SIEMENS

Data sheet 3RW4038-1TB05



SIRIUS soft starter S2 72 A, 45 kW/500 V, 40 $^{\circ}\text{C}$ 400-600 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 	Α	72		
 at 50 °C rated value 	Α	62		
 at 60 °C rated value 	Α	60		
yielded mechanical performance for 3-phase motors				
• at 400 V	1.347	0.7		
— at standard circuit at 40 °C rated value• at 500 V	kW	37		
 — at standard circuit at 40 °C rated value 	kW	45		
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	400 600		
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	А	35		
continuous operating current [% of le] at 40 °C	%	115		

I PLAN 4 4 4 1 1 4 4 4 A A A A A A A A A A A A	100	45
power loss [W] at operational current at 40 °C during	W	15
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	%	-10
voltage frequency		
relative positive tolerance of the control supply	%	10
voltage frequency		
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	%	-15
_	0/	10
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10
relative negative tolerance of the control supply	%	-15
voltage at AC at 60 Hz	70	-10
relative positive tolerance of the control supply	%	10
voltage at AC at 60 Hz	,,	
control supply voltage 1 at DC rated value	V	24
relative negative tolerance of the control supply	%	-20
voltage at DC		
relative positive tolerance of the control supply	%	20
voltage at DC		
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°
The second of th		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		00
• IIDWards	mm	60
•		00
at the side	mm	30
 at the side downwards		40
at the sidedownwardswire length maximum	mm	40 300
 at the side downwards wire length maximum number of poles for main current circuit 	mm mm	40
at the sidedownwardswire length maximum	mm mm	40 300
 at the side downwards wire length maximum number of poles for main current circuit 	mm mm	40 300
at the side downwards wire length maximum number of poles for main current circuit Connections/ Terminals	mm mm	40 300
at the side downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm	40 300 3
 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 	mm mm	40 300 3 screw-type terminals
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	mm mm	40 300 3 screw-type terminals screw-type terminals
 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 	mm mm	40 300 3 screw-type terminals screw-type terminals 0
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 NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	mm mm	40 300 3 screw-type terminals screw-type terminals 0 2
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 NO contacts for auxiliary contacts	mm mm	40 300 3 screw-type terminals screw-type terminals 0 2
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 NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for	mm mm	40 300 3 screw-type terminals screw-type terminals 0 2
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 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	mm mm	40 300 3 screw-type terminals screw-type terminals 0 2
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 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	mm mm	screw-type terminals screw-type terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm²
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 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	mm mm	screw-type terminals screw-type terminals o 2 1 2x (1.5 16 mm²)
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 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	mm mm	screw-type terminals screw-type terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm²
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 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	mm mm	screw-type terminals screw-type terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm²
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 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	mm mm	40 300 3 screw-type terminals screw-type terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm² 0.75 35 mm²
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 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	mm mm	40 300 3 screw-type terminals screw-type terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm² 0.75 35 mm²
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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 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	mm mm	40 300 3 screw-type terminals screw-type terminals 0 2 1 2x (1.5 16 mm²) 0.75 25 mm² 0.75 35 mm²
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°C	-40 +80 40 IP20 finger-safe, for vertical contact from the front
_	40 IP20
_	40
_	
°C	40 180
	-23 TOU
°C	-25 +60
	mist), 3S2 (sand must not get into the devices), 3M6
	3K6 (no formation of ice, no condensation), 3C3 (no salt
	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
m	5 000
	2x (20 16)
	2x (20 14)
	2x (0.5 1.5 mm²)
	2x (0.5 2.5 mm²)
	2x (16 2)
	18 2
	16 2
	2x (1.5 16 mm²) 2x (1.5 25 mm²)
	m

General Product Approval

EMC





Confirmation







Test Certificates Marine / Shipping other

Type Test Certificates/Test Report

Special Test Certificate







Confirmation

Railway

<u>Vibration and Shock</u> <u>Confirmation</u>

UL/CSA ratings		
yielded mechanical performance [hp] for 3-phase AC motor		
• at 460/480 V		
 at standard circuit at 50 °C rated value 	hp	40
• at 575/600 V		
 at standard circuit at 50 °C rated value 	hp	60
contact rating of auxiliary contacts according to UL		B300 / R300

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4038-1TB05

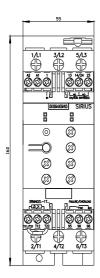
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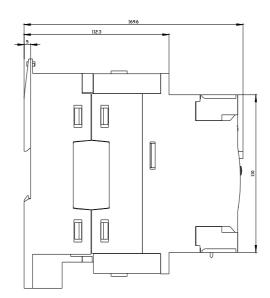
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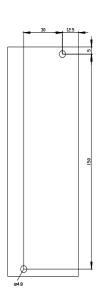
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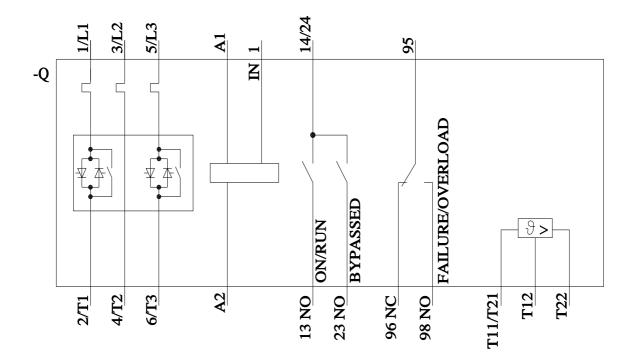
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RW4038-1TB05&lang=en









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