SIEMENS

Data sheet

3RW3017-1BB04



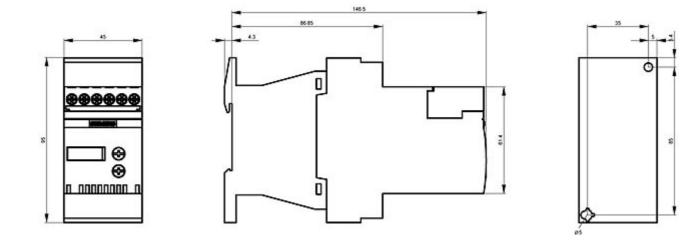
SIRIUS soft starter S00 12.5 A, 5.5 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC Screw terminals

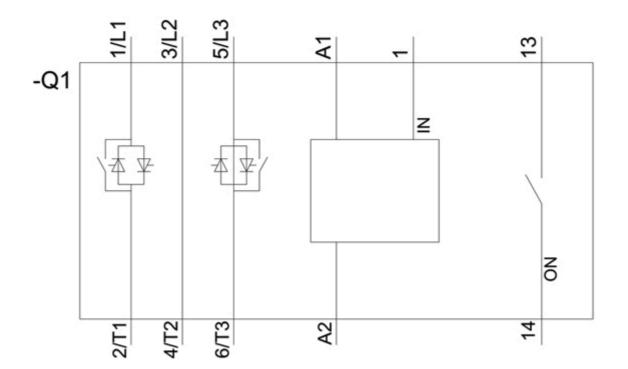
product brand name SIRIUS product feature • • integrade bypass contact system Yes • thyristors Yes product function No • intrinsic device protection No • evaluation of thermistor motor brake output No insulation voltage rated value V product designation 3, acc. to IEC 60947-4-2 reference code acc. to DIN EN 61346-2 Q reference code acc. to DIN 40719 extended according G toE 2 04-2 acc. to IEC 750 Power Electronics product designation Soft starter operational current A 12.5 • at 60 °C rated value A 12 • at 60 °C rated value A 12 • at 20 °C v - - - at standard circuit at 40 °C rated value W 5 500	General technical data		
• integrated bypass contact system Yes • thyristors Yes product function Yes product function No • intrinsic device protection No • evaluation of thermistor motor protection No • evaluation of thermistor motor protection No • external reset No • adjustable current limitation No • inside-delta circuit No product component motor brake output No insulation voltage rated value V preference code acc. to DIN EN 61346-2 Q reference code acc. to DIN 40719 extended according G totic 2 04-2 acc. to IEC 750 G Power Electronics G product designation Soft starter operational current A • at 60 °C rated value A • at 50 °C rated value A • at 30 °C rated value • at 30 °U	product brand name		SIRIUS
• thyristors Yes product function No • intrinsic device protection No • evaluation of thermistor motor protection No • external reset No • adjustable current limitation No • inside-delta circuit No product component motor brake output No insulation voltage rated value V degree of pollution 3, acc. to IEC 60947-4-2 reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Q Power Electronics G product designation Soft starter operational current A • at 40 °C rated value A • at 50 °C rated value A • at 60 °C rated value A • at 20 °C Cated value • at 400 °C rated value A • at 400 °C rated value Y • at 200208 V at standard circuit at 40 °C rated value W yielded mechanical performance [rb] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value Mp operating frequency rated value Hp 3 value Operating frequency	product feature	-	
product function initinisic device protection motor overload protection evaluation of thermistor motor protection evaluation of thermistor motor protection external reset adjustable current limitation inside-delta circuit product component motor brake output insulation voltage rated value V 600 degree of pollution a, acc. to DIN EN 61346-2 Q reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Power Electronics product designation soft starter operational current at 40 °C rated value A 12.5 at 230 V at standard circuit at 40 °C rated value wielded mechanical performance for 3-phase motors at 230 V at atol v at atondard circuit at 40 °C rated value W 3 000 at 400 V at 400 V at atondard circuit at 4	 integrated bypass contact system 		Yes
• Intrinsic device protection No • motor overload protection No • evaluation of thermistor motor protection No • evaluation of thermistor motor protection No • external reset No • adjustable current limitation No • inside-delta circuit No product component motor brake output No Insulation voltage rated value V degree of pollution 3, acc. to IEC 60947-4-2 reference code acc. to DIN EN 61346-2 Q reference code acc. to DIN N 61346-2 Q reference code acc. to DIN 40719 extended according G DEC 204-2 acc. to IEC 750 Forwor Electronics Product designation Soft starter operational current 4 40 °C rated value • at 40 °C rated value A 12 • at 230 V - 11 yielded mechanical performance for 3-phase motors - • at 230 V - - - at standard circuit at 40 °C rated value W 3 000 • at 400 V - -	thyristors		Yes
motor overload protection evaluation of thermistor motor protection external reset adjustable current limitation einside-delta circuit No inside-delta circuit No inside-delta circuit No inside-delta circuit No inside-delta circuit No insulation voltage rated value V 600 degree of pollution reference code acc. to DIN EN 61346-2 reference code acc. to DIN EN 61346-2 reference code acc. to DIN N 0119 extended according to EC 204-2 acc. to IEC 750 Power Electronics product designation operational current e at 40 °C rated value A 12.5 e at 50 °C rated value A 12 i at 60 °C rated value A 12 i at 30 °C rated value A 11 yielded mechanical performance for 3-phase motors e at 230 V — at standard circuit at 40 °C rated value W 3 000 i at 200208 V at standard circuit at 50 °C rated value operating frequency rated value Hz 50 60 relative negative tolerance of the operating frequency % 10 operating voltage at standard circuit rated value V 200 480	product function		
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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 G product designation Soft starter operational current A • at 40 °C rated value A • at 50 °C rated value A • at 230 V - - at standard circuit at 40 °C rated value W • at 400 V - - at standard circuit at 40 °C rated value W • at 200 V - - at standard circuit at 40 °C rated value W • at 200 V - - at standard circuit at 40 °C rated value W yielded mechanical performance [hp] for 3-phase AC hp motor at 200/208 V at standard circuit at 50 °C rated hp goperating frequency rated value Hz 50 60 relative negative tolerance of the operating frequency % -10 relative negative tolerance of the operating frequency % 10 operating voltage at standard circuit	 inside-delta circuit 		No
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 G product designation Soft starter operational current A • at 40 °C rated value A • at 50 °C rated value A • at 60 °C rated value A • at 230 V A - at standard circuit at 40 °C rated value W • at 400 V Soft starter - at standard circuit at 40 °C rated value W • at 230 V - at standard circuit at 40 °C rated value • at 200 V - at standard circuit at 40 °C rated value • at 200/208 V at standard circuit at 50 °C rated value W yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value hp goperating frequency rated value Hz 50 60 relative negative tolerance of the operating frequency % 10 operating voltage at standard circuit rated value V 200 480 relative negative tolerance of the operating frequency % -15	product component motor brake output		No
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reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 Power Electronics product designation operational current • at 40 °C rated value • at 50 °C rated value • at 60 °C rated value • at 20 °C rated value • at 200 °V — at standard circuit at 40 °C rated value • at 400 °V — at standard circuit at 40 °C rated value • at 400 °V — at standard circuit at 40 °C rated value • at 400 °V — at standard circuit at 40 °C rated value • at 400 °V — at standard circuit at 40 °C rated value • at 400 °V — at standard circuit at 40 °C rated value • at 400 °V — at standard circuit at 50 °C rated value • operating frequency rated value • tat value • operating frequency of the operating frequency • atstandard circuit rated value • tative negative tolerance of the operating frequency • atstandard circuit rated value • tative negative tolerance of the operating frequency • atstandard circuit rated value • tative negative tolerance of the operating frequency • atstandard circuit rated value • atstandard circuit rated value • tative negative tolerance of the operating frequency • atstandard circuit rated value • atstandard circuit rated	degree of pollution	-	3, acc. to IEC 60947-4-2
to IEC 204-2 acc. to IEC 750 Power Electronics product designation Soft starter operational current A 12.5 • at 40 °C rated value A 12 • at 50 °C rated value A 11 yielded mechanical performance for 3-phase motors A 11 • at 230 V	reference code acc. to DIN EN 61346-2		Q
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 at 230 V at standard circuit at 40 °C rated value at 400 V 	• at 60 °C rated value	А	11
— at standard circuit at 40 °C rated valueW3 000• at 400 V— at standard circuit at 40 °C rated valueW5 500yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated valuehp3operating frequency rated valueHz50 60relative negative tolerance of the operating frequency%-10relative positive tolerance of the operating frequency%10operating voltage at standard circuit rated valueV200 480relative negative tolerance of the operating voltage at%-15	yielded mechanical performance for 3-phase motors		
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yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated valuehp3operating frequency rated valueHz50 60relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency%-10relative positive tolerance of the operating frequency relative negative tolerance of the operating frequency%10operating voltage at standard circuit rated valueV200 480relative negative tolerance of the operating voltage at%-15	• at 400 V		
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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 % -15	motor at 200/208 V at standard circuit at 50 °C rated	hp	3
relative positive tolerance of the operating frequency%10operating voltage at standard circuit rated valueV200 480relative negative tolerance of the operating voltage at%-15	operating frequency rated value	Hz	50 60
operating voltage at standard circuit rated value V 200 480 relative negative tolerance of the operating voltage at % -15	relative negative tolerance of the operating frequency	%	-10
relative negative tolerance of the operating voltage at % -15	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 % 10	relative positive tolerance of the operating voltage at	%	10

standard circuit	_	
minimum load [%]	%	10
continuous operating current [% of le] at 40 °C	%	115
power loss [W] at operational current at 40 °C during operation typical	W	2
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		S00
width	mm	45
height	mm	95
depth	mm	150
fastening method	_	screw and snap-on mounting
mounting position		With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° tiltable to the front and back
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 		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		1
number of CO contacts for auxiliary contacts		0
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)
 finely stranded with core end processing 	_	2x (1 2.5 mm²), 2x (2.5 6 mm²)
type of connectable conductor cross-sections at AWG cables for main contacts for box terminal		
using the front clamping point		2x (16 10)
type of connectable conductor cross-sections for auxiliary contacts		

 solid 				2x (0.25 2	.5 mm²)		
 finely stranded 	with core end processir	ng		2x (0.25 1	.5 mm²)		
type of connectable cables	conductor cross-sect	tions at AWG					
 for auxiliary cor 	ntacts			2x (20 14)			
 for auxiliary con processing 	ntacts finely stranded wi	ith core end		2x (20 16)			
Ambient conditions							
installation altitude	at height above sea le	vel	m	5 000			
environmental categ	gory						
 during transpor 	rt acc. to IEC 60721			2K2, 2C1, 2S	S1, 2M2 (max. fall he	ight 0.3 m)	
 during storage 	acc. to IEC 60721				casional condensation ust not get inside the	on), 1C2 (no salt mist), e devices), 1M4	
 during operatio 	n acc. to IEC 60721				ation of ice, no cond and must not get into	lensation), 3C3 (no salt o the devices), 3M6	
ambient temperatur	.e						
 during operatio 	n		°C	-25 +60			
 during storage 			°C	-40 +80	-40 +80		
derating temperatur	re		°C	40			
protection class IP	on the front acc. to IEC	C 60529		IP20			
touch protection on	touch protection on the front acc. to IEC 60529			finger-safe, f	finger-safe, for vertical contact from the front		
Certificates/ approval	ls						
General Product Ap	oproval				EMC	Declaration of Conformity	
	~	•			•		
(SP.	(\mathbf{x})	(Ų)		FAL	<i>I</i> ⊗∕	CE	
CSA	222	UL		LIIL	RCM	EG-Konf.	
Declaration of Conformity	Test Certificates	other					
Miscellaneous	Type Test Certific- ates/Test Report	<u>Miscellaneo</u>	<u>us</u>	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	3			
• at 460/480 V					
— at standard circuit at 50 °C rated value	hp	7.5			
contact rating of auxiliary contacts according to UL B300 / R300					
Further information					
Simulation Tool for Soft Starters (STS) <u>https://support.industry.siemens.com/cs/ww/en/view/101494917</u> 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=3RW3017-1BB04					
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3017-1BB04					
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW3017-1BB04					
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3017-1BB04⟨=en					





last modified:

12/15/2020 🖸