## SIEMENS

## Data sheet

## 3RW5515-1HA14



SIRIUS soft starter 200-480 V 25 A, 110-250 V AC Screw terminals

SIRIUS
Hybrid switching devices
Soft starter
3RW55
<u>3RW5980-0HF00</u>
<u>3RW5980-0CS00</u>
<u>3RW5950-0CH00</u>
<u>3RW5980-0CP00</u>
<u>3RW5980-0CT00</u>
<u>3RW5980-0CR00</u>
<u>3RW5980-0CE00</u>
3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10
3NA3822-6; Type of coordination 1, Iq = 65 kA
3NA3822-6; Type of coordination 1, Iq = 65 kA
<u>3NE1817-0; Type of coordination 2, Iq = 65 kA</u>
<u>3NE8021-1; Type of coordination 2, Iq = 65 kA</u>
20 100 %
50 %; non-adjustable
0 360 s
0 360 s
10 100 %

accuracy class

stopping torque [%]

torque limitation [%]

current limiting value [%] adjustable

breakaway voltage [%] adjustable breakaway time adjustable

number of parameter sets

certificate of suitability

CE markingUL approval

10 ... 100 %

20 ... 200 %

125 ... 800 % 40 ... 100 %

5 (based on IEC 61557-12)

0 ... 2 s 3

Yes

Yes

CSA approval	Yes
product component	
HMI-High Feature	Yes
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3
current unbalance limiting value [%]	10 60 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	
<ul> <li>for main current circuit</li> </ul>	100 ms
for control circuit	100 ms
idle time adjustable	0 255 s
insulation voltage rated value	480 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 600 V
service factor	1.15
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation	
between main and auxiliary circuit	480 V; does not apply for thermistor connection
shock resistance	15  g / 11  ms, from 6 g / 11 ms with potential contact lifting
recovery time after overload trip adjustable	60 1 800 s
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
	02/15/2018
Substance Prohibitance (Date) SVHC substance name	Lead - 7439-92-1
	Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Diboron trioxide - 1303-86-2 Lead titanium trioxide - 12060-00-3
product function	
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes
<ul> <li>breakaway pulse</li> </ul>	Yes
<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes
• pump ramp down	Yes
• DC braking	Yes
motor heating	Yes
min/max pointer	Yes
trace function	Yes
intrinsic device protection	Yes
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
• auto-RESET	Yes
manual RESET	Yes
remote reset	Yes
communication function	Yes
operating measured value display	Yes
event list	Yes
	Yes
<ul> <li>error logbook</li> <li>via software parameterizable</li> </ul>	Yes
via software parameterizable	Yes
via software configurable	
screw terminal	Yes
<ul> <li>spring-loaded terminal</li> <li>PROFlenergy</li> </ul>	No Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
firmware update	Yes
removable terminal for control circuit	Yes

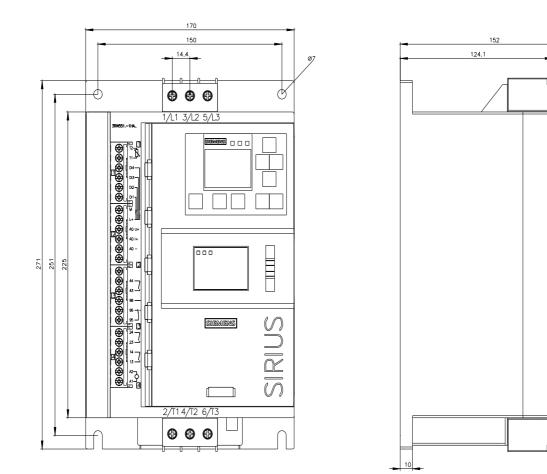
voltage ramp	Yes
torque control	Yes
<ul> <li>combined braking</li> </ul>	Yes
<ul> <li>analog output</li> </ul>	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
<ul> <li>condition monitoring</li> </ul>	Yes
<ul> <li>automatic parameterisation</li> </ul>	Yes
<ul> <li>application wizards</li> </ul>	Yes
<ul> <li>alternative run-down</li> </ul>	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul> <li>reversing operation</li> </ul>	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
• at 40 °C rated value	25 A
• at 40 °C rated value minimum	5 A
• at 50 °C rated value	22.3 A
• at 60 °C rated value	19.6 A
operational current at inside-delta circuit	
<ul> <li>at 40 °C rated value</li> </ul>	43.3 A
at 50 °C rated value	39 A
at 60 °C rated value	33.9 A
operating voltage	
• rated value	200 480 V
<ul> <li>at inside-delta circuit rated value</li> </ul>	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	5.5 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	11 kW
• at 400 V at 40 °C rated value	11 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	18.5 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
• at 40 °C after startup	8 W
• at 50 °C after startup	7 W
• at 60 °C after startup	6 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	364 W
● at 50 °C during startup	309 W
● at 60 °C during startup	262 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
● at 50 Hz	110 250 V
• at 60 Hz	110 250 V
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	10 %

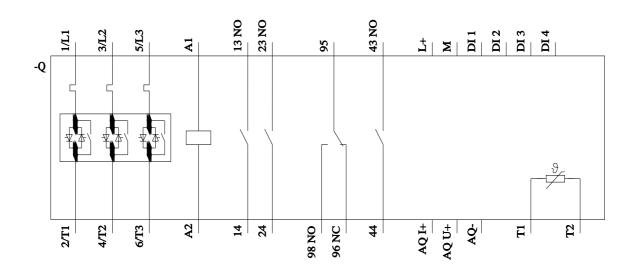
number of digital inputs         4           • parameterizable         4           • number of digital outputs         4           • number of digital outputs parameterizable         3           • number of digital outputs parameterizable         1           digital output version         3 normally-open contacts (NO) / 1 changeover contact (CO)           number of analg outputs         1           switching capacity current of the relay outputs         4           • at AC-15 at 250 V rated value         3 A           • at AC-15 at 250 V rated value         3 A           • at DC-13 at 24 V rated value         1 A           nestalizion/ mounting/ dimensions         Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)           fastening method         screw fixing           height         275 mm           width         170 mm           depth         152 mm           required spacing with side-by-side mounting         0 mm           • backwards         0 mm           • backwards         0 100 mm           • downwards         75 mm           • at the side         5 mm		
relative negative televance of the control supply voltage frequency         -10 %           relative positive televance of the control supply voltage frequency         10 %           control supply current in standary mode rated value         100 mA           holding current in thompse operation rated value         100 mA           holding current in standary mode rated value         100 mA           insub current pack at application of control supply voltage macrum         2.A           voltage         4.           current in standary mode rated value         16 m a           insub current pack at application of control supply voltage macrum         16 m a           current in standary mode rated value         16 m a           design of the corveroltage protection         Variabr           design of short-ficuit protection for control circuit         4.           number of digital optigs parameterizabe         4           - number of digital optigs parameterizabe         4           - number of digital optigs parameterizabe         1           - number of digital optigs parameterizabe         3.           - number of digital optigs parameterizabe         3.           - number of digital optigs parameterizabe         1           - number of digital optigs parameterizabe         3.           - number of digital optigs parameterizabe	AC at 60 Hz	
frequency         image           relative positive foreance of the control supply voltage         10.% A           holding current in standy mode rated value         10.5 m.A           incurse trans to positive control supply voltage         43.A           mana numer to peak at application of control supply voltage         43.B           design of the overvoltage protection         Variator           design of the overvoltage protection for control circuit         A Q S foue (10.1 K.M. S A quick-acting fuse (10.2 H.M.) C ministure circuit breaker (10.2 B.M.)           number of digital fuputs         4.A Q S foue (10.1 K.M. S A quick-acting fuse (10.2 H.M.) C ministure circuit breaker (10.2 B.M.)           number of digital outputs         4.A Q S foue (10.1 H.M.) S A quick-acting fuse (10.2 H.M.) C ministure circuit breaker (10.2 B.M.)           number of digital outputs         4.A Q S foue (10.1 H.M.) S A quick-acting fuse (10.2 H.M.) C ministure circuit breaker (10.2 B.M.)           number of digital outputs         4.A Q S foue (10.1 H.M.) S A quick-acting fuse (10.2 H.M.) C ministure circuit breaker (10.2 B.M.)           number of digital outputs         4.A Q S foue (10.1 H.M.) S A quick-acting fuse (10.2 H.M.) C ministure circuit breaker (10.2 B.M.)           number of digital outputs samelerizable         3.A           number of digital outputs samelerizable         3.A           attact of a dis 0 V mode Value         3.A           atta di dis 2 S V mode Value <td>control supply voltage frequency</td> <td>50 60 Hz</td>	control supply voltage frequency	50 60 Hz
image by control is useful mode rated value         iof mA           holding current in bypass operation rated value         160 mA           invalue current by closing the bypass contacts maximum         2.4 A           invalue current by closing the bypass contacts maximum         4.3 A           invalue current by closing the bypass contacts maximum         4.3 A           design of the overoritage protection         Varistor           design of the overoritage protection of control circuit         Yange (part 1.4), 6.4 quick-cating func (part 1.4), 6.7 miniature circuit breaker (fore 500 A), 6 miniature circuit breaker (fore 500 A), 7 miniature circuit break		-10 %
holding current by being the bypess contacts maximum         65 mA           invast current by closing the bypess contacts maximum         0.2 A           invast current by closing the bypess contacts maximum         0.2 A           invast current by closing the bypess contacts maximum         0.2 A           invast current by closing the bypess contacts maximum         0.2 A           invast current by closing the bypess contacts maximum         0.2 A           design of the overvoltage protection         4.4           design of the overvoltage protection         4.4           enumber of digital outputs         4           enumber of digital outputs         4           enumber of digital outputs         4           enumber of digital outputs         3           enumber of digital outputs parameterizable         3           enumber of digital outputs         4           enumber of algital outputs         4           enumber of algital outputs         4           enumber of digital outputs         3           enumber of digital outputs         4           enumber of digital outputs         3		10 %
Invasit current by closing the bypass contacts maximum         0.2 Å           massit current cash at application of control supply visitage         43 Å           design of the overvoltage protection         43 Å           design of the overvoltage protection for control focult         4 Å gG (see (Ear + FA), 8 Å quick acting (see (Ear + FA), 6 Å ministure desult scope of supply           massite carried for a set of the overvoltage protection         4 Å gG (see (Ear + FA), 6 Å quick acting (see (FA), 7 Å quick	control supply current in standby mode rated value	100 mA
incument to eak at application of control supply voltage         43 Å           duration of innah current peak at application of control supply voltage         1.5 ms           design of the overvoltage protection         Varistor           design of the overvoltage protection for control circuit         4.9 G fuse (fuse 14.8), 6.0 quick catting (ice (fuse 14.8), C.1 miniature circuit breaker (ice 300 A); is not part of service of supply           number of digital outputs         4           • number of analog outputs         1           • at AC-15 at 250 V rade value         3 A           • at AC-15 at 250 V rade value         3 A           • at AC-15 at 24 V rade value         1 A           • at AC-15 at 24 V rade value         1 A           • at AC-15 at 24 V rade value         1 A           • at AC-15 at 24 V rade value         1 A           • at AC-15 at 24 V rade value         1 A           • at AC-15 at 250 V rade value         1 A           • at AC-15 at 250 V rade value         275 mn	holding current in bypass operation rated value	165 mA
maximum         i.6 ms           design of the over-oldage protection         1.6 ms           design of short-circuit protection for control circuit         4 A Q G fuse ((cu=1 KA), 6 A quick acting fuse ((cu=1 KA), C1 ministure circuit breaker ((cu=2 KA), C1 ministure circuit breaker (cu=2 KA), C1 ministure circuit C0 ministure circuit (C0)           number of digital outputs not parameterizable         3 normallycogn contacts (NC) / 1 changeover contact (CO)           number of algital outputs not parameterizable         3 normallycogn contacts (NC) / 1 changeover contact (CO)           number of algital outputs not parameterizable         3 normallycogn contacts (NC) / 1 changeover contact (CO)           number of algital outputs not parameterizable         3 normallycogn contacts (NC) / 1 changeover contact (CO)	inrush current by closing the bypass contacts maximum	0.2 A
votage         votage           design of the vorollage protection         Variabre           design of abort-circuit protection for control circuit         A A G A fuse ((up + 1AA), 6 A quick-acting fuse ((ku + 1AA), C1 ministure circuit breaker (ku = 300 A); is not part abort action for control circuit breaker (ku = 300 A); is not part abort action for control circuit           number of digital inputs         4           • parameterizable         4           • unmber of digital outputs parameterizable         3           • number of digital outputs parameterizable         1           mumber of digital outputs parameterizable         1           • attablication for control of the relay outputs         3           • attablication for control of the relay outputs         3           • attablication mouting outputs         3           • attabli		43 A
dealgn of short-circuit protection for control circuit         4 A QG fuse (num 1 AA) 6 A quick-acting fuse (log 1 4A), C1 ministure circuit breaker (log 3 30A); is not part of a grant of		1.6 ms
breaker (low= 800 A), C6 miniature circuit breaker (low= 300 A); Is not part of approximation of a second support           number of digital loutps         4           • unmber of digital outputs         4           • unmber of digital outputs         4           • unmber of digital outputs         4           • unmber of digital outputs parameterizable         3           • number of digital outputs not parameterizable         3           • unmber of digital outputs not parameterizable         3           • at DC-13 at 24 V rated value         3 A           • at DC-13 at 24 V rated value         3 A           • at DC-13 at 24 V rated value         3 A           • at DC-13 at 24 V rated value         3 A           • at DC-13 at 24 V rated value         3 A           • at DC-13 at 24 V rated value         3 A           • at DC-13 at 24 V rated value         3 A           • at DC-13 at 24 V rated value         3 A           • at DC-13 at 24 V rated value         3 A           • at DC-13 at 24 V rated value         1 A           • at DC-13 at 24 V rated value         1 A           • at DC-13 at 24 V rated value         1 A           • at DC-13 at 24 V rated value         1 A           • at DC-13 at 24 V rated value         1 A           • backt	design of the overvoltage protection	Varistor
number of digital inputs         4           • parameterizable         4           • number of digital outputs parameterizable         3           • number of digital outputs parameterizable         3           • number of digital outputs not parameterizable         3           • at DC-15 at 250 V rated value         3 A           • at DC-15 at 24 V rated value         1 A           notating position         Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)           fasting method         screw fixing           height         275 nm           width         170 nm           depth         152 mm           required spacing with side-by-side mounting         0 mm           • low ards         0 mm           • advards         0 mm           • downwards         2 s kg           connectional         5 nm           • downwards         5 nm           • for nain current circuit         screw-type terminals           • for output cross-section = 0.5 nm² maximum         150 m           • with conductor cross-sections         5 nm           • for nain current circuit         screw-type terminals           • for output cross-sections         5 0 m           • for main current circuit	design of short-circuit protection for control circuit	breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of
• parameterizable4• number of digital outputs4• number of digital outputs parameterizable3• number of digital outputs parameterizable3• number of digital outputs not parameterizable3• digital output version3• number of digital outputs3• number of digital outputs3• eit AC-15 at 250 Vratel value3• eit AC-15 at 250 Vratel value3• 10C-13 at 24 Vratel value3• 10C-13 at 24 Vratel value3• 10C-13 at 24 Vratel value275 nm• 10C-13 at 24 Vratel value100 nm• 1	Inputs/ Outputs	
	number of digital inputs	4
• number of digital outputs parameterizable3• number of digital outputs not parameterizable1• number of analog outputs3 normally-open contacts (NO) / 1 changeover contact (CO)• number of analog outputs3 A• at AC-15 at 250 V rated value3 A• at AC-15 at 250 V rated value3 A• at DC-15 at 24 V rated value3 A• noruting obstionVertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)festening method275 mmheight152 mmrequired spacing with side-by-side mounting152 mm• orowards10 mm• orowards0 mm• orowards90 mm• orowards3 N• oromating consection5 Nm• oromating consection5 Nm• oromating consection5 Nm• oromating consection5 Nm• origo ratic constit5 Nm• oromating consection = 0.5 mm* maximum150 N• with conductor cross-section = 0.5 mm* maximum150 N• with conductor cross-section = 2.5 mm* maximum150 N• with conductor cross-section = 2.5 mm* maximum150 N• oromating contacts5 Nm• oromating contacts5 Nm• oromating contacts5 Nm• oromating contacts5 Nm• oromating contacts <td< td=""><td>parameterizable</td><td>4</td></td<>	parameterizable	4
• number of digital outputs parameterizable3• number of digital outputs not parameterizable1• number of analog outputs3 normally-open contacts (NO) / 1 changeover contact (CO)• number of analog outputs3 A• at AC-15 at 250 V rated value3 A• at AC-15 at 250 V rated value3 A• at DC-15 at 24 V rated value3 A• noruting obstionVertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)festening method275 mmheight152 mmrequired spacing with side-by-side mounting152 mm• orowards10 mm• orowards0 mm• orowards90 mm• orowards3 N• oromating consection5 Nm• oromating consection5 Nm• oromating consection5 Nm• oromating consection5 Nm• origo ratic constit5 Nm• oromating consection = 0.5 mm* maximum150 N• with conductor cross-section = 0.5 mm* maximum150 N• with conductor cross-section = 2.5 mm* maximum150 N• with conductor cross-section = 2.5 mm* maximum150 N• oromating contacts5 Nm• oromating contacts5 Nm• oromating contacts5 Nm• oromating contacts5 Nm• oromating contacts <td< td=""><td></td><td></td></td<>		
• number of digital output snot parameterizable1digital output version3 normally-open contacts (NO) / 1 changeover contact (CO)switching capacity current of the relay outputs1• at AC-15 at 250 V rated value3 A• at DC-13 at 24 V rated value1 Anounting positionVertical (can be rotated +/-90° and tilted forward or backward +/- 22.5°)festening methodscrew fixingheight275 nmwidth170 nmdepth252 mm• forwards0 mm• lowards100 mm• lowards0 mm• lowards100 nm• lowards75 mm• lowards23 kg• lowards5 mm• lowards100 nm• lowards100 nm• lowards5 mm• lowards5 mm• lowards5 mm• lowards5 mm• lowards5 mm• lowards100 nm• lowards100 nm• lowards10 nm <td><ul> <li>number of digital outputs</li> </ul></td> <td>4</td>	<ul> <li>number of digital outputs</li> </ul>	4
digital output version       3 normally-open contacts (NO) / 1 changeover contact (CO)         number of analog outputs       1         switching capacity current of the relay outputs       3 A         • at DC-13 at 24 V rated value       3 A         • at DC-13 at 24 V rated value       1 A         • at DC-13 at 24 V rated value       1 A         • at DC-13 at 24 V rated value       2 A         • at DC-13 at 24 V rated value       2 A         • at DC-13 at 24 V rated value       1 A         • at DC-13 at 24 V rated value       1 A         • at DC-13 at 24 V rated value       1 A         • at DC-13 at 24 V rated value       1 A         • at DC-13 at 24 V rated value       275 mm         • for main contacts       275 mm         • at the side       100 mm         • actwards       0 mm         • at the side       5 mm         • for main current circuit       screw-type terminals         • for ontin current circuit       screw-type terminals         • for ontin current circuit       50 m         • with conductor cross-section = 0.5 mm <sup>*</sup> maximum       50 m	<ul> <li>number of digital outputs parameterizable</li> </ul>	3
number of analog outputs         1           switching capacity current of the relay outputs         3 A           at AC-15 at 250 V rated value         3 A           at DC-15 at 24 V rated value         1 A           nounting position         Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)           fastening method         screw fixing           height         275 mm           width         162 mm           depth         100 mm           elowards         100 mm           oforwards         0 mm           ownwards         100 mm           ownwards         75 mm           ownwards         75 mm           ownwards         57 mm           ownwards         57 mm           ofor control circuit         screw-type terminals           ofor control circuit         screw-type terminals           of control		1
number of analog outputs         1           switching capacity current of the relay outputs         3 A           at AC-15 at 250 V rated value         3 A           at DC-15 at 24 V rated value         1 A           nounting position         Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)           fastening method         screw fixing           height         275 mm           width         162 mm           depth         100 mm           elowards         100 mm           oforwards         0 mm           ownwards         100 mm           ownwards         75 mm           ownwards         75 mm           ownwards         57 mm           ownwards         57 mm           ofor control circuit         screw-type terminals           ofor control circuit         screw-type terminals           of control	digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
switching capacity current of the relay outputs         3 Å           • at AC-15 at 250 V rated value         3 Å           • at DC-13 at 24 V rated value         1 Å           stallation/mounting/ dimesions         Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)           required spacing with of the space section is a section is section in the space section is section is section in the space section is section		
• at AC-15 at 250 V rated value     3 A       • at DC-13 at 24 V rated value     1 A       restallation/ mounting/ dimensions     vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)       fastening method     screw fixing       height     275 mm       depth     152 mm       elowards     10 mm       elowards     0 mm       elowards     100 mm       elowards     0 mm       elowards     100 mm       elowards     100 mm       elowards     100 mm       elowards     0 mm       elowards     5 mm       elowards     50 m       elowards     50 m       with conductor cross-section = 0.5 mm² maximum     50 m       elow rotact cross-section = 0.5 mm² maximum     50 m       elow rotact cross-section = 0.5 mm² maximum     50 m       elow rotact cross-sections     50 m       efor main contacts     22 (10 25 mm²), 2x (25 10 mm²)       - solid     2x (10 25 mm²), 2x (25 10 mm²)       elor controt circuit solid     2x (10 25 mm²), 2x (25 .	÷ • •	
• at DC-13 at 24 V rated value1 Anstallator/ mounting/ dimensionsmounting positionVertical (can be rotated +/- 90° and litted forward or backward +/- 22.5°)featening methodscrew fixingheight275 mmwidth170 nmdepth152 nmrequired spacing with side-by-side mountingomm•forwards0 mm•backwards00 mm•backwards00 mm•backwards57 mm•backwards50 mm•backwards50 mm•backwards50 mm•backwards50 mm•backwards50 mm•backwards50 m•backwards50 m•backwards50 m•for main current circuitscrew-type terminals•for control circuitscrew-type terminals•for ontrol circuit50 m•for ontrol circuit50 m•with conductor cross-section = 0.5 mm <sup>2</sup> maximum150 m•with conductor cross-section = 0.5 mm <sup>2</sup> maximum150 m•with conductor cross-section = 0.5 mm <sup>2</sup> maximum150 m•with conductor cross-section = 1.5 mm <sup>2</sup> maximum150 m•with conductor cross-section = 0.5 mm <sup>2</sup> maximum150 m•with conductor cross-section = 1.5 mm <sup>2</sup> maximum150 m•with conductor cross-section = 0.5 mm <sup>2</sup> maximum150 m•with condu		3 A
Installation/ mounting/ dimensions         Vertical (can be rotated +/- 90° and tilled forward or backward +/- 22.5°)           fastening method         screw fixing           height         275 mm           width         170 mm           depth         152 mm           required spacing with side-by-side mounting         -           • forwards         10 mm           • backwards         0 mm           • upwards         100 mm           • downwards         75 mm           • at the side         5 mm           weight without packaging         2.3 kg           2onnections/ Terminals         screw-type terminals           weight with conductor cross-section = 0.5 mm* maximum         50 m           • with conductor cross-section = 1.5 mm* maximum         50 m           • with conductor cross-section = 2.5 mm* maximum         50 m           • for main current circuit         50 m           • with conductor cross-sections         50 m           • for main current circuit         50 m           • with conductor cross-sections         50 m           • for main current circuit         50 m           • with conductor cross-sections         50 m           • for control circuit         50 m           • with conduc		
mounting position         Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)           fastening method         screw fixing           height         275 mm           width         170 mm           depth         152 mm           • forwards         0 mm           • backwards         0 mm           • downwards         75 mm           • downwards         75 mm           • downwards         75 mm           • at the side         5 mm           vegight without packaging         2.3 kg           connections/ Terminals         screw-type terminals           with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 1.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 1.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-section = 1.5 mm <sup>2</sup> maximum         50 m           • for main contacts         -           solid         2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )           forely stranded with core end processing         2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )           • for co		
fastening method         screw fixing           height         275 mm           width         170 mm           depth         152 mm           required spacing with side-by-side mounting         152 mm           • forwards         10 mm           • backwards         0 mm           • upwards         100 mm           • downwards         75 mm           • downwards         75 mm           • at the side         5 mm           • at the side         5 mm           • at the side         5 mm           • odownwards         75 mm           • at the side         5 mm           • at the side         5 mm           • for main current circuit         screw-type terminals           • for main current circuit         screw-type terminals           • for nontol circuit         50 m           • with conductor cross-section = 0.5 mm <sup>3</sup> maximum         50 m           • with conductor cross-section = 2.5 mm <sup>3</sup> maximum         50 m           • with conductor cross-sections         2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )           • for main contacts         - solid         2x (1.0 2.5 mm <sup>3</sup> ), 2x (2.5 60 mm <sup>3</sup> )           • for control circuit solid         1x (0.5 4.0 mm <sup>3</sup> ), 2x (0.5 2.6 mm <sup>3</sup> )		Vertical (can be retated $\pm 1,00^{\circ}$ and tilted forward or backward $\pm 1,22.5^{\circ}$ )
height275 mmwidth170 mmdepth152 mmrequired spacing with side-by-side mountingi• forwards0 mm• backwards0 mm• backwards0 mm• upwards100 mm• downwards5 mm• at the side5 mmweight without packaging2.3 kgConnections/ Terminals• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for control circuit50 m• with conductor cross-section = 0.5 mm <sup>2</sup> maximum50 m• with conductor cross-section = 1.5 mm <sup>2</sup> maximum50 m• with conductor cross-section = 2.5 mm <sup>2</sup> maximum50 m• with conductor cross-section = 2.5 mm <sup>2</sup> maximum50 m• for control circuitscrew-type terminals• for control cross-section = 2.5 mm <sup>2</sup> maximum50 m• with conductor cross-section = 2.5 mm <sup>2</sup> maximum50 m• with conductor cross-section = 2.5 mm <sup>2</sup> maximum50 m• for MWG cables for main current circuit solid2x (10 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>3</sup> )• for control circuit solid2x (10 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>3</sup> )• for control circuit solid1x (15 2.5 mm <sup>3</sup> ), 2x (0.5 1.5 mm <sup>3</sup> )• for control circuit solid1x (20 12), 2x (14 8)type of connectable conductor cross-sections1x (0.5 2.5 mm <sup>3</sup> ), 2x (0.5 1.5 mm <sup>3</sup> )• for AWG cables for control circuit solid1x (20 12), 2x (20 14)wire length• between soft starter and mot		
width170 mmdepth152 mmrequired spacing with side-by-side mounting10 mm• forwards0 mm• backwards0 mm• upwards100 mm• downwards75 mm• downwards5 mm• at the side5 mmweight without packaging2.3 kgconnections/ Torminalstype of electrical connection• for control circuitscrew-lype terminals• for control circuitscrew-lype terminalswith conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum50 m• for main current circuit solid2x (10 2.5 mm²), 2x (2.5 10 mm²)• for control dircuit solid2x (10 2.5 mm²), 2x (2.5 10 mm²)• for control circuit solid2x (10 2.5 mm²), 2x (0.5 10 mm²)• for control circuit solid1x (10 2.5 mm²), 2x (0.5 10 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (20 12), 2x (10 15 mm²)• for control circuit solid1x (20 12), 2x (20 14)• for control circuit solid1x (20 12), 2x (20 14)		
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weight without packaging         2.3 kg           Connections/ Terminals         screw-type terminals           type of electrical connection         screw-type terminals           • for control circuit         screw-type terminals           wire length for thermistor connection         screw-type terminals           • with conductor cross-section = 0.5 mm² maximum         50 m           • with conductor cross-section = 1.5 mm² maximum         50 m           • with conductor cross-section = 2.5 mm² maximum         250 m           type of connectable conductor cross-sections         -           • for main contrats         -           - solid         2x (1.0 2.5 mm²), 2x (2.5 10 mm²)           - solid         2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)           - for AWG cables for main current circuit solid         2x (1.6 12), 2x (14 8)           type of connectable conductor cross-sections         -           • for control circuit finely stranded with core end processing         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)           • for control circuit finely stranded with core end processing         1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)           • for control circuit finely stranded with core end processing         1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)           • for control circuit finely stranded with core end processing         1x (0.5 2.5 mm²), 2x (0.5 1.	downwards	75 mm
Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-sections         • for main contacts         - solid         - solid         - solid         - for AWG cables for main current circuit solid         type of connectable conductor cross-sections         • for control circuit solid         type of connectable conductor cross-sections         • for AWG cables for main current circuit solid         type of connectable conductor cross-sections         • for control circuit finely stranded with core end processing         • for control circuit solid         type of connectable conductor cross-sections         • for control circuit finely stranded with core end processing         • for control circuit finely stranded with core end processing         • for control circuit solid         through the conductor cross-sections         • for control circuit finely stranded with core end processing         •	at the side	5 mm
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• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• wire length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• for main contacts-• for main contacts-• for main contacts2x (1.0 2.5 mm²), 2x (2.5 10 mm²)• for AWG cables for main current circuit solid2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)• for control circuit solid2x (1.6 12), 2x (14 8)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (10 12), 2x (10 13)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)• wire length • between soft starter and motor maximum800 m	Connections/ Terminals	
• for control circuitscrew-type terminalswire length for thermistor connectionscrew-type terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections250 m• for main contacts2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- solid2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)- finely stranded with core end processing2x (16 12), 2x (14 8)type of connectable conductor cross-sections1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 2.0 m²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 2.0 m²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid800 m	type of electrical connection	
wire length for thermistor connection	for main current circuit	screw-type terminals
with conductor cross-section = 0.5 mm² maximum50 mwith conductor cross-section = 1.5 mm² maximum150 mwith conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections	for control circuit	screw-type terminals
• with conductor cross-section = 1.5 mm² maximum150 m• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections250 m• for main contacts solid2x (1025 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (1025 mm²), 2x (2.5 60 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections-• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (0.5 2.0 1.5 mm²)• for AWG cables for control circuit solid800 m	wire length for thermistor connection	
• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections-• for main contacts solid2x (102.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (102.5 mm²), 2x (2.5 6.0 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections-• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)wire length-• between soft starter and motor maximum800 m	<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m
type of connectable conductor cross-sections• for main contacts2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- solid2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)- finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for control circuit solid1x (20 12), 2x (20 14)wire length800 m	<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m
<ul> <li>for main contacts</li> <li>solid</li> <li>- solid</li> <li>2x (1.0 2.5 mm<sup>2</sup>), 2x (2.5 10 mm<sup>2</sup>)</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main current circuit solid</li> <li>2x (1.0 2.5 mm<sup>2</sup>), 2x (2.5 6.0 mm<sup>2</sup>)</li> <li>2x (16 12), 2x (14 8)</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>1x (0.5 4.0 mm<sup>2</sup>), 2x (0.5 2.5 mm<sup>2</sup>)</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>tx (0.5 4.0 mm<sup>2</sup>), 2x (0.5 2.5 mm<sup>2</sup>)</li> <li>tx (0.5 4.0 mm<sup>2</sup>), 2x (0.5 1.5 mm<sup>2</sup>)</li> <li>tx (0.5 12), 2x (20 14)</li> <li>wire length</li> <li>between soft starter and motor maximum</li> </ul>	<ul> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m
solid       2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         finely stranded with core end processing       2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)         for AWG cables for main current circuit solid       2x (16 12), 2x (14 8)         type of connectable conductor cross-sections	type of connectable conductor cross-sections	
finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections	<ul> <li>for main contacts</li> </ul>	
finely stranded with core end processing2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections		2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sectionsIx (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing • for AWG cables for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)wire length800 m	- finely stranded with core end processing	
type of connectable conductor cross-sectionsIx (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing • for AWG cables for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• wire length1x (20 12), 2x (20 14)• between soft starter and motor maximum800 m		
<ul> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>for AWG cables for control circuit solid</li> <li>tx (0.5 4.0 mm²), 2x (0.5 2.5 mm²)</li> <li>1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>tx (0.5 12), 2x (20 14)</li> <li>wire length</li> <li>between soft starter and motor maximum</li> <li>800 m</li> </ul>		
<ul> <li>for control circuit finely stranded with core end processing</li> <li>for AWG cables for control circuit solid</li> <li>ix (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>ix (20 12), 2x (20 14)</li> <li>wire length</li> <li>between soft starter and motor maximum</li> <li>800 m</li> </ul>		$1x (0.5 \pm 4.0 \text{ mm}^2) 2x (0.5 \pm 2.5 \text{ mm}^2)$
for AWG cables for control circuit solid     1x (20 12), 2x (20 14)      wire length         between soft starter and motor maximum     800 m		
wire length     800 m		
between soft starter and motor maximum     800 m		IX (20 12), 2X (20 14)
	-	000
at the digital inputs at DC maximum     1 000 m		
	<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m

61-11-6	
tightening torque	0.051
for main contacts with screw-type terminals	2 2.5 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
tightening torque [lbf·in]	
for main contacts with screw-type terminals	18 22 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	7 10.3 lbf·in
terminals	
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get
	inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
Environmental footprint	
Siemens Eco Profile (SEP)	Siemens EcoTech
EMC emitted interference	acc. to IEC 60947-4-2: Class A, Class B on request
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
PROFINET high-feature	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
<ul> <li>of circuit breaker usable for Standard Faults</li> </ul>	
— at 460/480 V according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA
— 60/480 V according to UL	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; Iq max = 65 kA
<ul> <li>— at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA
— 60/480 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 60 A; lq max = 65 kA
— at 575/600 V according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA
- 75/600 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 60 A; lq max = 65 kA
— at 575/600 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA
• of the fuse	
<ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 100 A; lq = 5 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 100 A; Iq = 100 kA
<ul> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 100 A; lq = 5 kA
<ul> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 100 A; lq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	5 hp
• at 220/230 V at 50 °C rated value	7.5 hp
• at 460/480 V at 50 °C rated value	15 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	10 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	10 hp
at 460/480 V at inside-delta circuit at 50 °C rated value	25 hp
contact rating of auxiliary contacts according to UL	R300-B300
Electrical Safety	IP20
protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	inger-safe, for vertical contact from the front
ATEX	
Safety Integrity Level (SIL) according to IEC 61508 relating	SIL1
to ATEX	

PFHD with high demand relating to ATEX	rate according to IEC	61508	5E-7 1/h		
PFDavg with low demand relating to ATEX	d rate according to IE	C 61508	0.008		
hardware fault tolerance	according to IEC 615	08 relating to	0		
T1 value for proof test in IEC 61508 relating to AT		ccording to	3 a		
certificate of suitability					
• ATEX			Yes		
• IECEx			Yes		
according to ATEX directive 2014/34/EU			BVS 18 ATEX F 003 X		
	by the ATEX directive 2014/34/EU by the ATEX directive 2014/34/EU II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb D [Ex db Mb]				
Approvals Certificates					
General Product Approv	ral				
CE EG-Konf.	UK CA		<u>Confirmation</u>		EHC
EMV		For use in haza	rdous locations	Test Certificates	Marine / Shipping
_					
RCM	KC	IECEX	(Ex) ATEX	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping			other	Environment	
Marine / Shipping	Lloyd's Register uis	PRS	other Confirmation	EPD	Siemens EcoTech
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