## **SIEMENS**

Data sheet 3RW3046-2BB14



SIRIUS soft starter S3 80 A, 45 kW/400 V, 40 °C 200-480 V AC, 110-230 V AC/DC spring-type terminals

General technical data		
product brand name		SIRIUS
product feature		
<ul> <li>integrated bypass contact system</li> </ul>		Yes
• thyristors		Yes
product function		
<ul> <li>intrinsic device protection</li> </ul>		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
reference code according to EN 61346-2		Q
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750		G
Power Electronics		
product designation		Soft starter
operational current		
<ul> <li>at 40 °C rated value</li> </ul>	Α	80
<ul> <li>at 50 °C rated value</li> </ul>	Α	73
at 60 °C rated value	А	66
yielded mechanical performance for 3-phase motors		
• at 230 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	22
• at 400 V		
<ul> <li>at standard circuit at 40 °C rated value</li> </ul>	kW	45
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	20
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	%	115

operation typical Sype of voltage of the control supply voltage control supply voltage frequency 2 rated value   12	power loss [W] at operational current at 40 °C during	W	12
type of voltage of the control supply voltage Control supply voltage frequency 7 rated value Control supply voltage frequency 5 rated value Figure 1 of the control supply voltage Figure 1 of the control supply voltage Figure 2 of the control supply voltage Figure 2 of the control supply voltage Figure 2 of the control supply voltage 1 of AC at 50 ftz Control supply voltage 1 at AC at 50 ftz Control supply voltage 1 at AC at 50 ftz Control supply voltage 1 at AC at 50 ftz Control supply voltage 1 at AC at 50 ftz Control supply voltage 1 at AC at 50 ftz Control supply voltage 1 at AC at 50 ftz Control supply voltage 1 at AC at 50 ftz Control supply voltage 1 at AC at 50 ftz Control supply voltage 1 at AC at 50 ftz Control supply voltage 1 at AC at 50 ftz Control supply voltage 1 at DC Figure 2 of the control supply voltage at AC at 50 ftz Control supply voltage 1 at DC Figure 2 of the control supply voltage at AC at 50 ftz Control supply voltage 1 at DC Figure 2 of the control supply voltage at 50 ftg. Control supply voltage 1 at DC Figure 3 of the control supply voltage at 50 ftg. Control supply voltage 1 at DC Figure 3 of the control supply voltage at 50 ftg. Control supply voltage 1 at DC Figure 3 of the control supply voltage at 50 ftg. Control supply voltage 1 at DC Figure 3 of the control supply voltage at 50 ftg. Control supply voltage 1 at DC Figure 3 of the control supply voltage at 50 ftg. Control supply voltage 1 at DC Figure 3 of the control supply voltage at 50 ftg. Control supply voltage 1 at DC Figure 3 of the control supply voltage at 50 ftg. Control supply voltage 1 at DC Figure 3 of the control supply voltage at 50 ftg. Control supply voltage 1 at DC Figure 3 of the control supply voltage at 50 ftg. Control supply voltage 1 at DC Figure 3 of the control supply voltage at 50 ftg. Control supply 5 of the cont		VV	12
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relative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC at 50 Hz voltage 1 at DC voltage 1	control supply voltage frequency 1 rated value	Hz	50
Frequency relative positive tolerance of the control supply voltage frequency control supply voltage 1 at AC at 50 Hz Control supply voltage 1 at AC at 50 Hz Control supply voltage 1 at AC at 50 Hz Control supply voltage 1 at AC at 50 Hz  Freative negative tolerance of the control supply voltage at AC at 50 Hz Freative negative tolerance of the control supply voltage at AC at 50 Hz  Freative negative tolerance of the control supply voltage at AC at 50 Hz  Freative negative tolerance of the control supply voltage at AC at 50 Hz  Freative negative tolerance of the control supply voltage at AC at 50 Hz  Freative negative tolerance of the control supply voltage at AC at 50 Hz  Freative positive tolerance of the control supply voltage at AC at 50 Hz  Freative positive tolerance of the control supply voltage at AC at 50 Hz  Freative positive tolerance of the control supply voltage at AC at 50 Hz  Freative positive tolerance of the control supply voltage at AC at 50 Hz  Freative positive tolerance of the control supply voltage at AC at 50 Hz  Freative positive tolerance of the control supply voltage at AC at 50 Hz  Freative positive tolerance of the control supply voltage at AC at 50 Hz  Freative positive tolerance of the control supply voltage at AC at 50 Hz  Freative positive tolerance of the control supply voltage at AC at 50 Hz  Freative positive tolerance of the control supply voltage at BC  Freative positive tolerance of the control supply voltage at BC  Freative positive tolerance of the control supply voltage at BC  Freative positive tolerance of the control supply voltage at BC  Freative positive tolerance of the control supply voltage at BC  Freative positive tolerance of the control supply voltage at BC  Freative positive tolerance of the control supply voltage at BC  Freative positive tolerance of the control supply voltage at BC  Freative positive tolerance of the control supply voltage at BC  Freative positive tolerance of the control supply voltage at BC  Freative positive tolerance of the control suppl	control supply voltage frequency 2 rated value	Hz	60
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AC at 60 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  Mechanical data  size of engine control device  width  mm 70  helight  mm 170  deepth  fastening method  mounting position  mounting position  with vertical mounting surface +7-10" rotatable, with vertical mounting surface +7-10" rotatable to the front and tack  ### Control of the food and tack  ### Cont		%	-15
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size of engine control device  size of engine control device  width  mm 70  height mm 170  depth mm 190  fastening method screw and snap-on mounting  with vertical mounting surface +/-10" intable to the front and back  required spacing with side-by-side mounting  upwards mm 60  at the side mm 30  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  number of NC contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  solid  finely stranded with core end processing  stranded  finely stranded with core end processing  stranded  finely stranded with core end processing  stranded  stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  solid  finely stranded with core end processing  stranded  stranded  2x (2.5 16 mm²)  4x 70 mm²  1ype of connectable conductor cross-sections for main contacts for box terminal using both clamping point  solid  finely stranded with core end processing  stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  solid  finely stranded with core end processing  stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  stranded  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal		%	10
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width mm 70 height mm 170 depth mm 190  fastening method 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 mm 60  • upwards mm 60 • at the side mm 30 • downwards 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 spring-loaded terminals number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 1 type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point 1 • solid 2x (2.5 16 mm²) • stranded 2x (2.5 16 mm²) • stranded 3x (2.5 35 mm² • stranded 3x (2.5 35 mm² • stranded 4x (3.5 35 mm² • stranded 5x (3.5 35 mm² • stranded 5x (3.5 35 mm² • stranded 6x (3.5 35 mm² • stranded 7x (3.5 35 mm²)	Mechanical data		
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fastening method  mounting position  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 auxiliary and control circuit  • for auxiliary and control circuit  • screw-type terminals  type of electrical connection • 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 Do terminal using the front clamping point • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • stranded type of connectable conductor cross-sections for AWG cables for main contacts for box terminal	height	mm	
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  downwards  mm  40  wire length maximum  number of poles for main current circuit  of main current circuit  for auxiliary and control circuit  for auxiliary and control circuit  spring-loaded terminals  type of electrical connection  for auxiliary contacts  number of NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  solid  finely stranded with core end processing  stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  solid  finely stranded with core end processing  stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping points  solid  finely stranded with core end processing  stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  solid  finely stranded with core end processing  stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  solid  finely stranded with core end processing  stranded  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal	·	mm	
required spacing with side-by-side mounting  • upwards • at the side • 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 NC 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 • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the point • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal			
• upwards     • at the side     • downwards     • mm 30     • 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     • for auxiliary and control circuit spring-loaded terminals     number of NC contacts for auxiliary contacts     number of NC 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 main contacts for box terminal using the front clamping point     • solid     • solid     • finely stranded with core end processing     • stranded     type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point     • solid     • finely stranded with core end processing     • stranded     type of connectable conductor cross-sections for main contacts for box terminal using both clamping points     • solid     • finely stranded with core end processing     • stranded     type of connectable conductor cross-sections for main contacts for box terminal using both clamping points     • solid     • finely stranded with core end processing     • stranded     type of connectable conductor cross-sections for main contacts for box terminal using both clamping points     • solid     • solid     • finely stranded with core end processing     • stranded     type of connectable conductor cross-sections for AWG cables for main contacts for box terminal	mounting position		
• at the side • 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 • for auxiliary contacts 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 • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping point • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points • solid • finely stranded with core end processing • stranded  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal	required spacing with side-by-side mounting		
downwards     wire length maximum     number of poles for main current circuit     screw-type formals     type of electrical connection     of or main current circuit     or main current circuit     screw-type terminals     screw-type terminals     screw-type terminals     sorew-type termin	• upwards	mm	60
wire length maximum     m     300       number of poles for main current circuit     3       Connections/ Torminals       type of electrical connection <ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>spring-loaded terminals</li> </ul> number of NC contacts for auxiliary contacts     0       number of CO contacts for auxiliary contacts     1       number of CO contacts for auxiliary contacts     0       type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point     2x (2.5 16 mm²)       solid     2x (2.5 35 mm²       stranded     4 70 mm²       type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point     2x (2.5 16 mm²)       solid     2x (2.5 50 mm²       stranded     10 70 mm²       type of connectable conductor cross-sections for main contacts for box terminal using both clamping points     2x (2.5 35 mm²)       solid     2x (2.5	• at the side	mm	30
number of poles for main current circuit  Connections/ Terminals  type of electrical connection	downwards	mm	40
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  number of NC contacts for auxiliary contacts  number of NC 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  • stranded with core end processing  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • solid  • solid  • solid  • solid  • finely stranded with core end processing  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • solid  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  •	wire length maximum	m	300
type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • for auxiliary and control circuit  spring-loaded terminals  number of NC contacts for auxiliary contacts  number of NC contacts for auxiliary contacts  type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • solid  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • solid  • stranded with core end processing  • stranded with core end processing  • stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • solid  • stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  •	·		3
• for main current circuit     • for auxiliary and control circuit     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 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     • stranded     • stranded     type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point     • solid     • finely stranded with core end processing     • stranded     † stranded     * x (2.5 16 mm²)     * solid     * solid     * x (2.5 16 mm²)     * type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point     • solid     * stranded     * x (2.5 16 mm²)     * stranded     * x (2.5 16 mm²)     * stranded     * x (2.5 35 mm²)			
• 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     • stranded     † stranded with core end processing     • stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point     • solid     • solid     • solid     • stranded type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point     • solid     • stranded type of connectable conductor cross-sections for main contacts for box terminal using both clamping points     • solid     • solid     • solid     • finely stranded with core end processing     • stranded     † 2x (2.5 16 mm²)     * solid     * 2x (2.5 16 mm²)     * 2x (2.5 35 mm²)     * stranded	type of electrical connection		
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  • stranded  • solid  • finely stranded with core end processing  • stranded  • finely stranded with core end processing  • stranded  • finely stranded with core end processing  • stranded  • stranded  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  • solid  • solid  • solid  • finely stranded with core end processing  • stranded  • finely stranded with core end processing  • stranded  • solid  • s			**
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  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • solid  • solid  • solid  • solid  • finely stranded with core end processing  • stranded  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  • sol	·		. 5
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  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • solid  • solid  2x (2.5 16 mm²)  2.5 35 mm²  4 70 mm²   type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point  • solid  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  2x (2.5 16 mm²)  2.5 50 mm²  10 70 mm²  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  2x (2.5 16 mm²)  2x (2.5 35 mm²)  2x (2.5 35 mm²)  • stranded  2x (10 50 mm²)	-		
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point  • solid  • finely stranded with core end processing  • stranded  • stranded  • solid  • solid  • solid  • solid  • solid  • solid  • finely stranded with core end processing  • stranded  • stranded  • stranded  • solid  • finely stranded with core end processing  • stranded  • stranded  • stranded  • stranded  • solid  •	·		
<ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using both clamping points</li> <li>solid</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for AWG cables for main contacts for box terminal</li> </ul>	type of connectable conductor cross-sections for main		0
<ul> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using both clamping points</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for AWG cables for main contacts for box terminal</li> </ul>			0.00
● stranded      type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point      ● solid			
contacts for box terminal using the back clamping point  • solid  • finely stranded with core end processing  • stranded  type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  • solid  • finely stranded with core end processing  • stranded  2x (2.5 16 mm²)  2x (2.5 16 mm²)  2x (2.5 35 mm²)  2x (2.5 35 mm²)  2x (10 50 mm²)  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal			
<ul> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for main contacts for box terminal using both clamping points</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for AWG cables for main contacts for box terminal</li> </ul>			
stranded      type of connectable conductor cross-sections for main contacts for box terminal using both clamping points      solid     solid     inely stranded with core end processing     stranded     stranded      type of connectable conductor cross-sections for AWG cables for main contacts for box terminal  10 70 mm²  2x (2.5 16 mm²)  2x (2.5 35 mm²)  2x (10 50 mm²)	• solid		2x (2.5 16 mm²)
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points  • solid  • finely stranded with core end processing  • stranded  2x (2.5 16 mm²)  2x (2.5 35 mm²)  2x (10 50 mm²)  type of connectable conductor cross-sections for AWG cables for main contacts for box terminal			
<ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>stranded</li> <li>type of connectable conductor cross-sections for AWG cables for main contacts for box terminal</li> </ul> 2x (2.5 16 mm²) 2x (2.5 35 mm²) 2x (10 50 mm²)	type of connectable conductor cross-sections for main		
<ul> <li>finely stranded with core end processing</li> <li>≥ stranded</li> <li>2x (2.5 35 mm²)</li> <li>2x (10 50 mm²)</li> <li>type of connectable conductor cross-sections for AWG cables for main contacts for box terminal</li> </ul>			2x (2.5 16 mm²)
• stranded			
type of connectable conductor cross-sections for AWG cables for main contacts for box terminal			
• using the back clamping point 10 2/0	type of connectable conductor cross-sections for AWG		
U r Ur	<ul> <li>using the back clamping point</li> </ul>		10 2/0

<ul> <li>using the front clamping point</li> </ul>		10 2/0
<ul> <li>using both clamping points</li> </ul>		2x (10 1/0)
type of connectable conductor cross-sections for DIN cable lug for main contacts		
<ul> <li>finely stranded</li> </ul>		2 x (10 50 mm²)
• stranded		2x (10 70 mm²)
type of connectable conductor cross-sections for auxiliary contacts		
• solid		2x (0.25 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.25 1.5 mm²)
type of connectable conductor cross-sections for AWG cables		
• for main contacts		2x (7 1/0)
<ul> <li>for auxiliary contacts</li> </ul>		2x (24 14)
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
Certificates/ approvals		



Confirmation









EMC

**Declaration of Conformity** 

**General Product Approval** 

**Test Certificates** 

other





Type Test Certificates/Test Report

Special Test Certificate

Miscellaneous Confirmation

## Railway

Vibration and Shock

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	25
• at 460/480 V		
<ul> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	50
contact rating of auxiliary contacts according to UL		B300 / R300







