SIEMENS

Data sheet 3RW4028-1BB04



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 $^{\circ}\text{C}$ 200-480 V AC, 24 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		
• intrinsic device protection		Yes
 motor overload protection 		Yes
 evaluation of thermistor motor protection 		No
external reset		Yes
adjustable current limitation		Yes
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	1 600
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	А	38
 at 50 °C rated value 	А	34
at 60 °C rated value	А	31
yielded mechanical performance for 3-phase motors		
● at 230 V		
 at standard circuit at 40 °C rated value 	kW	11
● at 400 V		
 at standard circuit at 40 °C rated value 	kW	18.5
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value	hp	10
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
		10
relative positive tolerance of the operating voltage at standard circuit	%	10

adjustable motor current for motor overload protection minimum rates of value continuous operating current (% of leg) at 40 °C c % 5 115 power loss (VI) a doperational current at 40 °C during operation hybrid control supply voltage frequency 2 rated value	adjustable motor current for motor overload protection		
power toss [W] at operational current at 40 °C during operation typical operation typical operation typical operation typical operation typical power for the control supply voltage of voltage of the control supply voltage frequency 2 rated value		Α	23
power toss [W] at operational current at 40 °C during operation typical operation typical operation typical operation typical operation typical power for the control supply voltage of voltage of the control supply voltage frequency 2 rated value		%	115
Special Circuit Control Special Option Special Circuit Control Special Circuit Control Special Circuit Control Special Circuit Control Special Circuit Circuit Special Circuit Spe	power loss [W] at operational current at 40 °C during		
type of voltage of the control supply voltage control supply voltage frequency 2 rated value control supply voltage frequency 2 rated value relative negative tolerance of the control supply voltage frequency 2 rated value v			
control supply voltage frequency 2 rated value control supply voltage frequency 2 rated value required supply voltage frequency required supply voltage frequency required supply voltage frequency required supply voltage 1 at AC * at 50 Hz rated value * bill 50 Lz rated value * relative positive tolerance of the control supply voltage at 75 Lz rated value * relative positive tolerance of the control supply voltage at 75 Lz rated value * relative positive tolerance of the control supply voltage at 75 Lz rated value * relative positive tolerance of the control supply voltage at 75 Lz rated value * relative positive tolerance of the control supply voltage at 75 Lz rated value * voltage positive tolerance of the control supply voltage at 75 Lz rated value * voltage positive tolerance of the control supply voltage at 75 Lz rated value * voltage positive tolerance of the control supply voltage at 75 Lz rated value * voltage positive tolerance of the control supply voltage at 75 Lz rated value * voltage positive tolerance of the control supply voltage at 75 Lz rated value * voltage positive tolerance of the control supply voltage at 75 Lz rated value * voltage positive tolerance of the control supply voltage at 75 Lz rated value * voltage positive tolerance of the control supply voltage at 75 Lz rated value * voltage positive tolerance of the control supply voltage at 75 Lz rated value * voltage positive tolerance of the control supply voltage at 75 Lz rated value * voltage positive tolerance of the control supply voltage at 75 Lz			A O / D O
Fize 60			
relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency a 150 Hz rated value			
frequency relative polarive tolerance of the control supply voltage frequency * at 50 Hz rated value * at 60 Hz rated value * by * calcifer to fine the control supply voltage at AC at 60 Hz relative nogetive tolerance of the control supply voltage at AC at 60 Hz relative nogetive tolerance of the control supply voltage at AC at 60 Hz relative nogetive tolerance of the control supply voltage at AC at 60 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at BC relative positive 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 relative positive 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 relative positive 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 relative positive 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 relative positive tolerance of the control supply voltage at BC relative positive tolerance of the control supply voltage at BC relative tolerance of the Control supply voltage at BC relative tolerance of the Control supply voltage at BC relative tolerance of the Control supply voltage at BC relative tolerance of the Control supply voltage at BC relative tolerance of the Control supply voltage at BC relative tolerance of the Control supply voltage at BC relative tol			
frequency other control supply voltage 1 at AC at 00 Hz rated value by 4 at 50 Hz rated value by 4 at 50 Hz rated value by 5 at 50 Hz at 60 Hz rated value by 6 at 50 Hz at 60 Hz rated value by 7 24 4 at 50 Hz rated value by 6 at 50 Hz rated value by 7 24 AC at 50 Hz rated value by 8 at 50 Hz rated value by 10 AC AC at 50 Hz rated value by 10 AC rated value by 10 AC AC at 50 Hz rated value by 10 AC rated value by 10 AC aC at 50 Hz rated value by 10 AC aC at 50 Hz rated value by 10 AC rated value by 10 AC aC at 50 Hz rated value by 10 AC rated value by 24 rated value rated value by 24 rated value by 30 rated value by 40 rated value by 40 rated value by 40 rated value b			-10
* at 60 Hz rated value * at 60 Hz rated value * v 24 * relative negative tolerance of the control supply voltage at AC at 60 Hz rated value * v 24 * v 20 * v		% 	10
* at 80 Hz rated value * v	control supply voltage 1 at AC		
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 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at DC relative positive tolerance of the control supply voltage at DC display version for fault signal Mochanical data size of engine control device width mm 45 depth mm 155 mm 155 20 S0 width mm 155 screw and snap-on mounting wire length maximum required spacing with side-by-side mounting * upwards * at the side * downwards wire length maximum mumber of pole for main current circuit * for auxiliary and control circuit * elicit connectable * unmber of NG contacts for auxiliary contacts number of NG contacts for box terminal * using the front clamping point type of connectable conductor cross-sections for Mix cables for main contacts for box terminal * using the front clamping point type of connectable conductor cross-sections for auxiliary contacts * cold * (NG auxiliary contacts for box terminal * using the front clamping point type of connectable conductor cross-sections for auxiliary contacts * cold * (NG auxiliary contacts) * (NG auxiliary c	at 50 Hz rated value	V	24
AC at 50 HZ relative positive tolorance of the control supply voltage at AC at 50 HZ relative positive tolorance of the control supply voltage at AC at 50 HZ relative positive tolorance of the control supply voltage at AC at 50 HZ control supply voltage 1 at DC rated value v 24 control supply voltage 1 at DC rated value v 24 relative positive tolorance of the control supply voltage at DC control supply voltage 1 at DC rated value v 24 realized respective tolorance of the control supply voltage at DC supply voltage 1 at DC rated value v 20 cred Mcchanical data size of engine control device width mm 45 height depth mm 125 depth mm 155 fastening method mounting position with additional fan: With vertical mounting surface +/-90" rolatable, with vertical mounting surface +/-90" rolatable, with vertical mounting surface +/-10" tolatable, with vertical mounting surface +/10" tolatable, with vertical mounting surface +/-	at 60 Hz rated value	V	24
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 control supply voltage 1 at DC rated value V 24 relative negative tolerance of the control supply voltage at DC relative negative tolerance of the control supply voltage at DC relative negative tolerance of the control supply voltage at DC relative negative tolerance of the control supply voltage at DC relative negative tolerance of the control supply voltage at DC Mochanical data size of engine control device width mm 45 height mm 155 depth mm 155 fastening method mounting position with additional fan: With vertical mounting surface +/-90° rolatable, with vertical mounting surface +/-90° rolatable, with vertical mounting surface +/-10° rolatable		%	-15
AC at 60 HZ control supply voltage 1 at DC rated value voltage 2 voltage 1 at DC rated value voltage 3 voltage 1 at DC rated value voltage 4 voltage 2 voltage 3 voltage 3 voltage 4 vol		%	10
AC at 60 Hz control supply voltage 1 at DC rated value relative negative tolerance of the control supply voltage at DC relative negative tolerance of the control supply voltage at DC display version for fault signal Mechanical data size of engine control device width height mm		%	-15
control supply voltage 1 at DC rated value velative negative 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 45 height depth fastening method mounting position fastening method mounting position with additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-10° totatable, with vertical mounting surface +/-10° totatable surface +/-10° tota		%	10
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 Mechanical data size of engine control device width height mm 45 height mm 125 depth fastening method mounting position with additional fan: With vertical mounting surface +/-90" rotatable, with vertical mounting surface +/-100" tolatable, with vertical mounting surface +/-100" tol		V	24
relative positive tolerance of the control supply voltage at DC display version for fault signal red Machanical data Size of engine control device SD	relative negative tolerance of the control supply voltage at		
display version for fault signal red	relative positive tolerance of the control supply voltage at	%	20
Size of engine control device Size of engine control devic			red
size of engine control device width height depth mm 45 fastening method mounting position With additional fan: With vertical mounting surface +/-90° rolatable, with vertical mounting surface +/-22,5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° to art back Without additional fan: With vertical mounting surface +/-10° to art back Without additional fan: With vertical mounting surface +/-10° to rolatable, with vertical mounting surfa		_	icu
width height mm 45 height mm 125 fastening method screw and snap-on mounting surface +/-90° rotalable, with vertical mounting surface +/-22.5° tillable to the front and back Without additional fan: With vertical mounting surface +/-10° to larbin, with vertical mounting surface +/-10° to larbin with vertical mounting surface +/-10° to larbin, with vertical mounting sur			20
height depth			
depth screw and snap-on mounting surface +/-90° rotatable, with retrical mounting surface +/-22.5° tillable to the front and back Without additional fan: With vertical mounting surface +/-22.5° tillable to the front and back Without additional fan: With vertical mounting surface +/-10° to rotatable, with vertical mounting surface +/-10° to rotatable, with vertical mounting surface +/-10° to at the side			
fastening method mounting position with additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° totatable, with vertical mounting surface +/-22.5° tiltable to he front able with vertical mounting surface +/-10° totatable, with vertical mounting surface +/-22.5° tiltable to the front admounting surface +/-10° totatable, with vertical mounting surface +/-10° totatable, with vertical mounting surface +/-10° to templing surface +/-10° totatable, with vertical mounting surface +/-10° to templing surface +/-10° totatable, with vertical mounting surface +/-10° totatable, with vertical mounting surface +/-10° to templing surface +/-10° totatable, with vertical mounting surface +/-10° to end to be a surface +/-10° totatable, with vertical mounting surface +/-10° to end to be a surface +/-10° totatable, with vertical mounting surface +/-10° to end to be a surface +/-10° totatable, with vertical mounting surface +/-10° totatable, with vertical mounting surface +/-10° to end totatable, with vertical mounting surface +/-10° totatable, with vertical mounting surface +/-10° totatable, with vertical mounting surface +/-10° to end totatable, with vertical mounting surface +/-10° to end totatable, with vertical mounting surface +/-10° totatable, with vertical mou	-		
mounting position With additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° to the front and back Without additional fan: With vertical mounting surface +/-10° t required spacing with side-by-side mounting • upwards • at the side • downwards • mm • do • downwards • mm 40 wire length maximum	·	111111	
rotatable, with vertical mounting surface *-/- 22.5* tiltable to the front and back Without additional fan: With vertical mounting surface *-/- 10° to the front and back Without additional fan: With vertical mounting surface *-/- 10° to the front and back With out additional fan: With vertical mounting surface *-/- 10° to the front and back With certical mounting surface *-/- 10° to the front and back With certical mounting surface *-/- 10° to the front and back With certical mounting surface *-/- 10° to the front and back With certical mounting surface *-/- 10° to the front and back With certical mounting surface *-/- 10° to the front and back With certical mounting surface *-/- 10° to the front and back With certical mounting surface *-/- 10° to the front and back With certical mounting surface *-/- 10° to the front and back With certical mounting surfac			·
 upwards at the side downwards mm 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 screw-type terminals for auxiliary and control circuit screw-type terminals number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts 1 type of connectable conductor cross-sections for 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 using the front clamping point type of connectable conductor cross-sections for auxiliary contacts solid 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10) type of connectable conductor cross-sections for auxiliary contacts solid 2x (0.5 2.5 mm²) 	mounting position		rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting
 upwards at the side downwards mm 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 screw-type terminals for auxiliary and control circuit screw-type terminals number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts 1 type of connectable conductor cross-sections for 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 using the front clamping point type of connectable conductor cross-sections for auxiliary contacts solid 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10) type of connectable conductor cross-sections for auxiliary contacts solid 2x (0.5 2.5 mm²) 	required spacing with side-by-side mounting		
• downwards wire length maximum m 300 number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • 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 • using the front clamping point type of connectable conductor cross-sections for auxiliary contacts • solid 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10) type of connectable conductor cross-sections for auxiliary contacts • solid 2x (0.5 2.5 mm²)		mm	60
wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	at the side	mm	15
number of poles for main current circuit Connections/ Terminals type of electrical connection	downwards	mm	40
number of poles for main current circuit Connections/ Terminals type of electrical connection	wire length maximum	m	300
type of electrical connection			3
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 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 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10) type of connectable conductor cross-sections for auxiliary contacts • solid 2x (0.5 2.5 mm²)			
 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 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 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10) type of connectable conductor cross-sections for auxiliary contacts solid 			
			screw-type terminals
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts 2 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 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 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 1x 8, 2x (16 10) type of connectable conductor cross-sections for auxiliary contacts • solid 2x (0.5 2.5 mm²)			
number of NO contacts for auxiliary contacts 1 type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • 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 2x (1 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10) 2x (0.5 2.5 mm²)			
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 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10) 2x (0.5 2.5 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 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 2x (1 2.5 mm²), 2x (2.5 6 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10) 2x (0.5 2.5 mm²)	number of NC contacts for auxiliary contacts		0
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 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x (2.5 mm²), 2x (2.5 6 mm²) 1x (3.5 mm²), 2x (2.5 6 mm²) 1x (4 2.5 mm²), 2x (2.5 6 mm²) 1x (5 2.5 mm²)	number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts		0 2
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 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10) 2x (0.5 2.5 mm²)	number of NC contacts 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		0 2
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 2x (0.5 2.5 mm²)	number of NC contacts 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		0 2 1
 using the front clamping point type of connectable conductor cross-sections for auxiliary contacts solid 1x 8, 2x (16 10) 2x (0.5 2.5 mm²) 	number of NC contacts 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		0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
type of connectable conductor cross-sections for auxiliary contacts • solid 2x (0.5 2.5 mm²)	number of NC contacts 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 type of connectable conductor cross-sections for AWG		0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm²
	number of NC contacts 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		0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 2x (1 2.5 mm²), 2x (2.5 6 mm²)
	number of NC contacts 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 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		0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 2x (1 2.5 mm²), 2x (2.5 6 mm²)
 ■ interry stranged with core end processing ZX (0.5 1.5 mm²) 	number of NC contacts 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 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		0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10)
type of connectable conductor cross-sections for AWG cables	number of NC contacts 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 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		0 2 1 2x (1 2.5 mm²), 2x (2.5 6 mm²), max. 1x 10 mm² 2x (1 2.5 mm²), 2x (2.5 6 mm²) 1x 8, 2x (16 10)

for auxiliary contacts		2x (20 14)
for auxiliary contacts finely stranded with core end		2x (20 16)
processing		27 (20 10)
Ambient conditions		
installation altitude at height above sea level	m	5 000
environmental category		
 during transport according to IEC 60721 		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		
 during operation 	°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
Environmental footprint		
Global Warming Potential [CO2 eq] total	kg	121
Global Warming Potential [CO2 eq] during manufacturing	kg	4.24
global warming potential [CO2 eq] during sales	kg	0.207
Global Warming Potential [CO2 eq] during operation	kg	117
Global Warming Potential [CO2 eq] after end of life	kg	-0.229
UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 220/230 V		
 at standard circuit at 50 °C rated value 	hp	10
• at 460/480 V		
 — at standard circuit at 50 °C rated value 	hp	25
contact rating of auxiliary contacts according to UL		B300 / R300
Approvals Certificates		

General Product Approval



Confirmation









EMV For use in hazardous locations Test Certificates



<u>KC</u>





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping other Railway Environment







Confirmation

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,...)

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4028-1BB04

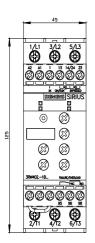
Cax online generator

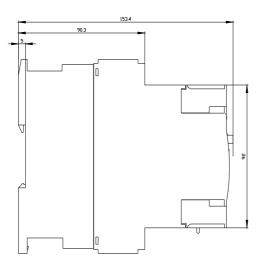
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-1BB04

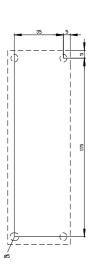
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-1BB04

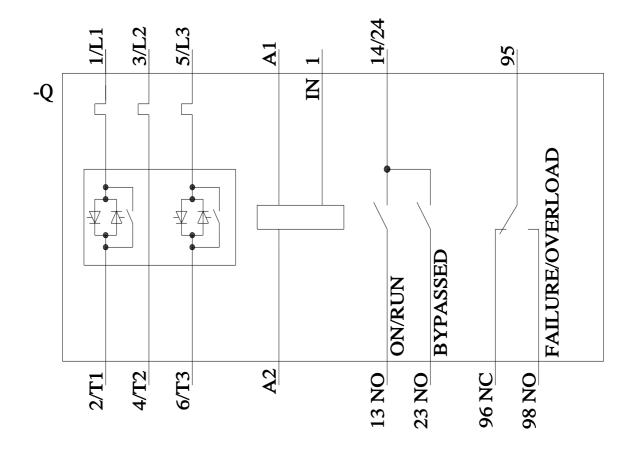
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4028-1BB04&lang=en









last modified: 11/9/2024 🖸