## SIEMENS

## Data sheet

## 3RW5515-1HA14



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

China - China	
product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	<u>3RW5950-0CH00</u>
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3822-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3822-6; Type of coordination 1, Iq = 65 kA
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1817-0; Type of coordination 2, Iq = 65 kA</u>
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE8021-1; Type of coordination 2, Iq = 65 kA</u>
General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 %; non-adjustable
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %
stopping torque [%]	10 100 %

accuracy class

torque limitation [%]

current limiting value [%] adjustable

breakaway voltage [%] adjustable breakaway time adjustable

number of parameter sets

certificate of suitability

CE markingUL approval

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
Substance Prohibitance (Date)	02/15/2018
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 Dicyclohexyl phthalate (DCHP) - 84-61-7 Dodecamethylcyclohexasiloxane (D6) - 540-97-6 Lead titanium trioxide - 12060-00-3 Diboron trioxide - 1303-86-2
product function	
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes
• ramp-down (soft stop)	Yes
breakaway pulse	Yes
adjustable current limitation	Yes
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes
• pump ramp down	Yes
• DC braking	Yes
motor heating	Yes
slave pointer function	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
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes
• event list	Yes
• error logbook	Yes
via software parameterizable	Yes
via software configurable	Yes
screw terminal	Yes
spring-loaded terminal	No
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules
firmware update	Yes

	Vec
removable terminal for control circuit	Yes
voltage ramp	Yes
torque control	Yes
combined braking	Yes
analog output	Yes; 4 20 mA (default) / 0 10 V
programmable control inputs/outputs	Yes
condition monitoring	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	
<ul> <li>at 40 °C rated value</li> </ul>	25 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	5 A
• at 50 °C rated value	22.3 A
• at 60 °C rated value	19.6 A
operational current at inside-delta circuit	
• at 40 °C rated value	43.3 A
• at 50 °C rated value	39 A
• at 60 °C rated value	33.9 A
operating voltage	
<ul> <li>rated value</li> </ul>	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	40.8/
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
at 400 V at inside-delta circuit at 40 °C rated value	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 %

Ac at 6 is z         Security supply voltage frequency         9060 hz           relative negative tolerance of the control supply voltage frequency         10 %           relative positive tolerance of the control supply voltage frequency         10 %           control supply current in standay mode rated value         105 m.A.           holding current in standay mode rated value         105 m.A.           holding current in standay mode rated value         105 m.A.           holding current in standay mode rated value         104 M.           holding current in standay mode rated value         104 M.           holding current in standay mode rated value         104 M.           holding current in standay mode rated value         104 M.           design of the overvoltage protection         Varistor           design of the overvoltage protection of control supply voltage         4 A gG fue (u=1 KA), 6 A quick acting fue (u=1 KA), Cl miniture circuit breaker (u= 500 A); Is not part of supply voltage           number of digital inputs         4           number of digital inputs         4           number of digital inputs         3 A           number of digital outputs parameterizabe         3 A           number of digital outputs         3 A           number of digital outputs         3 A           number of digital outputs         3 A </th <th></th> <th>10.0/</th>		10.0/			
requency         -10 %.           requency         -10 %.           requency         10 %.           requency         10 %.           control supply current in standby mode rated value         100 mA           holding current in standby mode rated value         100 mA           holding current in standby mode rated value         100 mA           holding current in standby mode rated value         100 mA           holding current in standby mode rated value         100 mA           holding current in standby mode rated value         100 mA           design of the overvoltage protection         Variator           design of short-circuit protection of control supply value         4.           wardtor of insub current peak at application of control incruit         brace of supply           incurber of digital inputs         4.           • unruber of digital outputs         1.           • unruber of digital outputs         3.           • unruber of digital outputs         3.           • unruber of digital outputs         3.           • unrube	relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %			
frequery	control supply voltage frequency	50 60 Hz			
requery         Image: Ima		-10 %			
holding current in bypass operation rated value         165 mA           Intrush current peak at application of control supply voltage maximum         0.2 A           Unration current peak at application of control supply voltage maximum         0.3 A           design of the overvoltage protection         Varistor           design of the overvoltage protection for control circuit         Varistor           design of the overvoltage protection         Varistor           number of digital inputs         4           • parameterizable         4           • unruber of digital outputs separameterizable         4           • unruber of digital outputs not parameterizable         3           • alt AC-15 at 250 Vited value         3 A           • alt AC-15 at 250 Vited value         3 A           • alt AC-15 at 250 Vited value         3 A           • alt AC-15 at 250 Vited value         3 A           • alt AC-15 at 250 Vited value         3 A           • alt AC-15 at 250 Vited value         3 A           • alt AC-15 at 250 Vited value         3 A           • alt AC-15 at 250 Vited value         3 A           • alt AC-15 at 250 Vited value         3 A           • alt AC-15 at 250 Vited value         3 A           • alt AC-15 at 250 Vited value         3 A           • alt AC-15		10 %			
Invash current by closing the bypass contacts maximum         0.2 Å           Invash nummt peak at application of control supply voltage maximum         43 Å           Obsign of the overvoltage protection         43 Å           design of the overvoltage protection         Variator           mumber of digital inputs         4           number of digital outputs parameterizable         4           number of digital outputs parameterizable         4           number of digital outputs on parameterizable         1           extention digital outputs on parameterizable         1           extention gautputs         1           extention gautputs         1           extention gautputs         1           extenting capacity current of the relay outputs         3 A           extenting capacity current of the relay outputs         3 A           extention mounting/ dimensions         10           mounting open contacts (NO) / 1 changeover contact (CO)         10           interval         3 A           extention mounting/ dimensions         10           requited spacing with side-by-side m	control supply current in standby mode rated value	100 mA			
maximum         43 Å           duration of invub carrent peak at application of control supply         1.6 ms           design of the overvoltage protection         Variator           design of the overvoltage protection for control circuit         A & gG hase (locar 1 AA), 6 A quick-acting fuse (locar 1 AA), C1 miniture circuit beaker (locar 3 AA), 15 miniture circuit beaker (locar 3 A), 15 miniture circuit (locar 3 A), 15 minitan, 15 miniture circuit (locar 3 A), 15 miniture c	holding current in bypass operation rated value	165 mA			
maximum         1.6 ms           vortation of much accent pask at application of control supply         1.6 ms           design of the overvoltage protection         Varisfor           design of the overvoltage protection for control circuit         4 Ag G kas (cur=1 kA), 6 A quick-acting has (cur=1 kA), C1 miniature circuit breaker (cur=300 A); 6 miniature circuit (cur)           enumber of digital outputs on pareneticitable         4           enumber of digital outputs on pareneticitable         3 A           et al CC-13 at 24 V rated value         3 A           et al CC-13 at 24	inrush current by closing the bypass contacts maximum	0.2 A			
duration of invaih current peak at application of control supply obligits     1.6 ms       design of the overvoitage protection     Variator       design of short-fircuit protection for control circuit mumber of digital inputs     4.4 g G size (curr 1 A/), 6 A quick-acting face ((curr 1 A/), C1 ministure circuit breaker (curr 3 A/), C1 ministure circuit breaker (curr 3 A/), C1 ministure circuit breake		43 A			
design of the overvoltage protection         Variator           design of short-incuit protection for control circuit         A a gG fuse (tu=1 KA), 6 A quidx-acting fuse (tu=1 KA), C1 miniture circuit breaker (tu= 300 A), 15 not part of soppoly           inputs/ Outputs         4           number of digital inputs         4           • parameterizable         4           • number of digital outputs parameterizable         3           • number of digital outputs parameterizable         1           eiget al 200 Y rate value         3 normally-open contacts (NO) / 1 changeover contact (CO)           number of analg outputs         1           eiget al 200 Y rate value         3 A           • at AC = 5 200 Y rate value         3 A           • at DC = 13 at 24 V rated value         1 A           Installatour mounting/ dimensions         75 mm           mounting pacing with side-by-side mounting         152 mm           • forwards         0 mm           • forwards         0 mm           • downwards         75 mm           • downwards         75 mm           • downwards         75 mm           • for main current circuit         screw-lype terminals           • or outing package with side-by-side mounting         50 mm           • for main current circuit         sc		1.6 ms			
design of short-circuit protection for control circuit     4 A gG fuer (ka=1 AA) & G auck-acting fues (ku=1 KA), Cf miniature circuit breaker (ku= 300 A); is not part of scope of supply.       Impute/ Outputs     4       • parameterizable     4       • number of digital outputs parameterizable     3       • number of aligital outputs parameterizable     1       • at AC-15 at 250 V rated value     3 A       • at AC-15 at 250 V rated value     3 A       • at AC-15 at 250 V rated value     1 A       Instantion mounting dimensions     Vertical (can be rotated +/- 90° and litted forward or backward +/- 22.5°)       fastening method     screw fixing       • actowards     0 mm       • depth     152 mm       required spacing with side-by-side mounting     • for main Current fixing       • for control circuit     screw-bype terminals	voltage				
breaker (fou= 600 Å), C6 miniature circuit breaker (fou= 300 Å); is not part of soppe of supply           number of digital inputs         4           • parameter/zable         4           • number of digital outputs         1           • at Ac-1s at 28 V rated value         3 A           • at DC-1s at 24 V rated value         3 A           • at DC-1s at 24 V rated value         3 A           • at DC-1s at 24 V rated value         3 A           • at DC-1s at 24 V rated value         170 mm           • dight         170 mm           • dight         170 mm           • dight         170 mm           • downwards         78 mm           • of main current forcuit         Screw-type terminals           • of ro main current forcuit         50 m           • o		Varistor			
number of digital inputs     4       • parameterizable     4       • number of digital outputs     4       • number of digital outputs parameterizable     3       • number of digital outputs parameterizable     1       • number of digital outputs parameterizable     1       • number of digital outputs oparameterizable     1       • number of digital outputs oparameterizable     1       • at DC-15 at 250 V rated value     3 A       • at DC-15 at 250 V rated value     1 A       Installation/mounting / dimonsions     Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)       fastening method     Server fxing       fastening method     10 mm       • orawards     0 mm       • orawards     0 mm       • orawards     10 mm       • orawards     10 mm       • orawards     2.3 kg       Connections/ Terminals     screw-type terminals       vire length for thermistor connection     5 m       • for main current circuit     screw-type terminals       • for main current circuit     50 m       • with conductor cross-sections = 1.5 mm <sup>2</sup> maximum     50 m       • for on circuit     25 mm <sup>2</sup> , 2x (10 25 mm <sup>2</sup> ), 2x (25 10 mm <sup>2</sup> )       • for control circuit     50 m       • with conductor cross-sections = 1.5 mm <sup>2</sup> maximum	design of short-circuit protection for control circuit	breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of			
	Inputs/ Outputs				
	number of digital inputs	4			
• number of digital outputs parameterizable         3           • number of digital outputs not parameterizable         1           • digital outputs version         3 normally-open contacts (NO) / 1 changeover contact (CO)           number of analog outputs         1           • at AC-15 at 250 V rated value         3 A           • at AC-15 at 24 V rated value         1 A           • at AC-16 at 250 V rated value         1 A           • at AC-16 at 250 V rated value         1 A           • at AC-16 at 250 V rated value         1 A           • at AC-16 at 250 V rated value         1 A           • at AC-16 at 250 V rated value         1 A           • fastening method         screw fixing           fastening method         screw fixing           • forwards         100 mm           • forwards         0 mm           • forwards         0 mm           • downwards         75 mm           • at the side         5 mm           • out out out contacts         5 mm           • for contol circuit         screw-type terminals           • for onal current circuit         50 m           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-sections = 0.5 mm <sup>2</sup> maximum         50 m	parameterizable	4			
• number of digital outputs parameterizable         3           • number of digital outputs not parameterizable         1           • digital outputs version         3 normally-open contacts (NO) / 1 changeover contact (CO)           number of analog outputs         1           • at AC-15 at 250 V rated value         3 A           • at AC-15 at 24 V rated value         1 A           • at AC-16 at 250 V rated value         1 A           • at AC-16 at 250 V rated value         1 A           • at AC-16 at 250 V rated value         1 A           • at AC-16 at 250 V rated value         1 A           • at AC-16 at 250 V rated value         1 A           • fastening method         screw fixing           fastening method         screw fixing           • forwards         100 mm           • forwards         0 mm           • forwards         0 mm           • downwards         75 mm           • at the side         5 mm           • out out out contacts         5 mm           • for contol circuit         screw-type terminals           • for onal current circuit         50 m           • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         50 m           • with conductor cross-sections = 0.5 mm <sup>2</sup> maximum         50 m					
• number of digital outputs not parameterizable         1           digital output version         3 normally-open contacts (NO) / 1 changeover contact (CO)           number of analog outputs         1           • at AC-15 at 250 V rated value         3 A           • at DC-13 at 24 V rated value         3 A           • tablaction/ nounting/ dimensions         Vertical (can be rotated +/- 90" and tilled forward or backward +/- 22.5")           fastaliation/ nounting/ dimensions         Server fixing           mounting position         Vertical (can be rotated +/- 90" and tilled forward or backward +/- 22.5")           fastening method         server fixing           height         170 nm           depth         152 mm           required spacing with side-by-side mounting         0 mm           • forwards         10 mm           • backwards         0 mm           • upwards         100 nm           • downwards         5 mm           • at the side         5 mm           Vertical connection         screw-type terminals           • for oranic current circuit         screw-type terminals           • for oranic current dircuit         screw-type terminals           • for oranic oranestor         50 m           • for oranici dircuit solid         2x (10 25 mm <sup>2</sup> ),	<ul> <li>number of digital outputs</li> </ul>				
digital output version       3 normally-open contacts (NO) / 1 changeover contact (CO)         number of analog outputs       1         switching capacity current of the relay outputs       a A         • at DC-15 at 24 V rated value       3 A         • at DC-13 at 24 V rated value       1 A         Installation/ mounting/ dimensions       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         required spacing with side-by-side mounting       0 mm         • forwards       0 mm         • upwards       100 mm         • downwards       5 mm         • at the side       5 mm         Very of electrical connection       screw-type terminals         wire length for thermistor connection       screw-type terminals         with conductor cross-section = 0.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       50 m <td><ul> <li>number of digital outputs parameterizable</li> </ul></td> <td>3</td>	<ul> <li>number of digital outputs parameterizable</li> </ul>	3			
number of analog outputs         1           switching capacity current of the relay outputs         at AC-15 at 250 V rated value         3 A           • at AC-15 at 250 V rated value         1 A           Installation/ mounting/ climensions         1 A           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           • upwards         100 mm           • upwards         0 mm           • downwards         75 mm           • at the side         5 mm           weight without packaging         2.3 kg           Connection/ Terminals         50 m           • for control circuit         screw-type terminals	<ul> <li>number of digital outputs not parameterizable</li> </ul>				
switching capacity current of the relay outputs       3 A         • at AC-15 at 250 V rated value       3 A         • at DC-13 at 24 V rated value       1 A         Installation' 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       •         • forwards       0 mm         • backwards       0 mm         • upwards       100 mm         • downwards       57 mm         • at the side       5 mm         velight without packaging       2.3 kg         Connections/ Terminals       screw-type terminals         • for main current circuit       screw-type terminals         • for ontol circuit       screw-type terminals         • with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       50 m         • with conductor cross-section = 2.5 mm² maximum       50 m         • for onnot clocu					
• at AC-15 at 250 V rated value       3 A         • at DC-13 at 24 V rated value       1A         Installation/ mounting/ dimensions       Installation/ mounting/ dimensions         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         required spacing with side-by-side mounting       •         • forwards       0 mm         • upwards       100 mm         • upwards       100 mm         • downwards       75 mm         • at the side       5 mm         weight without packaging       2.3 kg         Connections/ Terminals       screw-type terminals         vifr control circuit       screw-type terminals         • for control circuit       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       250 m         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       250 m         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum       250 m         • solid       2x (10 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         • for control	number of analog outputs	1			
• at DC-13 at 24 V rated value       1 A         Installation/ mounting/ dimensions       Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)         fastening method       screw fixing         height       275 mm         width       110 mm         depth       152 mm         required spacing with side-by-side mounting       •         • forwards       10 mm         • backwards       0 mm         • upwards       100 mm         • downwards       5 mm         • at the side       5 mm         weight 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 = 0.5 mm <sup>2</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>3</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>3</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>3</sup> maximum       50 m         • for main current circuit       250 m         • with conductor cross-section = 2.5 mm <sup>3</sup> maximum       50 m         • for Main contacts       - solid         - solid       2x (1025 mm <sup>3</sup> ), 2x (2510 mm <sup>3</sup> )         • for onnectable co	switching capacity current of the relay outputs				
Installation/ mounting/ dimensions           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           required spacing with side-by-side mounting         0 mm           • forwards         0 mm           • backwards         0 mm           • downwards         75 mm           • downwards         75 mm           • downwards         75 mm           • downwards         75 mm           • downwards         5 mm           • downwards         5 mm           • at the side         5 mm           screw-type terminals         screw-type terminals           • for main current circuit         screw-type terminals           • for control circuit         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-sections         6 or main contacts           - solid         2x (1.0 2.5 mm²), 2x (2.5 10 mm²)           - finely stranded with core end processing         2x (1.0 2.5	• at AC-15 at 250 V rated value	3 A			
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           • upwards         100 mm           • backwards         0 mm           • upwards         100 mm           • downwards         75 mm           • at the side         5 mm           • at the side         5 mm           • ornototic provents         2.3 kg           Connections/Terminals         50 m           with conductor cross-section = 0.5 mm <sup>9</sup> maximum         50 m           • with conductor cross-section = 0.5 mm <sup>9</sup> maximum         50 m           • with conductor cross-section = 0.5 mm <sup>9</sup> maximum         50 m           • with conductor cross-section = 2.5 mm <sup>9</sup> maximum         50 m           • with conductor cross-sections         50 m           • for main contacts         2x (1.0 2.5 mm <sup>9</sup> ), 2x (2.5 10 mm <sup>9</sup> )           - solid         2x (1.0 2.5 mm <sup>9</sup> ), 2x (2.5 10 mm <sup>9</sup> )           • for main contacts         2x (1.0 2.5 mm <sup>9</sup> ), 2x (0.5 2.5 mm <sup>9</sup> )	<ul> <li>at DC-13 at 24 V rated value</li> </ul>	1 A			
fastening method       screw fixing         height       275 mm         width       170 mm         depth       152 mm         required spacing with side-by-side mounting       0 mm         • forwards       0 mm         • backwards       0 mm         • backwards       0 mm         • downwards       50 mm         • at the side       75 mm         • at the side       5 mm         veight without packaging       2.3 kg         Connections/Terminals       50 m         type of electrical connection       screw-type terminals         • for control circuit       screw-type terminals         wire length for thermistor connection       50 m         • with conductor cross-section = 0.5 mm² maximum       50 m         • with conductor cross-section = 1.5 mm² maximum       50 m         • for main current circuit       screw-type terminals         with conductor cross-section = 2.5 mm² maximum       50 m         • for main contacts       - solid         - solid       2x (1.0 2.5 mm²), 2x (2.5 10 mm²)         - forely stranded with core end processing       2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)         • for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	Installation/ mounting/ dimensions				
height       275 mm         width       170 mm         depth       152 mm         required spacing with side-by-side mounting       -         • forwards       10 mm         • backwards       0 mm         • backwards       0 mm         • downwards       100 mm         • downwards       100 mm         • downwards       75 mm         • at the side       5 mm         • at the side       5 mm         • of electrical connection       5 mm         • for control circuit       screw-type terminals         wire length for thermistor connection       • for control circuit         • with conductor cross-section = 0.5 mm <sup>a</sup> maximum       50 m         • with conductor cross-section = 1.5 mm <sup>a</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>a</sup> maximum       250 m         • type of connectable conductor cross-sections       - solid         • of or main current sincuit solid       2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )         • of or main current solid       2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )         • of or control circuit solid       2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )         • of or control circuit solid       2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )	mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)			
vidth         170 mm           depth         152 mm           required spacing with side-by-side mounting         10 mm           • forwards         0 mm           • backwards         0 mm           • upwards         100 mm           • downwards         75 mm           • at the side         5 mm           • at the side         5 mm           • at the side         5 mm <b>Connections/ Terminals</b> 2.3 kg           Connections/ Terminals         screw-type terminals           • for control circuit         screw-type terminals           • for control circuit         screw-type terminals           • 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         250 m           • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         250 m           • with conductor cross-sections         - solid           • for anin contracts         - solid           - solid         2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )           - finely stranded with core end processing         2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 6.0 mm <sup>2</sup> )           • for control circuit solid         1x (0.5	fastening method	screw fixing			
depth       152 mm         required spacing with side-by-side mounting       10 mm         • forwards       10 mm         • backwards       0 mm         • upwards       100 mm         • downwards       75 mm         • at the side       5 mm         • at the side       5 mm         veight without packaging       2.3 kg         Connections/Terminals       5 mm         • for control circuit       screw-type terminals         • for control circuit       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       250 m         • for main contacts       - solid         - 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 control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)	height	275 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         Connections/ Terminals       5 mm         type of electrical connection       screw-type terminals         • for main current circuit       screw-type terminals         with conductor cross-section = 0.5 mm <sup>3</sup> maximum       50 m         • with conductor cross-section = 1.5 mm <sup>3</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>3</sup> maximum       50 m         • with conductor cross-section = 2.5 mm <sup>3</sup> maximum       150 m         • with conductor cross-sections       250 m         • for anin contacts       - solid         - solid       2x (1.0 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         • for AWG cables for main current circuit solid       2x (1.0 2.5 mm <sup>3</sup> ), 2x (2.5 6.0 mm <sup>3</sup> )         • for control circuit solid       1x (0.5 4.0 mm <sup>3</sup> ), 2x (0.5 2.5 mm <sup>3</sup> )         • for control circuit solid       1x (0.5 4.0 mm <sup>3</sup> ), 2x (0.5 1.5 mm <sup>3</sup> )	width	170 mm			
forwards10 mm• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• weight without packaging2.3 kgConnections/ Terminals5 mmtype of electrical connectionscrew-type terminals• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• with 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• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• for main contacts solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- forklyG cables for main current circuit solid2x (16 12), 2x (14 8)type of connectable conductor cross-sections-• for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)• for control circuit solid1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	depth	152 mm			
• backwards0 mm• upwards100 mm• downwards75 mm• at the side5 mm• at the side2.3 kgConnections/ Terminalstype of electrical connection• for control circuitscrew-type terminals• for control circuitscrew-type terminals• for control circuit50 m• with 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• with conductor cross-sections250 m• for main contrats250 m• for main contrats2x (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 10 mm²)• 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 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 control circuit finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	required spacing with side-by-side mounting				
• upwards100 mm• downwards75 mm• at the side5 mmweight without packaging2.3 kgConnections/ Terminalsscrew-type terminals• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• for control circuit50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum150 m• with conductor cross-sections250 m• with conductor cross-sections250 m• of or 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 solid1x (0.5 4.0 mm²). 2x (0.5 2.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 4.0 mm²). 2x (0.5 1.5 mm²)• for control circuit finely stranded with core end processing1x (0.5 2.5 mm²). 2x (0.5 1.5 mm²)	forwards	10 mm			
• downwards75 mm• at the side5 mmweight without packaging2.3 kgConnections/ Terminals2.3 kgconnections/ Terminalsscrew-type terminals• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• for control circuitscrew-type terminals• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 m• type of connectable conductor cross-sections2x (10 2.5 mm²), 2x (2.5 10 mm²)• for main contacts- solid- solid2x (10 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-sections- for control circuit solid• 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)	backwards	0 mm			
• at the side5 mmweight without packaging2.3 kgConnections/Terminalstype of electrical connection• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• for control circuitscrew-type terminals• with 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 maximum250 mtype of connectable conductor cross-sections2x (1.0 2.5 mm²), 2x (2.5 10 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-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)	• upwards	100 mm			
weight without packaging2.3 kgConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• for control circuitscrew-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 m• with conductor cross-sections250 m• for main contacts- solid- solid2x (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-sections1x (0.5 4.0 mm²), 2x (0.5 2.5 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)	downwards	75 mm			
Connections/ Terminals         type of electrical connection         • for main current circuit         • for control circuit         screw-type terminals         wire length for thermistor connection         • 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         ± with conductor cross-section = 2.5 mm² maximum         ± with conductor cross-sections         • for main contacts         - solid         - solid         - finely stranded with core end processing         ± for AWG cables for main current circuit solid         ± for control circuit solid         • for control circuit solid         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)	• at the side	5 mm			
type of electrical connection• for main current circuitscrew-type terminals• for control circuitscrew-type terminalswire length for thermistor connection50 m• with conductor cross-section = 0.5 mm² maximum50 m• with conductor cross-section = 1.5 mm² maximum50 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-section = 2.5 mm² maximum250 m• with conductor cross-sections250 m• for main contacts- solid- solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (10 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 solid• 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)	weight without packaging	2.3 kg			
• for main current circuitscrew-type terminals• for control circuitscrew-type terminals• wire 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 m• with conductor cross-section = 2.5 mm² maximum250 m• type of connectable conductor cross-sections-• for main contacts solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (10 2.5 mm²), 2x (2.5 6.0 mm²)• for AWG cables for main current circuit solid2x (16 12), 2x (14 8)• 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)	Connections/ Terminals				
<ul> <li>for control circuit</li> <li>for control circuit</li> <li>screw-type terminals</li> <li>SO m</li> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> <li>SO m</li> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> <li>So m</li> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> <li>So m</li> <li>type of connectable conductor cross-sections</li> <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>for AWG cables for main current circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>for control circuit solid</li> <li>type of connectable conductor cross-sections</li> <li>if or control circuit solid</li> <li>1x (0.5 4.0 mm<sup>2</sup>), 2x (0.5 2.5 mm<sup>2</sup>)</li> </ul>	type of electrical connection				
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 mtype of connectable conductor cross-sections250 m• for main contacts- solid solid2x (1.0 2.5 mm²), 2x (2.5 10 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-sections1x (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 main current circuit	screw-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-sections-• for main contacts solid2x (1.0 2.5 mm²), 2x (2.5 10 mm²)- finely stranded with core end processing2x (10 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 finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	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-sections	wire length for thermistor connection				
• with conductor cross-section = 2.5 mm² maximum250 mtype of connectable conductor cross-sections-• for main contacts solid2x (1.0 2.5 mm²), 2x (2.5 10 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 finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	<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 contacts- solid- solid with core end processing2x (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-sections• for control circuit solid1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m			
• for main contacts         2x (1.0 2.5 mm²), 2x (2.5 10 mm²)           - 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         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)           • for control circuit solid         1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	<ul> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m			
	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-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 finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	for main contacts				
• for AWG cables for main current circuit solid       2x (16 12), 2x (14 8)         type of connectable conductor cross-sections       • for control circuit solid         • for control circuit solid       1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         • for control circuit finely stranded with core end processing       1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)			
type of connectable conductor cross-sections• for control circuit solid• for control circuit finely stranded with core end processing1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	<ul> <li>— finely stranded with core end processing</li> </ul>	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)			
<ul> <li>for control circuit solid</li> <li>for control circuit finely stranded with core end processing</li> <li>1x (0.5 4.0 mm<sup>2</sup>), 2x (0.5 2.5 mm<sup>2</sup>)</li> <li>1x (0.5 2.5 mm<sup>2</sup>), 2x (0.5 1.5 mm<sup>2</sup>)</li> </ul>	<ul> <li>for AWG cables for main current circuit solid</li> </ul>	2x (16 12), 2x (14 8)			
• for control circuit finely stranded with core end processing 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )	type of connectable conductor cross-sections				
	<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)			
	<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)			
IOI AVVG CADIES TOR CONTROL CIRCUIT SOLID     1X (20 12), 2X (20 14)	<ul> <li>for AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)			
wire length	wire length				
between soft starter and motor maximum     800 m	<ul> <li>between soft starter and motor maximum</li> </ul>	900 m			
at the digital inputs at DC maximum     1 000 m		800 11			

tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	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]			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	18 22 lbf-in		
	7 10.3 lbf·in		
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.5 00111		
Ambient conditions			
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog		
ambient temperature			
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above		
during storage and transport	-40 +80 °C		
environmental category			
during operation according to IEC 60721	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		
during transport according to IEC 60721	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		
<ul> <li>PROFINET high-feature</li> </ul>	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		
— at 460/480 V at inside-delta circuit according to 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; Iq 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			
usable for Standard Faults up to 575/600 V	Type: Class RK5 / K5, max. 100 A; lg = 5 kA		
according to UL	1960. Slubb NNO / NO, Max. 100 A, 19 - 0 NA		
— usable for High Faults up to 575/600 V according to	Type: Class J / L, max. 100 A; Iq = 100 kA		
UL — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class RK5 / K5, max. 100 A; lq = 5 kA		
	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		
<ul> <li>at 200/208 V at isside-delta circuit at 50 °C rated value</li> </ul>	10 hp		
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	10 hp		
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	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	finger-safe, for vertical contact from the front		
Safety Integrity Level (SIL) according to IEC 61508 relating	SIL1		
to ATEX			

PFHD with high dema relating to ATEX	nd rate according to IEC	61508 5E	-7 1/h				
PFDavg with low dema relating to ATEX	and rate according to IEC	<b>61508</b> 0.0	0.008				
hardware fault toleran ATEX	ce according to IEC 6150	8 relating to 0	0				
T1 value for proof test IEC 61508 relating to A	t interval or service life ac ATEX	cording to 3 a	3 а				
certificate of suitabilit	y						
• ATEX		Ye	Yes				
• IECEx		Ye	Yes				
<ul> <li>according to ATE</li> </ul>	X directive 2014/34/EU	BV	S 18 ATEX F 003 X				
	ording to ATEX directive		2)G [Ex eb Gb] [Ex db Gb] ( db Mb]	[Ex pxb Gb], II (2)D [Ex	tb Db] [Ex pxb Db], I (M2)		
pprovals Certificates							
General Product App	oval						
SP CM	CE EG-Konf.	UK CA		<u>Confirmation</u>			
General Product Approval	EMV		For use in hazardou	is locations	Test Certificates		
EHC	RCM	KC	IECEx	K ATEX	Type Test Certific- ates/Test Report		
Marine / Shipping				other	Environment		
ABS	BUREAU VERITAS	Lloyds Register uis	PRS	<u>Confirmation</u>	EPD		
Environment							
Siemens EcoTech	Environmental Con- firmations						
urther information							
Information on the page	ckaging siemens.com/cs/ww/en/vie	w/109813875					
Information- and Dow	nloadcenter (Catalogs, Bi						
https://www.siemens.co							
Industry Mall (Online on https://mall.industry.sier	ordering system) mens.com/mall/en/en/Catal	log/product?mlfb=3RV	<u>V5515-1HA14</u>				
Industry Mall (Online on https://mall.industry.sier Cax online generator				<u>\14</u>			

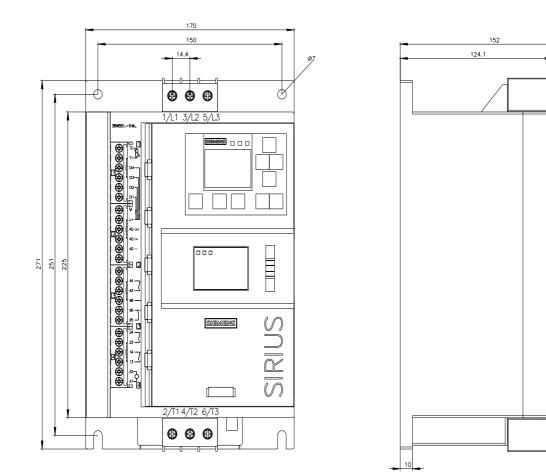
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW5515-1HA14&lang=en

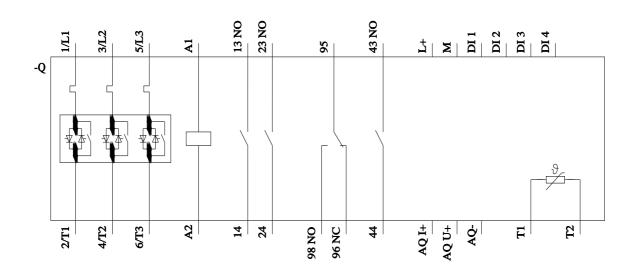
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5515-1HA14/char

Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5515-1HA14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)





4/19/2024 🖸

274.8