SIEMENS



Data sheet

3RW4036-1TB04



SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC Screw terminals Thermistor motor protection

Figure similar

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 		Yes
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 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	-	
• at 40 °C rated value	А	45
• at 50 °C rated value	А	42
• at 60 °C rated value	А	39
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	22
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

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	_
minimum load [%]	%
adjustable motor current for motor overload protection minimum rated value	А
continuous operating current [% of le] at 40 °C	%
power loss [W] at operational current at 40 °C during operation typical	W
Control circuit/ Control	



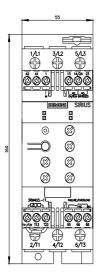
operation typical		
Control circuit/ Control		
type of voltage of the control supply voltage		AC/DC
control supply voltage frequency 1 rated value	Hz	50
control supply voltage frequency 2 rated value	Hz	60
relative negative tolerance of the control supply voltage frequency	%	-10
relative positive tolerance 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		S2
width	mm	55
height	mm	160
depth	mm	170
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	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		screw-type terminals
 for auxiliary and control circuit 		screw-type 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 (1.5 16 mm²)
 finely stranded with core end processing 		0.75 25 mm²
stranded		0.75 35 mm²
type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point		

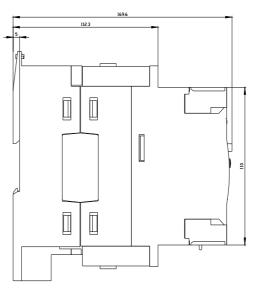
 solid 				2x (1	mm²)	Indone.
 finely stranded 	with core end processing	g		1.5 . mn		
 stranded 				1.5	P Juion	tudong
	e conductor cross-secti oox terminal using both					-
• solid				2x (1.5 16	mm²)	
	with core end processing	a		2x (1.5 16		
 stranded 		9		2x (1.5 25	,	
type of connectable	e conductor cross-secti ntacts for box terminal	ons at AWG		2(
 using the back 	clamping point			16 2		
 using the front 	clamping point			18 2		
 using both clar 				2x (16 2)		
_	e conductor cross-secti	ons for				
 solid 				2x (0.5 2.5	5 mm²)	
 finely stranded 	with core end processing	g		2x (0.5 1.5	5 mm²)	
type of connectable cables	e conductor cross-secti	ons at AWG				
 for auxiliary co 	ontacts			2x (20 14)		
	ontacts finely stranded wit	h core end		2x (20 16)		
processing						
Ambient conditions				E 000		
	at height above sea lev	/el	m	5 000		
environmental cate						
	ort according to IEC 6072	1			S1, 2M2 (max. fall heigh	
 during storage 	according to IEC 60721				casional condensation),	
 during operation 	on according to IEC 6072	1		3K6 (no form	ust not get inside the de ation of ice, no condens and must not get into th	sation), 3C3 (no salt
ambient temperatu	re				.	
 during operation 			°C	-25 +60		
 during storage 			°C	-40 +80		
derating temperature		°C	40			
	on the front according	to IEC	Ū	IP20		
60529						the frent
	n the front according to	IEC 60529		linger-sale, i	or vertical contact from	the front
Certificates/ approva		_	_			
General Product A	pproval					EMC
SP:	Confirmation		1	(ի	EAC	\bigotimes
CSA		ccc		UL		KCM
Test Certificates		Marine / Ship	ping			other
Type Test Certific-	Special Test Certific-			(FID)		<u>Confirmation</u>
ates/Test Report	<u>ate</u>	Lloyds		(33)	And the second s	Commation
		register			DNV-GL	
		LRS		PRS	Devolution	
Railway						
Vibration and Shock	Confirmation					

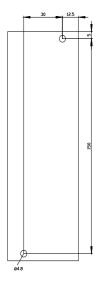
UL/CSA ratings			
yielded mechanical performance [hp] for 3-phase AC motor		Juiontuuong	
• at 220/230 V			
 — at standard circuit at 50 °C rated value 	hp	15	
• at 460/480 V			
— at standard circuit at 50 °C rated value	hp	30	
contact rating of auxiliary contacts according to UL		B300 / R300	
Further information			
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/1014949	917		
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10			
Industry Mall (Online ordering system)			
https://mall.industry.siemens.com/mall/en/en/Catalog/produc	t?mlfb=3RW4	<u>036-1TB04</u>	
Cax online generator			
http://support.automation.siemens.com/WW/CAXorder/defau	<u>llt.aspx?lang=</u>	en&mlfb=3RW4036-1TB04	

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

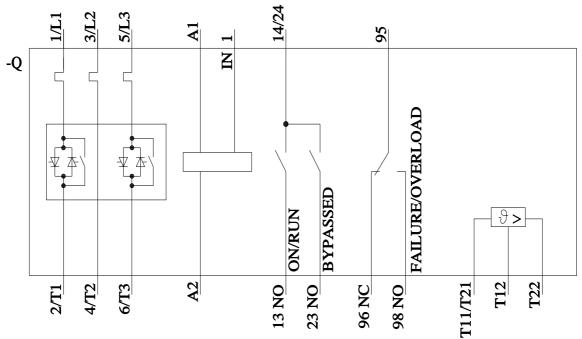
https://support.industry.siemens.com/cs/ww/en/ps/3RW4036-1TB04 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4036-1TB04&lang=en











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