SIEMENS

Product data sheet

3RW3017-1BB04



SIRIUS SOFT STARTER, SIZE S00, 12.5A, 5.5KW/400V, 40 DEGREES, 200-480V AC, 24V AC/DC, SCREW TERMINALS

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General details:				
product brand name	SIRIUS			
Product equipment				
 integrated bridging contact system 	Yes			
• thyristors	Yes			
Product function				
intrinsic device protection	No			
motor overload protection	No			
 evaluation of thermal resistor motor protection 	No			
reset external	No			
adjustable current limitation	No			
inside-delta circuit	No			
Product component / outlet for enine brake	No			
Item designation				
according to DIN EN 61346-2	Q			
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 	G			
Power Electronics:				
product designation soft starters for standard applications				

Operating current

• at 40 °C / rated value	А	12.5
• at 50 °C / rated value	А	12
• at 60 °C / rated value	А	11
Emitted mechanical power / for three-phase servomotors		
 at 230 V / at standard switching / at 40 °C 		
rated value	W	3,000
• at 400 V / at standard switching / at 40 °C		
rated value	W	5,500
yielded mechanical performance (hp) / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 °C / rated v alue	hp	3
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 / with standard circuit / rated value	V	200 480
Relative negative tolerance / of the operating voltage / with standard circuit	%	-15
Relative positive tolerance / of the operating voltage / with standard circuit	%	10
Minimum load in % of I_M	%	10
Continuous operating current in % of I_e / at 40°C	%	115
Active power loss / at operating current / at 40°C / during operating phase / typical	W	2
Control electronics:		
Type of voltage / of the controlled 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 50 Hz / for AC	V	24
• at 60 Hz / for AC	V	24
Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC	%	-20
Relative positive tolerance / of the control supply voltage / at 60	%	20

Hz / for AC

DC

Control supply voltage / 1 / for DC / rated value

Relative negative tolerance / of the control supply voltage / for

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%

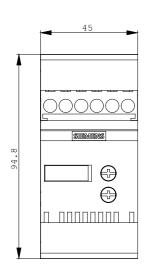
24

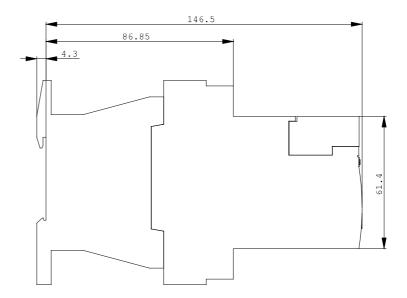
-20

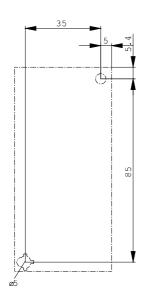
DC Image: Control device red Machanical design: S00 Width mm 45 Height mm 95 Depth mm 150 Depth mm 150 mounting position mm 60 *upwards mm 5.000 Installation altitude / at a height over sea level m 3.00 Cable length / maximum 0 0 0 Number of poles / for main current circuit screw-type terminals screw-type terminals *of main current circuit screw-type terminals 1			
Machanical design: Size of the engine control device S00 Width mm 45 Height mm 95 Depth mm 150 Type of mounting screw and snap-on mounting surface 4/-10° rotatable, with mounting position With vertical mounting surface 4/-10° rotatable, with vipwards mm 60 • upwards mm 60 • sidewards mm 15 • downwards mm 40 Installation altitude / at a height over sea level m 5,000 Cable lengh / maximum m 300 100 Number of poles / for main current circuit 3 100 Iteration altitude / at a height over sea level m 5,000 100 Cable lengh / maximum m 300 100 100 Number of poles / for main current circuit screw-type terminals 100 100 100 100 100 100 100 100 100 100 100 100 100 100<	Relative positive tolerance / of the control supply voltage / for DC	%	20
Size of the engine control device S00 Width mm 45 Height mm 95 Depth mm 150 strew and snap-on mounting mounting position screw and snap-on mounting writcal mounting surface 4/-10° triatable, with vertical mounting surface 4/-10° triatable, with surface 10 for auxiliary cortacts mm Electrical connection 0 screw-type terminals screw-type terminals vertical connectable conductor cross-section 1/or auxiliary contacts 0 screw-type terminals vertical connectable conductor cross-section 1/or AWG conductors / for main contacts / for bx terminal vertical surface 4/-10° triatable, with conductor end processing zx (1 2.5 mm ²), zx (Type of display / for fault signal		red
withnm45Heightnm95Depthnm150Type of mountingscrew and snap-on mountingmounting positionWith vertical mounting surface +/10° totatable, with vertical mounting surface	Mechanical design:		
Number Play HeightImage PPHeightmm95Depthmm150Type of mounting mounting positionVith vertical mounting surface +r10° rotatable, with vertical mounting surface +r10° rotatable, with and backObservermm60• dewardsmm500• dewardsmm5000• detailation attitude / at a height over sea levelm5000Installation attitude / at a height over sea levelm5000• belie of plots / for main current circuitm5000• loor main current circuitm5000• loor and current circuitscrew-type terminals screw-type terminals• loor and current circuitscrew-type terminals• loor and current circuitiscrew-type terminals• loor anterior of nonactor / for auxiliary contacts2x (1 25 mm2), 2x (25 6 mm2)• soli	Size of the engine control device		\$00
Depthnm150Type of mountingscrew and snap-on mountingmounting positionWith vertical mounting surface 4/-10° rotatable, with vertical mounting surface 4/-10° rotatable, with surface 4/-10° rotatable, and 1Policie Indev Surface Indev Indev vertical connectable conductor rotaces-section / for main contacts / for box terminal vertical surface 4/-10° rotaces-section / for main contacts / for hox terminal vertical mounting surface 4/-10° rotaces-section vertical mounting surface 4/-10° rotaces-section vertical mounting surface 4/-10° rotaces-section vertical mounting surface 4/-10° rotaces-section / for main contacts / for box terminal vertical mounting surface 4/-10° rot	Width	mm	45
Type of mounting screw and snap-on mounting mounting position With vertical mounting surface +/-10° totatable, with vertical mounting surface +/- 10° tittable to the front and back Distance, to be maintained, to the ranks assembly mm •upwards mm •upwards mm •downwards mm 15 downwards installation altitude / at a height over sea level m 60 screw-type terminals cable length / maximum m Number of poles / for main current circuit m • for auxiliary and control current circuit screw-type terminals • for auxiliary and control current circuit screw-type terminals • for auxiliary contacts 0 Number of NC contacts / for auxiliary contacts 0 Vine of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point screw-type terminals • solid 2x (125 mm²), 2x (2.56 mm²) • finely stranded / with conductor end processing 2x (1610) Type of the connectable conductor cross-section / for AWG conductors / for auxiliary contacts 2x (0.515 mm²) • for auxiliar	Height	mm	95
mounting positionWith vertical mounting surface +/-10° rotatable, with vertical mounting surface +/-10° tittable to the front and backDistance, to be maintained, to the ranks assemblyImage: Surface +/-10° tittable to the front and back• upwardsmm60• sidewardsmm15• downwardsmm40Installation altitude / at a height over sea levelm5,000Cable length / maximumm300Number of poles / for main current circuitm300Electrical connections:screw-type terminalsVortanti current circuitscrew-type terminals• for main current circuitscrew-type terminals• for auxiliary and control current circuit0• for auxiliary contacts0Number of NC contacts / for auxiliary contacts0Vipe of the connectable conductor cross-section / for main contacts / for box terminal2x (125 mm²), 2x (2.56 mm²)• solid2x (125 mm²), 2x (2.56 mm²)• when using the front clamping point-• solid2x (125 mm²), 2x (2.56 mm²)• finely stranded / with conductor end processing2x (1610)Type of the connectable conductor cross-section / for AWG conductors / for auxiliary contacts-• for auxiliary contacts2x (0.525 mm²)• for auxiliary contacts2x (0.515 mm²)	Depth	mm	150
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· sidewardsmm15. downwardsmm40Installation altitude / at a height over sea levelm5.000Cable length / maximumm300Number of poles / for main current circuitm30Electrical connections:screw-type terminals. for main current circuitscrew-type terminals. for auxiliary and control current circuit1. for auxiliary contacts / for auxiliary contacts0Number of NC contacts / for auxiliary contacts0. for dusc / for auxiliary contacts0. for dusc / for auxiliary contacts2. for dusc / for box terminal / when using the front circuit2×(12.5 mm?), 2×(2.56 mm?). solid2×(1610). when using the front c2×(0.52.5 mm?). for duscliary contacts2×(0.52.5 mm?). inely stranded / with conductor rend processing2×(0.52.5 mm?). when using the front c2×(0.52.5 mm?). solid2×(0.51.5 mm?). inely stranded / with conductor end processing2×(0.51.5 mm?). inely stranded / with conductor end processing2×(0.51.5 mm?)	Distance, to be maintained, to the ranks assembly		
• downwardsmm40Installation altitude / at a height over sea levelm5.000Cable length / maximumm300Number of poles / for main current circuitm3Electrical connections:screw-type terminals• for main current circuitscrew-type terminals• for auxiliary and control current circuitscrew-type terminals• for auxiliary and control current circuit0Number of NC contacts / for auxiliary contacts0Number of NC contacts / for auxiliary contacts0Number of hange-over switches / for auxiliary contacts0Vipe of the connectable conductor cross-section / for main contacts / for box terminal0• solid2x (1 2.5 mm2), 2x (2.5 6 mm2) 2x (1.5 2.5 mm2), 2x (2.5 6 mm2) 2x (1.5 2.5 mm2), 2x (2.5 6 mm2)• yee of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal2x (16 10)• when using the front c2x (0.5 2.5 mm²), 2x (2.5 6 mm²)• for auxiliary contactsscr (0.5 2.5 mm²) 2x (2.5 6 mm²)• for auxiliary contactsx (0.5 2.5 mm²) 2x (2.5 6 mm²)• for auxiliary contactsx (0.5 2.5 mm²) 2x (2.5 6 mm²)• for auxiliary contactsx (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contactsx (0.5 1.5 mm²) 2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contactsx (0.5 1.5 mm²) 2x (0.5 1.5 mm²)• for AWG conductors / for au	• upwards	mm	60
Installation altitude / at a height over sea level m 5,000 Cable length / maximum m 300 Number of poles / for main current circuit a Electrical connections: screw-type terminals • for main current circuit screw-type terminals • for auxiliary and control current circuit screw-type terminals • for auxiliary and control current circuit 0 Number of NC contacts / for auxiliary contacts 0 Number of hange-over switches / for auxiliary contacts 0 Number of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point of solid 2x (1 2.5 mm ²), 2x (2.5 6 mm ²) • solid 2x (16 10) • when using the front c 2x (0.5 2.5 mm ²) • for auxiliary contacts 2x (0.5 2.5 mm ²) • for auxiliary contacts 2x (0.5 2.5 mm ²)	• sidewards	mm	15
Cable length / maximumm300Number of poles / for main current circuit3Electrical connections:Design of the electrical connection • for main current circuitscrew-type terminals screw-type terminals• for auxiliary and control current circuit0Number of NC contacts / for auxiliary contacts0Number of NC contacts / for auxiliary contacts0Number of NC contacts / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0Ype of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point • solid2x (1 2.5 mm2), 2x (2.5 6 mm2)Ype of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal2x (16 10)Type of the connectable conductor cross-section2x (0.5 2.5 mm²)• when using the front c2x (0.5 2.5 mm²)• for auxiliary contacts2x (0.5 2.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contacts2x (0.5 1.5 mm²)	downwards	mm	40
Number of poles / for main current circuit3Electrical connections:Design of the electrical connection • for main current circuitscrew-type terminals screw-type terminals• for auxiliary and control current circuitscrew-type terminals• for auxiliary and control current circuit0Number of NC contacts / for auxiliary contacts0Number of NO contacts / for auxiliary contacts0Number of ho contacts / for auxiliary contacts0Number of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point • solid2x (1 2.5 mm2), 2x (2.5 6 mm2)• solid2x (1.5 2.5 mm2), 2x (2.5 6 mm2)• tinely stranded / with conductor end processing2x (16 10)Type of the connectable conductor cross-section • for auxiliary contacts2x (0.5 2.5 mm²)• when using the front c2x (0.5 2.5 mm²)• when using the front c2x (0.5 1.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contacts2x (0.5 1.5 mm²)• for AWG conductor / for auxiliary contacts2x (0.5 1.5 mm²)	Installation altitude / at a height over sea level	m	5,000
Electrical connections: Design of the electrical connection • for main current circuit • for auxiliary and control current circuit Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Number of the connectable conductor cross-section / for main contacts / for box terminal • finely stranded / with conductor end processing • tor auxiliary contacts • for auxiliary contacts • finely stranded / with conductor end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts / for auxiliary contacts • for auxiliary contacts / for box terminal • solid • solid • when using the front c Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal • when using the front c Type of the connectable conductor cross-section • for auxiliary contacts • solid • solid • solid • finely stranded / with conductor end processing • for auxiliary contacts • f	Cable length / maximum	m	300
Design of the electrical connectionImage: screw-type terminals• for main current circuitscrew-type terminals• for auxiliary and control current circuit0Number of NC contacts / for auxiliary contacts0Number of NO contacts / for auxiliary contacts1Number of NO contacts / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0Ype of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point • solid2x (1 2.5 mm2), 2x (2.5 6 mm2)• finely stranded / with conductor end processing2x (16 10)Type of the connectable conductor cross-section • for auxiliary contacts2x (0.5 2.5 mm²)• when using the front c2x (0.5 2.5 mm²)Type of the connectable conductor cross-section • for auxiliary contacts2x (0.5 2.5 mm²)• when using the front c2x (16 10)Type of the connectable conductor cross-section • for auxiliary contacts2x (0.5 2.5 mm²)• finely stranded / with conductor end processing2x (0.5 2.5 mm²)• solid2x (0.5 2.5 mm²)• finely stranded / with conductor end processing2x (0.5 1.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contacts2x (20 14)	Number of poles / for main current circuit		3
• for main current circuitscrew-type terminals• for auxiliary and control current circuitscrew-type terminalsNumber of NC contacts / for auxiliary contacts0Number of NO contacts / for auxiliary contacts1Number of change-over switches / for auxiliary contacts0Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point0• solid2x (1 2.5 mm2), 2x (2.5 6 mm2)• solid2x (1 2.5 mm2), 2x (2.5 6 mm2)• when using the front c2x (16 10)Type of the connectable conductor cross-section2x (16 10)Type of the connectable conductor end processing2x (0.5 2.5 mm²)• when using the front c2x (0.5 2.5 mm²)• solid2x (0.5 2.5 mm²)• solid2x (0.5 1.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contacts2x (0.5 1.5 mm²)	Electrical connections:		
• for auxiliary and control current circuitscrew-type terminalsNumber of NC contacts / for auxiliary contacts0Number of NC contacts / for auxiliary contacts1Number of NC contacts / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point0• solid2x (1 2.5 mm2), 2x (2.5 6 mm2) 2x (1.5 2.5 mm2), 2x (2.5 6 mm2)• finely stranded / with conductor end processing2x (1 6 10)Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal2x (1 6 10)Type of the connectable conductor cross-section2x (1 6 10)Type of the connectable conductor end processing2x (0.5 2.5 mm2)• solid2x (0.5 2.5 mm2)• solid2x (0.5 2.5 mm2)• for auxiliary contacts2x (0.5 1.5 mm2)• solid2x (0.5 1.5 mm2)• finely stranded / with conductor end processing2x (0.5 1.5 mm2)• for AWG conductors / for auxiliary contacts2x (0.5 1.4)	Design of the electrical connection		
Number of NC contacts / for auxiliary contacts0Number of NO contacts / for auxiliary contacts1Number of NO contacts / for auxiliary contacts0Number of change-over switches / for auxiliary contacts0Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point0• solid2x (1 2.5 mm2), 2x (2.5 6 mm2)• finely stranded / with conductor end processing2x (1 2.5 mm2), 2x (2.5 6 mm2)Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal2x (16 10)Type of the connectable conductor cross-section2x (16 10)Type of the connectable conductor cross-section2x (0.5 2.5 mm²)• when using the front c2x (0.5 2.5 mm²)Type of the connectable conductor cross-section2x (0.5 1.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²)• solid2x (0.5 1.5 mm²)• finely stranded / with conductor end processing2x (0.5 1.5 mm²)• finely stranded / with conductor end processing2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contacts2x (0.5 1.4)	for main current circuit		screw-type terminals
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Number of change-over switches / for auxiliary contacts0Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point2x (1 2.5 mm2), 2x (2.5 6 mm2)• solid2x (1 2.5 mm2), 2x (2.5 6 mm2)• finely stranded / with conductor end processing2x (1.5 2.5 mm2), 2x (2.5 6 mm2)Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal2x (16 10)Type of the connectable conductor cross-section2x (0.5 2.5 mm2)• when using the front c2x (0.5 2.5 mm2)• solid2x (0.5 2.5 mm2)• for auxiliary contacts2x (0.5 1.5 mm2)• solid2x (0.5 1.5 mm2)• finely stranded / with conductor end processing2x (0.5 1.5 mm2)• finely stranded / with conductor end processing2x (0.5 1.5 mm2)• for AWG conductors / for auxiliary contacts2x (20 14)	Number of NC contacts / for auxiliary contacts		0
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contacts / for box terminal / when using the front clamping point2x (1 2.5 mm2), 2x (2.5 6 mm2)• solid2x (1 2.5 mm2), 2x (2.5 6 mm2)• finely stranded / with conductor end processing2x (1.5 2.5 mm2), 2x (2.5 6 mm2)Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal2x (16 10)Type of the connectable conductor cross-section2x (0.5 2.5 mm2)• when using the front c2x (0.5 2.5 mm2)type of the connectable conductor cross-section2x (0.5 2.5 mm2)• for auxiliary contacts2x (0.5 2.5 mm2)• finely stranded / with conductor end processing2x (0.5 1.5 mm2)• for AWG conductors / for auxiliary contacts2x (20 14)	Number of change-over switches / for auxiliary contacts		0
• finely stranded / with conductor end processing $2x (1.5 2.5 mm^2), 2x (2.5 6 mm^2)$ Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal • when using the front c $2x (16 10)$ Type of the connectable conductor cross-section • for auxiliary contacts • solid • finely stranded / with conductor end processing • for AWG conductors / for auxiliary contacts $2x (0.5 2.5 mm^2)$ $2x (0.5 1.5 mm^2)$ $2x (0.5 1.5 mm^2)$ $2x (20 14)$	Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the front clamping point		
Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal2x (16 10)• when using the front c2x (16 10)Type of the connectable conductor cross-section2x (0.5 10)• for auxiliary contacts2x (0.5 2.5 mm²)• finely stranded / with conductor end processing2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contacts2x (20 14)	• solid		2x (1 2.5 mm2), 2x (2.5 6 mm2)
conductors / for main contacts / for box terminalImage: solid set of the connectable conductor cross-section2x (16 10)Type of the connectable conductor cross-sectionImage: solid set of the conductor cross-sectionImage: solid set of the conductor cross-section• for auxiliary contacts2x (0.5 2.5 mm²)• solid set of the conductor end processing2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contacts2x (20 14)	 finely stranded / with conductor end processing 		2x (1.5 2.5 mm²), 2x (2.5 6 mm²)
Type of the connectable conductor cross-section • for auxiliary contacts • for auxiliary contacts 2x (0.5 2.5 mm²) • finely stranded / with conductor end processing 2x (0.5 1.5 mm²) • for AWG conductors / for auxiliary contacts 2x (20 14)	Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal		
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• solid2x (0.5 2.5 mm²)• finely stranded / with conductor end processing2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contacts2x (20 14)	Type of the connectable conductor cross-section		
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• for AWG conductors / for auxiliary contacts 2x (20 14)	• solid		2x (0.5 2.5 mm²)
	 finely stranded / with conductor end processing 		2x (0.5 1.5 mm²)
• finely stranded / with wire end proc 2x (20 16)			
	 for AWG conductors / for auxiliary contacts 		2x (20 14)

Ambient conditions:

Ambient temperature				
during operating	°C	-25 +60		
during storage	°C	-40 +80		
Derating temperature	°C	40		
Protection class IP		IP20		
Certificates/approvals:				
General Product Approval		EMC	Test Certificates	
		Стіск	<u>Type Test</u> Certificates/Test Report	
other				
Declaration of ConformityotherEnvironmental Confirmations				
UL/CSA ratings				
yielded mechanical performance (hp) / for three-phase squirrel cage motors				
• at 220/230 V / at standard circuit				
• at 50 °C / rated v alue	hp	3		
• at 460/480 V / at standard circuit				
• at 50 °C / rated v alue	hp	7.5		
Contact rating designation / for auxiliary contacts / according to UL		B300 / R300		
Further information:				
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs				
Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall				
CAx-Online-Generator http://www.siemens.com/cax				
Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.automation.siemens.com/WW/view/en/3RW3017-1BB04/all				
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW3017-1BB04				







last change:

Feb 7, 2013