## SIEMENS

## Data sheet

## 3RW4047-2BB14



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40  $^{\circ}\text{C}$  200-480 V AC, 110-230 V AC/DC spring-type terminals

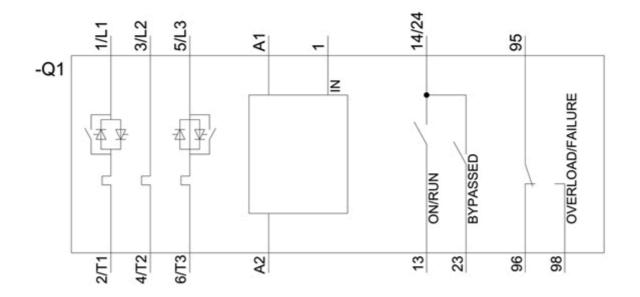
product brand name         SIRIUS           product feature         •           • integrated bypass contact system         Yes           • intrinsic device protection         Yes           • motor overload protection         Yes           • evaluation of thermistor motor protection         No           • external reset         Yes           • adjustable current limitation         Yes           • inside-defla 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 IDN EN 61346-2         Q           reference code acc. to DIN EN 61346-2         Q           reference code acc. to IDN EN 61346-2         Q           reference code acc. to IDN EN 61346-2         Q           reference code acc. to IDN EN 61346-2         Q           reference code acc. to IEC 750         G           product designation         Soft starter           operational current         A         106           • at 40 °C rated value         A         98           • at 50 °C rated value         A         90	General technical data		
• integrated bypass contact system       Yes         • thyristors       Yes         product function       Yes         • initrinsic device protection       Yes         • evaluation of thermistor motor protection       No         • external reset       Yes         • adjustable current limitation       Yes         • inside-delta circuit       No         product component motor brake output       No         insulation voltage rated value       V         600       doggee of pollution         1nsulation voltage rated value       Q         reference code acc. to DIN EN 61346-2       Q         reference code acc. to IEX 61947-4-2       Q         product designation       Soft starter         operational current       A       106         • at 40 °C rated value       A       98         • at 50 °C rated value       A       90         yielded mechanical performance for 3-phase motors       • at 200 V       -         - at standard circuit at 40 °C rated value       W       30 000 <tr< td=""><td>product brand name</td><td></td><td>SIRIUS</td></tr<>	product brand name		SIRIUS
• thyristors       Yes         product function       Yes         • intrinsic device protection       Yes         • motor overload protection       Yes         • evaluation of thermistor motor protection       No         • external reset       Yes         • adjustable current limitation       Yes         • 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 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       98         • at 40 °C rated value       A       90         yielded mechanical performance for 3-phase motors       at 40 °C rated value       A         • at 230 V       -       -       at standard circuit at 40 °C rated value       M         yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value       M       30       30         yielded me	product feature		
product function     Yes       intrinsic device protection     Yes       external reset     Yes       adjustable current limitation     Yes       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 40719 extended according to IEC 204-2 acc. to IEC 750     G       Power Electronics     product designation       operational current     A     106       • at 40 °C rated value     A     98       • at 60 °C rated value     A     90       yielded mechanical performance for 3-phase motors     •     41 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     W     30 000       • at 400 V     —     -     at standard circuit at 40 °C rated value     W     30 000       • at 200/208 V at standard circuit at 50 °C rated value     W     55 000     55 000       yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value </td <td><ul> <li>integrated bypass contact system</li> </ul></td> <td></td> <td>Yes</td>	<ul> <li>integrated bypass contact system</li> </ul>		Yes
• intrinsic device protection       Yes         • motor overload protection       No         • evaluation of thermistor motor protection       No         • evaluation of thermistor motor protection       No         • external reset       Yes         • adjustable current limitation       Yes         • 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 40719 extended according to IEC 204-2 acc. to IEC 750       G         Power Electronics       product designation       Soft starter         operational current       A       106         • at 40 °C rated value       A       98         • at 60 °C rated value       A       90         yielded mechanical performance for 3-phase motors       •       at 40 °C rated value         • at 200 V       —       -       at standard circuit at 40 °C rated value         yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value       W       30 000         • at 200/208 V at standard circuit at 50 °C rated value       Hz       50 60<	thyristors		Yes
<ul> <li>motor overload protection</li> <li>evaluation of thermistor motor protection</li> <li>external reset</li> <li>adjustable current limitation</li> <li>inside-delta circuit</li> <li>product component motor brake output</li> <li>insulation voltage rated value</li> <li>degree of pollution</li> <li>reference code acc. to DIN EN 61346-2</li> <li>qq</li> <li>reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750</li> <li>Power Electronics</li> <li>product designation</li> <li>operational current</li> <li>at 40 °C rated value</li> <li>A 106</li> <li>at 50 °C rated value</li> <li>A 98</li> <li>at 60 °C rated value</li> <li>A 90</li> <li>yielded mechanical performance for 3-phase motors</li> <li>at 230 V</li> <li>— at standard circuit at 40 °C rated value</li> <li>W 30 000</li> <li>w 30 000</li> <li>w 4400 V</li> <li>— at standard circuit at 40 °C rated value</li> <li>W 55 000</li> <li>yielded mechanical performance [tnp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value</li> <li>operating frequency rated value</li> <li>Hz 50 60</li> <li>relative negative tolerance of the operating frequency</li> <li>frequency</li> </ul>	product function		
• evaluation of thermistor motor protection       No         • external reset       Yes         • adjustable current limitation       Yes         • 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 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 60 °C rated value       A         • at 30 V	<ul> <li>intrinsic device protection</li> </ul>		Yes
• external resetYes• adjustable current limitationYes• inside-delta circuitNoproduct component motor brake outputNoinsulation voltage rated valueVdegree of pollution3, acc. to IEC 60947-4-2reference code acc. to DIN EN 61346-2Qreference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750GPower ElectronicsSoft starteroperational currentA• at 40 °C rated valueA• at 60 °C rated valueA• at 60 °C rated valueA• at 30 °C rated valueA• at standard circuit at 40 °C rated valueA• at standard circuit at 40 °C rated valueW• at 30 V	<ul> <li>motor overload protection</li> </ul>		Yes
• adjustable current limitationYes• inside-delta circuitNoproduct component motor brake outputNoinsulation voltage rated valueVdegree of pollution3, acc. to IEC 60947-4-2reference code acc. to DIN EN 61346-2Qreference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750GPower ElectronicsFormationproduct designationSoft starteroperational currentA• at 40 °C rated valueA• at 60 °C rated valueA• at 230 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 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 200/208 V at standard circuit at 50 °C rated value• poerating frequency rated value• poerating frequen	<ul> <li>evaluation of thermistor motor protection</li> </ul>		No
• inside-delta circuitNoproduct component motor brake outputNoinsulation voltage rated valueV600600degree of pollution3, acc. to IEC 60947-4-2reference code acc. to DIN EN 61346-2Qreference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750GPower ElectronicsGproduct designationSoft starteroperational currentA• at 40 °C rated valueA• at 60 °C rated valueA• at 60 °C rated valueA• at 320 VA- at standard circuit at 40 °C rated valueW• at 400 VSoft starter• at 400 V- at standard circuit at 40 °C rated value• at 400 VSoft starter• 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 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• poperating frequency rated valueHz• at atomard circuit at 50 °C rated value•	external reset		Yes
product component motor brake outputNoinsulation voltage rated valueV600degree of pollution3, acc. to IEC 60947-4-2reference code acc. to DIN EN 61346-2Qreference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750GPower ElectronicsGproduct designationSoft starteroperational currentA• at 40 °C rated valueA• at 60 °C rated valueA• at 230 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 200/208 V at standard circuit at 50 °C rated valueWstandard circuit at 40 °C rated valueM055 000yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated valueMp3030	<ul> <li>adjustable current limitation</li> </ul>		Yes
insulation voltage rated value       V       600         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       G         Power Electronics       G         product designation       Soft starter         operational current       A         • at 40 °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       -         - 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 motor at 200/208 V at standard circuit at 50 °C rated value       hp         30       -       -         operating frequency rated value       Hz       50 60         relative negative tolerance of the operating frequency       %       -10	<ul> <li>inside-delta circuit</li> </ul>		No
degree of pollution3, acc. to IEC 60947-4-2reference code acc. to DIN EN 61346-2Qreference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750GPower ElactronicsGproduct designationSoft starteroperational currentA• at 40 °C rated valueA• at 50 °C rated valueA• at 60 °C rated valueA9090yielded mechanical performance for 3-phase motors30 000• at 400 VW- at standard circuit at 40 °C rated valueW90 Jielded mechanical performance for 3-phase motors30 000• at 230 V- at standard circuit at 40 °C rated valueW• at 400 V- at standard circuit at 40 °C rated valueW• at 200 V- at standard circuit at 50 °C rated valueW91 Operating frequency rated valueHz50 6092 Fielded mechanical performance of the operating frequency%-10	product component motor brake output		No
reference code acc. to DIN EN 61346-2Qreference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750GPower ElectronicsGproduct designationSoft starteroperational currentA• at 40 °C rated valueA• at 60 °C rated valueA• at 60 °C rated valueA• at 230 VA- at standard circuit at 40 °C rated valueW• at 400 V at standard circuit at 40 °C rated value• at 400 VW- at standard circuit at 40 °C rated valueW955 0009yielded mechanical performance [hp] for 3-phase AC valuehp3030009 at standard circuit at 50 °C rated valuehp10101010	insulation voltage rated value	V	600
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       106         • at 40 °C rated value       A       98         • at 60 °C rated value       A       90         yielded mechanical performance for 3-phase motors       A       90         • at 230 V       A       90         - at standard circuit at 40 °C rated value       W       30 000         • at 400 V       - at standard circuit at 40 °C rated value       W       30 000         • at 200 V       - at standard circuit at 40 °C rated value       W       55 000         yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value       W       55 000         yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value       Hz       50 60         operating frequency rated value       Hz       50 60       -10	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           • at 40 °C rated value         A           • at 50 °C rated value         A           • at 60 °C rated value         A           • at 60 °C rated value         A           • at 230 V         - at standard circuit at 40 °C rated value           • at 400 V         - at standard circuit at 40 °C rated value           • at 400 V         S5 000           yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value         M           operating frequency rated value         Hz         50 60           relative negative tolerance of the operating frequency         %         -10	reference code acc. to DIN EN 61346-2	-	Q
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• at 40 °C rated valueA106• at 50 °C rated valueA98• at 60 °C rated valueA90yielded mechanical performance for 3-phase motorsA90• at 230 V at standard circuit at 40 °C rated valueW30 000• at 400 V at standard circuit at 40 °C rated valueW55 000yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated valueW55 000operating frequency rated valueHz50 60relative negative tolerance of the operating frequency%-10	product designation		Soft starter
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• at 60 °C rated valueA90yielded mechanical performance for 3-phase motors • at 230 V — at standard circuit at 40 °C rated valueW30 000• at 400 V — at standard circuit at 40 °C rated valueW55 000yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated valueW55 000operating frequency rated valueHz50 60relative negative tolerance of the operating frequency%-10	<ul> <li>at 40 °C rated value</li> </ul>	А	106
yielded mechanical performance for 3-phase motors • at 230 V — at standard circuit at 40 °C rated valueW30 000• at 400 V — at standard circuit at 40 °C rated valueW55 000yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated valueW55 000operating frequency rated valueHz50 60relative negative tolerance of the operating frequency%-10	• at 50 °C rated value	А	98
<ul> <li>at 230 V         <ul> <li>at standard circuit at 40 °C rated value</li> <li>at 400 V                 <ul></ul></li></ul></li></ul>	• at 60 °C rated value	А	90
at standard circuit at 40 °C rated valueW30 000• at 400 V at standard circuit at 40 °C rated valueW55 000yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated valuehp30operating frequency rated valueHz50 60relative negative tolerance of the operating frequency%-10	yielded mechanical performance for 3-phase motors		
• at 400 VW55 000— at standard circuit at 40 °C rated valueW55 000yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated valuehp30operating frequency rated valueHz50 60relative negative tolerance of the operating frequency%-10	• at 230 V		
— at standard circuit at 40 °C rated valueW55 000yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated valuehp30operating frequency rated valueHz50 60relative negative tolerance of the operating frequency%-10	<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	30 000
yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated valuehp30operating frequency rated valueHz50 60relative negative tolerance of the operating frequency%-10	• at 400 V		
motor at 200/208 V at standard circuit at 50 °C rated value     Hz     50 60       operating frequency rated value     Hz     50 60       relative negative tolerance of the operating frequency     %     -10	<ul> <li>— at standard circuit at 40 °C rated value</li> </ul>	W	55 000
relative negative tolerance of the operating frequency % -10	motor at 200/208 V at standard circuit at 50 °C rated	hp	30
	operating frequency rated value	Hz	50 60
	relative negative tolerance of the operating frequency	%	-10
relative positive tolerance of the operating frequency % 10	relative positive tolerance of the operating frequency	%	10
operating voltage at standard circuit rated value V 200 480	operating voltage at standard circuit rated value	V	200 480
relative negative tolerance of the operating voltage at % -15		%	-15
relative positive tolerance of the operating voltage at % 10	relative positive tolerance of the operating voltage at	%	10

	-	
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		21
operation typical	**	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	%	-10
voltage frequency	_	
relative positive tolerance of the control supply voltage frequency	%	10
control supply voltage 1 at AC at 50 Hz	V	110 230
control supply voltage 1 at AC at 60 Hz	V	110 230
relative negative tolerance of the control supply _voltage at AC at 50 Hz	%	-15
relative positive tolerance of the control supply voltage at AC at 50 Hz	%	10
relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15
relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
control supply voltage 1 at DC	V	110 230
relative negative tolerance of the control supply voltage at DC	%	-15
relative positive tolerance of the control supply voltage at DC	%	10
display version for fault signal	-	red
Mechanical data		
Mechanical data size of engine control device	-	S3
	mm	S3 70
size of engine control device	mm mm	
size of engine control device width	-	70
size of engine control device width height	mm	70 170
size of engine control device width height depth	mm	70 170 190
size of engine control device width height depth fastening method	mm	<ul> <li>70</li> <li>170</li> <li>190</li> <li>screw and snap-on mounting</li> <li>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</li> </ul>
size of engine control device width height depth fastening method mounting position	mm	<ul> <li>70</li> <li>170</li> <li>190</li> <li>screw and snap-on mounting</li> <li>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</li> </ul>
size of engine control device width height depth fastening method mounting position	mm	70 170 190 screw and snap-on mounting 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
size of engine control device         width         height         depth         fastening method         mounting position         required spacing with side-by-side mounting         • upwards         • at the side         • downwards	mm	70         170         190         screw and snap-on mounting         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         60         30         40
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum	mm mm mm mm	<ul> <li>70</li> <li>170</li> <li>190</li> <li>screw and snap-on mounting</li> <li>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</li> <li>60</li> <li>30</li> <li>40</li> <li>300</li> </ul>
size of engine control device         width         height         depth         fastening method         mounting position         required spacing with side-by-side mounting         • upwards         • at the side         • downwards         wire length maximum         number of poles for main current circuit	mm mm mm mm	70         170         190         screw and snap-on mounting         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         60         30         40
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals	mm mm mm mm	<ul> <li>70</li> <li>170</li> <li>190</li> <li>screw and snap-on mounting</li> <li>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</li> <li>60</li> <li>30</li> <li>40</li> <li>300</li> </ul>
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection	mm mm mm mm	70         170         190         screw and snap-on mounting         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         60         30         40         300         3
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • at the side • downwards wire length maximum number of poles for main current circuit Connections/ Terminals type of electrical connection • for main current circuit	mm mm mm mm	70         170         190         screw and snap-on mounting         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         60         30         40         300         3         screw-type terminals
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • 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 mm mm	70         170         190         screw and snap-on mounting         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         60         30         40         300         3         screw-type terminals         spring-loaded terminals
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • 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 mm mm	70         170         190         screw and snap-on mounting         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         60         30         40         300         3         screw-type terminals         spring-loaded terminals         0
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • 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 mm mm	70         170         190         screw and snap-on mounting         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         60         30         40         300         3         screw-type terminals         spring-loaded terminals         0         2
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • 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 CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	mm mm mm mm	70         170         190         screw and snap-on mounting         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         60         30         40         300         3         screw-type terminals         spring-loaded terminals         0
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • 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 CO 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 mm mm	70         170         190         screw and snap-on mounting         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         60         30         40         300         3         screw-type terminals         spring-loaded terminals         0         2         1
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • 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 CO 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 mm mm	70         170         190         screw and snap-on mounting         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         60         30         40         300         3         screw-type terminals         spring-loaded terminals         0         2         1         2x (2.5 16 mm²)
size of engine control device width height depth fastening method mounting position required spacing with side-by-side mounting • upwards • 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 CO 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 mm mm	70         170         190         screw and snap-on mounting         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         60         30         40         300         3         screw-type terminals         spring-loaded terminals         0         2         1

main contacts for box terminal using the back			
clamping point			
• solid		2x (2.5 16 mm²)	
<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 mm²)	
<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			
finely stranded		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> )	
finely stranded with core end processing		2x (0.25 1.5 mm²)	
type of connectable conductor cross-sections at AWG cables			
for main contacts		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, 2M2 (max	. fall height 0.3 m)
<ul> <li>during storage acc. to IEC 60721</li> </ul>		1S2 (sand must not get in	,
during operation acc. to IEC 60721		3K6 (no formation of ice, r mist), 3S2 (sand must not	o condensation), 3C3 (no salt get into the devices), 3M6
ambient temperature			<b>·</b> ,.
during operation	°C	-25 +60	
during storage	°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 vertical cor	ntact from the front
Certificates/ approvals			
General Product Approval		EMC	For use in hazard- ous locations
		/	
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Conformity Test Certificates Conformity Special Test Certific- ate Type Test Certific- ates/Test Ref	<u>rtific-</u>	Hovds Register	

other	Railway	
Confirmation	Confirmation	Vibration and Shock

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	30			
• at 460/480 V					
— at standard circuit at 50 °C rated value	hp	75			
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/101494					
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=3RW40	)47-2BB14			
Cax online generator					
http://support.automation.siemens.com/WW/CAXorder/defau		en&mlfb=3RW4047-2BB14			
Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/ww/en/ps/3RW4047					
Image database (product images, 2D dimension drawing		device circuit diagrams, EPLAN macros,)			
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlf					
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