## SIEMENS

## Data sheet

## 3RW4047-2TB04



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC spring-type terminals Thermistor motor protection

product feature         • integrated bypass contact system         • thyristors         product function         • intrinsic device protection         • motor overload protection         • evaluation of thermistor motor protection         • external reset         • inside-delta circuit         product component motor brake output         insulation voltage rated value         V         6         reference code acc. to DIN EN 61346-2         Q         reference code acc. to DIN 40719 extended according	SIRIUS /es /es /es /es /es /es No No No S00 8, acc. to IEC 60947-4-2 Q
integrated bypass contact system     thyristors     roduct function     intrinsic device protection     intrinsic device protection     intrinsic device protection     intrinsic device protection     insulation of thermistor motor protection     inside-delta circuit     product component motor brake output     insulation voltage rated value     V     insulation voltage rated value     V     insulation     reference code acc. to DIN EN 61346-2     C	/es /es /es /es /es /es No No S00 8, acc. to IEC 60947-4-2
thyristors     thyristors     thyristors     intrinsic device protection     intrinsic device protection     intrinsic device protection     insolation of thermistor motor protection     evaluation of thermistor motor protection     v     external reset     v     adjustable current limitation     inside-delta circuit     N     product component motor brake output     insulation voltage rated value     V     degree of pollution     reference code acc. to DIN EN 61346-2     Q     reference code acc. to DIN 40719 extended according	/es /es /es /es /es /es No No S00 8, acc. to IEC 60947-4-2
product function       Y         • intrinsic device protection       Y         • motor overload protection       Y         • evaluation of thermistor motor protection       Y         • external reset       Y         • adjustable current limitation       Y         • inside-delta circuit       N         product component motor brake output       N         insulation voltage rated value       V         degree of pollution       3,         reference code acc. to DIN EN 61346-2       Q         reference code acc. to DIN 40719 extended according       G	Yes Yes Yes Yes No No S00 8, acc. to IEC 60947-4-2
• intrinsic device protection         Y           • motor overload protection         Y           • evaluation of thermistor motor protection         Y           • external reset         Y           • adjustable current limitation         Y           • inside-delta circuit         N           product component motor brake output         N           insulation voltage rated value         V           V         60           degree of pollution         3,           reference code acc. to DIN EN 61346-2         Q           reference code acc. to DIN 40719 extended according         G <td>Yes Yes Yes No No 300 8, acc. to IEC 60947-4-2</td>	Yes Yes Yes No No 300 8, acc. to IEC 60947-4-2
motor overload protection     evaluation of thermistor motor protection     external reset     adjustable current limitation     inside-delta circuit     product component motor brake output     insulation voltage rated value     V     degree of pollution     reference code acc. to DIN EN 61346-2     CQ reference code acc. to DIN 40719 extended according	Yes Yes Yes No No 300 8, acc. to IEC 60947-4-2
evaluation of thermistor motor protection     external reset     adjustable current limitation     inside-delta circuit     product component motor brake output     insulation voltage rated value     V     degree of pollution     reference code acc. to DIN EN 61346-2     C     reference code acc. to DIN 40719 extended according	/es /es No No 800 8, acc. to IEC 60947-4-2
external reset     adjustable current limitation     inside-delta circuit     roduct component motor brake output     insulation voltage rated value     V     degree of pollution     reference code acc. to DIN EN 61346-2     CQ reference code acc. to DIN 40719 extended according	Yes Yes No S00 8, acc. to IEC 60947-4-2
adjustable current limitation     inside-delta circuit     roduct component motor brake output     insulation voltage rated value     V     Ge     degree of pollution     reference code acc. to DIN EN 61346-2     CQ     reference code acc. to DIN 40719 extended according	Yes No No 300 8, acc. to IEC 60947-4-2
inside-delta circuit     N     product component motor brake output     insulation voltage rated value     V     66     degree of pollution     reference code acc. to DIN EN 61346-2     CQ     reference code acc. to DIN 40719 extended according	No No 300 8, acc. to IEC 60947-4-2
product component motor brake output       N         insulation voltage rated value       V       60         degree of pollution       33         reference code acc. to DIN EN 61346-2       Q         reference code acc. to DIN 40719 extended according       G	No 600 8, acc. to IEC 60947-4-2
insulation voltage rated value       V       66         degree of pollution       33         reference code acc. to DIN EN 61346-2       Q         reference code acc. to DIN 40719 extended according       G	800 8, acc. to IEC 60947-4-2
degree of pollution       3,         reference code acc. to DIN EN 61346-2       Q         reference code acc. to DIN 40719 extended according       G	3, acc. to IEC 60947-4-2
reference code acc. to DIN EN 61346-2       Q         reference code acc. to DIN 40719 extended according       G	,
reference code acc. to DIN 40719 extended according G	2
to IEC 204-2 acc. to IEC 750	3
Power Electronics	
product designation S	Soft starter
operational current	
at 40 °C rated value     A	06
at 50 °C rated value     A     99	98
at 60 °C rated value     A	00
yielded mechanical performance for 3-phase motors ● at 230 V	
<ul> <li>at standard circuit at 40 °C rated value</li> <li>at 400 V</li> </ul>	30 000
	55 000
yielded mechanical performance [hp] for 3-phase AC hp 30 motor at 200/208 V at standard circuit at 50 °C rated value	30
operating frequency rated value Hz 50	50 60
	10
relative positive tolerance of the operating frequency % 10	0
operating voltage at standard circuit rated value V 2	200 480
relative negative tolerance of the operating voltage at % -1 standard circuit	15
relative positive tolerance of the operating voltage at % 10	0

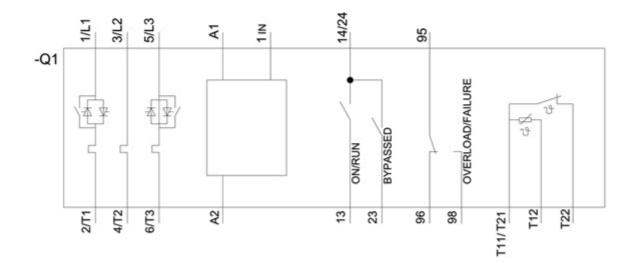
	_	
standard circuit		
minimum load [%]	%	20
adjustable motor current for motor overload protection minimum rated value	A	46
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	21
Control circuit/ Control		
type of voltage of 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		
<ul> <li>at 50 Hz rated value</li> </ul>	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	_	S3
width	mm	70
height	mm	170
depth	mm	190
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	-	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	-	
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point • solid		2x (2.5 16 mm²)
type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point		

type of connectable conductor cross-sections for main contacts for box terminal using the back	-			
clamping point		0		
• solid		2x (2.5 16 mm <sup>2</sup> )		
<ul> <li>finely stranded with core end processing</li> </ul>		2.5 50 mm <sup>2</sup>		
• stranded	-	10 70 mm²		
type of connectable conductor cross-sections for main contacts for box terminal using both clamping points				
• solid		2x (2.5 16 mm <sup>2</sup> )		
<ul> <li>finely stranded with core end processing</li> </ul>		2x (2.5 35 mm²)		
• stranded		2x (10 50 mm²)		
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal	-			
<ul> <li>using the back clamping point</li> </ul>		2x (10 1/0)		
<ul> <li>using the front clamping point</li> </ul>		2x (10 1/0)		
<ul> <li>using both clamping points</li> </ul>		10 2/0		
type of connectable conductor cross-sections for DIN cable lug for main contacts	-			
<ul> <li>finely stranded</li> </ul>		2 x (10 50 mm <sup>2</sup> )		
stranded		2x (10 70 mm²)		
type of connectable conductor cross-sections for auxiliary contacts	-			
• solid		2x (0.25 2.5 mm <sup>2</sup>	<sup>2</sup> )	
<ul> <li>finely stranded with core end processing</li> </ul>	_	2x (0.25 1.5 mm <sup>2</sup>	<sup>2</sup> )	
type of connectable conductor cross-sections at AWG cables				
<ul> <li>for main contacts</li> </ul>		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 acc. to IEC 60721</li> </ul>		2K2, 2C1, 2S1, 2M	2 (max. fall heig	ht 0.3 m)
• during storage acc. to IEC 60721		1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
• during operation acc. 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		
<ul> <li>during storage</li> </ul>	°C	-40 +80		
derating temperature	°C	40		
protection class IP on the front acc. to IEC 60529		IP20		
touch protection on the front acc. to IEC 60529		finger-safe, for verti	cal contact from	the front
Certificates/ approvals				
General Product Approval		EM	IC	For use in hazard- ous locations
			•	5
(F) (F)		EHL	Ø	⟨£x⟩
CSA CCC UL			RCM	ATEX
Declaration of Conformity Test Certificates	Mar	ine / Shipping		
Miscellaneous <u>Type Test Certific-</u> <u>Special Test C</u>	ertific-	Llovds		Annone M
ates/Test Report ate		LTS S.LTS	1 AU 1	
		register	C 288.7	DNV-GL
			PRS	DNV-GL

other	Railway
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Confirmation Vibration and Shock

UL/CSA ratings			
yielded mechanical performance [hp] for 3-phase AC			
motor ● at 220/230 V			
<ul> <li>at 220/250 v</li> <li>at standard circuit at 50 °C rated value</li> </ul>	hp	30	
• at 460/480 V	пр	50	
	hn	76	
	hp	75 B300 / R300	
		B3007 R300	
Further information			
Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494	<b>1</b> 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/produ	ct?mlfb=3RW4	<u>047-2TB04</u>	
Cax online generator			
http://support.automation.siemens.com/WW/CAXorder/defa Service&Support (Manuals, Certificates, Characteristics		en&mitD=3RW4047-21B04	
https://support.industry.siemens.com/cs/ww/en/ps/3RW404			
Image database (product images, 2D dimension drawing		device circuit diagrams. EP	PLAN macros)
http://www.automation.siemens.com/bilddb/cax_de.aspx?m			
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