SIEMENS

Data sheet

3RW4028-2BB04



SIRIUS soft starter S0 38 A, 18.5 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC spring-type terminals

General technical data		
product brand name		SIRIUS
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
reference code acc. to DIN EN 61346-2		Q
reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		G
Power Electronics		
product designation		Soft starter
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 	W	11 000
• at 400 V		
— at standard circuit at 40 °C rated value	W	18 500
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
relative positive tolerance of the operating voltage at standard circuit	%	10
minimum load [%]	%	20

adjustable motor current for motor overload protection minimum rated value	A	23
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	19
Control circuit/ Control		
type of voltage of the control supply voltage	_	AC/DC
control supply voltage frequency 1 rated value	Hz	50
control supply voltage frequency 2 rated value	Hz	60
relative negative tolerance of the control supply voltage frequency	%	-10
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC		
 at 50 Hz rated value 	V	24
at 60 Hz rated value	V	24
relative negative tolerance of the control supply voltage at AC at 50 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	20
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-20
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	20
control supply voltage 1 at DC rated value	V	24
relative negative tolerance of the control supply voltage at DC	%	-20
relative positive tolerance of the control supply voltage at DC	%	20
display version for fault signal		red
Mechanical data		
size of engine control device		S0
width	mm	45
height	mm	150
depth	mm	155
fastening method		screw and snap-on mounting
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° rotatable, with vertical mounting surface +/- 10° t
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
Connections/ Terminals		
type of electrical connection		
 for main current circuit 		spring-loaded terminals
 for auxiliary and control circuit 		spring-loaded terminals
number of NC contacts for auxiliary contacts		0
number of NO contacts for auxiliary contacts		2
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		$2x(1 - 2.5 \text{ mm}^2) 2x(2.5 - 6 \text{ mm}^2) = x_0 x_1 x_1 0 \text{ mm}^2$
		2x (1 2.5 mm ²), 2x (2.5 6 mm ²), max. 1x 10 mm ²
finely stranded with core end processing type of connectable conductor cross-sections at AWG cables for main contacts for box terminal	_	2x (1 2.5 mm²), 2x (2.5 6 mm²)
		1x 8 2x (16 10)
using the front clamping point		1x 8, 2x (16 10)
type of connectable conductor cross-sections for main contacts		

 solid 			1	10 mm²		
 finely stranded 	with core end processi	ng	1	6 mm²		
type of connectable auxiliary contacts	e conductor cross-sec	tions for				
 solid 			2	x (0.25 2.5	5 mm²)	
 finely stranded 	with core end processi	ng	2	x (0.25 1.5	5 mm²)	
type of connectable cables	e conductor cross-sec	tions at AWG				
 for main conta 	cts		1	6 10, 1x 8	i	
 for auxiliary co 	ontacts		2	x (24 14)		
Ambient conditions						
installation altitude	at height above sea le	vel	m 5	000		
environmental cate	gory					
 during transpo 	ort acc. to IEC 60721		2	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
 during storage 	acc. to IEC 60721				asional condensatior ist not get inside the	n), 1C2 (no salt mist), devices), 1M4
 during operation 	on acc. to IEC 60721				ation of ice, no conde and must not get into	nsation), 3C3 (no salt the devices), 3M6
ambient temperatu	re					
 during operation 	on		°C -2	25 +60		
 during storage)		°C -4	40 +80		
derating temperatu	re		°C 4	0		
protection class IP on the front acc. to IEC 60529			IF	IP20		
touch protection on the front acc. to IEC 60529			fi	finger-safe, for vertical contact from the front		
Certificates/ approva	ls					
General Product A	pproval				EMC	For use in hazard- ous locations
			E	AC	RCM	K ATEX
Declaration of Conformity	Test Certificates		Marine	/ Shipping		
C E EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate	Re	ovd's gister uis	PRS	DNV-GL ENVILLEDIE
other	Railway					
Confirmation	Confirmation					

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			
Further information					
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917					

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4028-2BB04

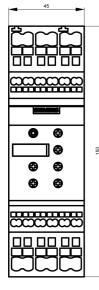
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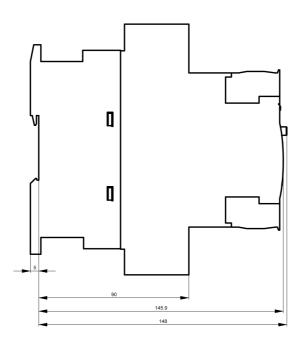
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4028-2BB04

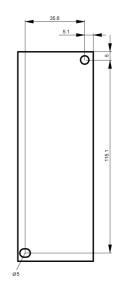
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

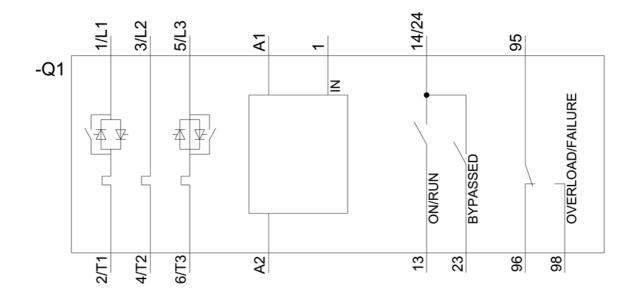
https://support.industry.siemens.com/cs/ww/en/ps/3RW4028-2BB04

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4028-2BB04&lang=en









last modified:

12/15/2020 🖸