine control device width mm 45	control supply voltage 1 at DC		110 230
display version for fault signal  Mechanical data  size of engine control device  width  height  mm  45  height  mm  95  depth  fastening method  mounting position  required spacing with side-by-side mounting  • upwards  • at the side  • downwards  • downwards  wire length maximum  m  40  wire length maximum  m  40  wire length maximum  m  50  connections? Ireminals  type of electrical connection  • for main current circuit  number of NC contacts for auxiliary contacts  10  10  10  10  10  10  10  10  10  1		%	-20
Soo		%	20
size of engine control device width mm 45 height mm 95 depth mm 150 fastening method screw and snap-on mounting mounting position Writh vertical mounting surface +/-10" rotatable, with vertical mounting surface +/-10" totable, with vertical mounting surface +/-10" totable mount	display version for fault signal		red
width height mm 95 depth mm 150  fastening method screw and snap-on mounting mounting position With vertical mounting surface +/- 10" rotatable, with vertical mounting surface +/- 10" tiltable to the front and back required spacing with side-by-side mounting  • upwards mm 60 • at the side mm 15 • downwards mm 40 wire length maximum m 300 number of poles for main current circuit 3  **Topical Connectables (Terminals**  **Topical Connectables (For auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for for auxiliary contacts number of CO contacts for for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for box terminal using the front clamping point  • solid 2x (1 2.5 mm²), 2x (2.5 6 mm²)  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • u using the front clamping point  * u using the front clamping point  * u using the front clamping point  * solid 2x (0.25 2.5 mm²)  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing  * type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts finely stranded with core end processing  • for auxiliary contacts finely stranded with core end processing  • for auxiliary contacts finely stranded with core end processing  • for auxiliary contacts finely stranded with core end processing  • for auxiliary contacts finely stranded with core end processing	Mechanical data		
width height mm 95 depth mm 150  fastening method screw and snap-on mounting mounting position With vertical mounting surface +/- 10" rotatable, with vertical mounting surface +/- 10" tiltable to the front and back required spacing with side-by-side mounting  • upwards mm 60 • at the side mm 15 • downwards mm 40 wire length maximum m 300 number of poles for main current circuit 3  **Topical Connectables (Terminals**  **Topical Connectables (For auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for for auxiliary contacts number of CO contacts for for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for box terminal using the front clamping point  • solid 2x (1 2.5 mm²), 2x (2.5 6 mm²)  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • u using the front clamping point  * u using the front clamping point  * u using the front clamping point  * solid 2x (0.25 2.5 mm²)  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing  * type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts finely stranded with core end processing  • for auxiliary contacts finely stranded with core end processing  • for auxiliary contacts finely stranded with core end processing  • for auxiliary contacts finely stranded with core end processing  • for auxiliary contacts finely stranded with core end processing	size of engine control device		S00
height depth		mm	45
depth mm 150  fastening method screw and snap-on mounting mounting position With vertical mounting surface +/-10" rotatable, with vertical mounting surface +/-10" rotatable, with vertical mounting surface +/-10" tiltable to the front and back  required spacing with side-by-side mounting  • upwards • at the side • at the side • downwards mm 40  wire length maximum m 300 number of poles for main current circuit  Connections/ Terminals  type of electrical connection • for main current circuit screw-type terminals  type of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 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 • solid • finely stranded with core end processing • using the front clamping point  vulture of connectable conductor cross-sections for AWG cables for main contacts for box terminal • using the front clamping point  vulture of connectable conductor cross-sections for AWG cables • for including and control cross-sections for AWG cables • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts finely stranded with core end processing • for auxiliary contacts finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts finely stranded with core end processing • for auxiliary contacts finely stranded with core end processing			
fastening method  mounting position  required spacing with side-by-side mounting  upwards  to upwards  to at the side  downwards  mm  forman incurrent circuit  for auxiliary and control circuit  screw-type terminals  type of electrical connection  for auxiliary contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  type of connectable conductor cross-sections for AWG cables for main cutcor end processing  type of connectable conductor cross-sections for auxiliary contacts  finely stranded with core end processing  for auxiliary contacts  sories  e for auxiliary contacts  e solid  finely stranded with core end processing  finely stranded with core end processing  for auxiliary contacts  e for auxiliary contacts  for auxiliary contacts finely stranded with core end processing  auxiliary contacts  for auxiliary contacts finely stranded with core end processing  auxiliary contacts  for auxiliary contacts  for auxiliary contacts  for auxiliary contacts finely stranded with core end processing  for auxiliary contacts  for auxiliary contacts finely stranded with core end processing  for auxiliary contacts  for auxiliary contacts finely stranded with core end processing			
mounting position  With vertical mounting surface +/-10" rotatable, with vertical mounting surface +/-10" tiltable to the front and back  required spacing with side-by-side mounting  • upwards  • at the side  • downwards  mm  40  wire length maximum  number of poles for main current circuit  • for main current circuit  • for auxiliary and control circuit  • for auxiliary contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing	·		
required spacing with side-by-side mounting  • upwards • at the side • downwards wire length maximum number of poles for main current circuit  • for main current circuit • for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 type of connectable conductor cross-sections for AWG cables for main current clarb point • solid • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • for doubliary and control circuit  • for auxiliary contacts  • finely stranded with core end processing • for auxiliary contacts			
required spacing with side-by-side mounting  • upwards • at the side • downwards mm 40  wire length maximum nm 300  number of poles for main current circuit  Connections/ Terminals  type of electrical connection • for main current circuit • for auxiliary and control circuit  screw-type terminals  number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 1 number of Connectable conductor cross-sections for main contacts for box terminal using the front clamping point • solid • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables • for auxiliary contacts • solid • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables • for auxiliary contacts	mounting position		
upwards     at the side     at the side     downwards     mm     40  wire length maximum     number of poles for main current circuit  Connections/ Terminals  type of electrical connection     for auxiliary and control circuit     screw-type terminals  number of NC contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     number of CO contacts for auxiliary contacts     number of the contacts for auxiliary contacts     in type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point     solid     inselve stranded with core end processing     type of connectable conductor cross-sections for AWG cables for main contacts for box terminal     using the front clamping point     type of connectable conductor cross-sections for auxiliary contacts     solid     injury stranded with core end processing     type of connectable conductor cross-sections for auxiliary contacts     solid     injury stranded with core end processing     type of connectable conductor cross-sections for auxiliary contacts     injury stranded with core end processing     type of connectable conductor cross-sections for AWG cables     infinely stranded with core end processing     type of connectable conductor cross-sections for AWG cables     infor auxiliary contacts     infor auxiliary contacts     infor auxiliary contacts finely stranded with core end processing	required spacing with side-by-side mounting		Ü
<ul> <li>at the side</li> <li>downwards</li> <li>mm</li> <li>40</li> <li>wire length maximum</li> <li>number of poles for main current circuit</li> <li>Connections/ Terminals</li> <li>type of electrical connection</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>screw-type terminals</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of NC contacts for auxiliary contacts</li> <li>1</li> <li>number of CO contacts for auxiliary contacts</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point</li> <li>solid</li> <li>(inely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables for main contacts for box terminal</li> <li>using the front clamping point</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid</li> <li>(inely stranded with core end processing</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²)</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables</li> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>		mm	60
• downwards     wire length maximum     number of poles for main current circuit  Connections/ Terminals  type of electrical connection     • for main current circuit     • for auxiliary and control circuit     number of NC contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     number of CO contacts for auxiliary contacts     1     number of CO contacts for auxiliary contacts     1     vipe of connectable conductor cross-sections for main contacts for box terminal using the front clamping point     • solid     • solid     • finely stranded with core end processing     type of connectable conductor cross-sections for AWG cables for main contacts for box terminal     • using the front clamping point     • solid     • solid     • solid     • solid     • solid     • finely stranded with core end processing     • solid     • finely stranded with core end processing     • solid     • finely stranded with core end processing     • solid     • for auxiliary contacts     • for auxiliary contacts     • for auxiliary contacts     • for auxiliary contacts     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing     • for auxiliary contacts finely stranded with core end processing	•		
wire length maximum     m     300       number of poles for main current circuit     3       Connections/ Terminals       type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>number of NC contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>number of CO contacts for auxiliary contacts</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point</li> <li>solid</li> <li>2x (1 2.5 mm²), 2x (2.5 6 mm²)</li> </ul> type of connectable conductor cross-sections for AWG cables for main contacts for box terminal           using the front clamping point         2x (1 2.5 mm²), 2x (2.5 6 mm²)           type of connectable conductor cross-sections for auxiliary contacts         2x (16 10)           type of connectable conductor cross-sections for auxiliary contacts         2x (0.25 2.5 mm²)           e finely stranded with core end processing         2x (0.25 1.5 mm²)           type of connectable conductor cross-sections for AWG cables         2x (20 14)           e for auxiliary contacts         2x (20 16)			
number of poles for main current circuit  connections/ Terminals  type of electrical connection			
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • for auxiliary and control circuit  screw-type terminals  onumber of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • solid  • solid  • solid  • solid  • solid  • using the front clamping point  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing		- 111	
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  1  number of CO contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • solid  • solid  • solid  • solid  • solid  • finely stranded with core end processing  2x (0.25 2.5 mm²)  2x (0.25 2.5 mm²)  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing	<u> </u>		3
• for main current circuit     • for auxiliary and control circuit     number of NC contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     number of CO contacts for auxiliary contacts     number of CO contacts for auxiliary contacts     type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point     • solid			
• for auxiliary and control circuit     number of NC contacts for auxiliary contacts     number of NO contacts for auxiliary contacts     number of CO contacts for auxiliary contacts     1     number of CO contacts for auxiliary contacts     type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point     • solid     • solid     • finely stranded with core end processing     type of connectable conductor cross-sections for AWG cables for main contacts for box terminal     • using the front clamping point     vusing the front clamping point     type of connectable conductor cross-sections for auxiliary contacts     • solid     • solid     • finely stranded with core end processing     type of connectable conductor cross-sections for AWG cables     • for auxiliary contacts     • for auxiliary contacts     • for auxiliary contacts finely stranded with core end processing     very contacts for auxiliary contacts finely stranded with core end processing     very contacts finely stranded with core end processing			
number of NC contacts for auxiliary contacts  number of NO contacts for auxiliary contacts  1 number of CO contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • solid  2x (1 2.5 mm²), 2x (2.5 6 mm²)  2x (1 2.5 mm²), 2x (2.5 6 mm²)  2x (1 2.5 mm²)			**
number of NO contacts for auxiliary contacts  number of CO contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • solid  • finely stranded with core end processing  2x (1 2.5 mm²), 2x (2.5 6 mm²)  2x (16 10)  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing	for auxiliary and control circuit		screw-type terminals
number of CO contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  2x (1 2.5 mm²), 2x (2.5 6 mm²)  2x (16 10)  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing	number of NC contacts for auxiliary contacts		0
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • solid  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing	number of NO contacts for auxiliary contacts		1
contacts for box terminal using the front clamping point  • solid  • solid  2x (1 2.5 mm²), 2x (2.5 6 mm²)  • finely stranded with core end processing  2x (1 2.5 mm²), 2x (2.5 6 mm²)  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  2x (16 10)  type of connectable conductor cross-sections for auxiliary contacts  • solid  2x (0.25 2.5 mm²)  • finely stranded with core end processing  2x (0.25 1.5 mm²)  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing	number of CO contacts for auxiliary contacts		0
<ul> <li>◆ finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables for main contacts for box terminal</li> <li>◆ using the front clamping point</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>◆ solid</li> <li>◆ finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables</li> <li>◆ for auxiliary contacts</li> <li>◆ for auxiliary contacts finely stranded with core end processing</li> <li>2x (20 14)</li> <li>xx (20 16)</li> </ul>	· · · · · · · · · · · · · · · · · · ·		
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing	• solid		2x (1 2.5 mm²), 2x (2.5 6 mm²)
cables for main contacts for box terminal  • using the front clamping point  type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing  2x (20 14)  • for auxiliary contacts finely stranded with core end processing	<ul> <li>finely stranded with core end processing</li> </ul>		2x (1 2.5 mm²), 2x (2.5 6 mm²)
<ul> <li>using the front clamping point</li> <li>type of connectable conductor cross-sections for auxiliary contacts</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts finely stranded with core end processing</li> <li>2x (0.25 2.5 mm²)</li> <li>2x (0.25 1.5 mm²)</li> <li>2x (20 14)</li> <li>2x (20 14)</li> <li>2x (20 16)</li> </ul>	••		
type of connectable conductor cross-sections for auxiliary contacts  • solid  • finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts  • for auxiliary contacts finely stranded with core end processing  2x (0.25 2.5 mm²)  2x (0.25 1.5 mm²)  2x (20 14)  2x (20 14)  2x (20 16)	<ul> <li>using the front clamping point</li> </ul>		2x (16 10)
ontacts  o solid  finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables  of for auxiliary contacts  for auxiliary contacts finely stranded with core end processing  2x (0.25 2.5 mm²)  2x (0.25 1.5 mm²)  2x (20 14)  2x (20 14)  2x (20 16)			,
• finely stranded with core end processing  type of connectable conductor cross-sections for AWG cables      • for auxiliary contacts     • for auxiliary contacts finely stranded with core end processing  2x (0.25 1.5 mm²)  2x (20 14)  2x (20 14)	**		
<ul> <li>◆ finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for AWG cables</li> <li>◆ for auxiliary contacts</li> <li>◆ for auxiliary contacts finely stranded with core end processing</li> </ul> 2x (20 14) 2x (20 16)	• solid		2x (0.25 2.5 mm²)
type of connectable conductor cross-sections for AWG cables  • for auxiliary contacts • for auxiliary contacts finely stranded with core end processing  2x (20 14) 2x (20 16)			
<ul> <li>for auxiliary contacts</li> <li>for auxiliary contacts finely stranded with core end processing</li> <li>2x (20 14)</li> <li>2x (20 16)</li> </ul>	type of connectable conductor cross-sections for AWG		
• for auxiliary contacts finely stranded with core end processing 2x (20 16)			2x (20 14)
processing	•		
Ambient conditions	processing		ZX (ZU 10)
	Ambient conditions		

installation altitude at height above sea level	m	5 000
environmental category		
<ul> <li>during transport according to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
during storage according to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during operation according to IEC 60721		3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
ambient temperature		
<ul> <li>during operation</li> </ul>	°C	-25 +60
during storage	°C	-40 +80
derating temperature	°C	40
protection class IP on the front according to IEC 60529		IP20
touch protection on the front according to IEC 60529		finger-safe, for vertical contact from the front
UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	2
• at 460/480 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	5
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		

**General Product Approval** 

Confirmation











EMV Test Certificates other Environment



<u>KC</u>

Type Test Certificates/Test Report

Miscellaneous

Confirmation



**Environment** 

Environmental Confirmations

## 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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3016-1BB14}$ 

Cax online generator

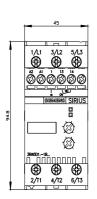
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3016-1BB14

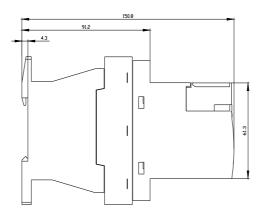
 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$ 

https://support.industry.siemens.com/cs/ww/en/ps/3RW3016-1BB14

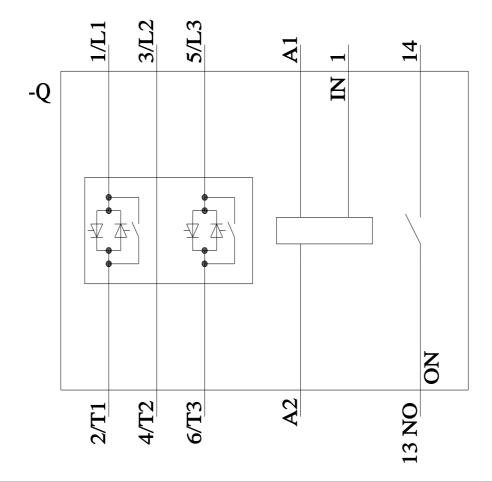
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW3016-1BB14&lang=en









last modified:

6/28/2024