SIEMENS

product brand name

product category product designation

Data sheet 3RW5516-1HA14

SIRIUS

Soft starter

Hybrid switching devices



SIRIUS soft starter 200-480 V 32 A, 110-250 V AC Screw terminals





h	
product type designation	3RW55
manufacturer's article number	
of high feature HMI module usable	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
• of communication module PROFINET high-feature usable	3RW5950-0CH00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4VA10; Type of coordination 1, Iq = 10 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3RV2032-4JA10; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3RV2032-4JA10; Type of coordination 1, Iq = 10 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3824-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3824-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1818-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE8022-1; Type of coordination 2, Iq = 65 kA
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 %
torque limitation [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3
accuracy class	5 (based on IEC 61557-12)
certificate of suitability	
CE marking	Yes
UL approval	Yes

CSA approval	Yes
product component	
HMI-High Feature	Yes
is supported HMI-High Feature	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	
for main current circuit	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	
• ramp-up (soft starting)	Yes
• ramp-down (soft stop)	Yes
breakaway pulse	Yes
adjustable current limitation	Yes
 creep speed in both directions of rotation 	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.
 evaluation of thermistor motor protection 	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
• 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

 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
 automatic parameterisation 	Yes
application wizards	Yes
alternative run-down	Yes
 emergency operation mode 	Yes
 reversing operation 	Yes
soft starting at heavy starting conditions	Yes
Power Electronics	
operational current	
at 40 °C rated value	32 A
 at 40 °C rated value minimum 	6.5 A
• at 50 °C rated value	28.4 A
at 60 °C rated value	26 A
operational current at inside-delta circuit	
• at 40 °C rated value	55.4 A
• at 50 °C rated value	49 A
at 60 °C rated value	45 A
operating voltage	
rated value	200 480 V
at inside-delta circuit rated value	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 inside-delta circuit	-15 %
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	7.5 kW
• at 230 V at inside-delta circuit at 40 °C rated value	15 kW
• at 400 V at 40 °C rated value	15 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	22 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	10 W
• at 50 °C after startup	9 W
at 60 °C after startup	8 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	519 W
 at 50 °C during startup 	437 W
at 60 °C during startup	386 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
Control circuit/ Control	10
type of voltage of the control supply voltage	AC
control supply voltage at AC	110 250 //
• at 50 Hz • at 60 Hz	110 250 V
	110 250 V
	15 %
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 % -
relative negative tolerance of the control supply voltage at	-15 % 10 %

number of digital inputs		
Interest tolerance of the control supply voltage frequency 10 %		10 %
frequency reclaive positive tolerance of the control supply vorted for installing positive tolerance of the control supply current in standby mode rated value bidding current in bypass operation rated value in 165 mA. Insula current peck at application of control supply voltage maximum insula current peck at application of control supply voltage dasign of fine current peak at application of control supply voltage voltage. dissign of a font-circuit protection for control circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit brasker (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit subject (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit subject (four-900 A), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit subject (four-1 AA), 6 A quick-acting fuse (four-1 AA), 6 A quick-acting fuse (four-1 AA), C1 ministure circuit subject (four-1 AA), 6 A quick-acting fuse (four-1 AA), 6 A q	control supply voltage frequency	50 60 Hz
March Marc		-10 %
holding current in bryans operation rated value 15 m/h	relative positive tolerance of the control supply voltage	10 %
166 mA 167 max 167 m	<u> </u>	100 mA
Intrust current by closing the bypass contacts maximum 19.2 A		165 mA
insus numer peak at application of control supply voltage maximum duration of invish current peak at application of control supply voltage design of the overvoltage protection Variation (al. 4 pc) (0.2 A
maximum duration of inush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit braker (clu= 100 A), 6 A quick-acting fuse (cu=1 kA), 51 miniature circuit braker (clu= 500 A), 6 A miniature circuit breaker (clu= 300 A); Is not part of scope of supply inputar Outputs number of digital inputs • number of digital outputs • number of digital outputs parameterizable • number of digital outputs • number of analog outputs • at AC-15 at 250 V rated value • at AC-15 at 2		43 A
voltage design of the overvoltage protection design of short-circuit protection for control circuit design of short-circuit protection for control circuit protect Outputs number of digital inputs • parameterizable • number of digital outputs • number of digital outputs • number of digital outputs parameterizable • number of digital output so the parameterizable • number of all act 250 V rated value • at IA C-15 at 250 V rated	maximum	1.6 ms
A GG Size (Flourit IA), 6 A quick-scring flase (Flourit IA), 6 in ministure strout breaker (Flouris BOD A), CB ministure circuit breaker (Flouris BOD A), CB m		
inputs/ Outputs Imputs/ Outputs/ Outputs Imputs/ Outputs/	design of the overvoltage protection	Varistor
### Parameterizable ### Pa	·	breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of
• number of digital outputs • number of digital outputs parameterizable • number of digital outputs parameterizable • number of digital outputs parameterizable digital output version • number of analog outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value • at D	Inputs/ Outputs	
• number of digital outputs • number of digital outputs parameterizable • number of digital outputs not parameterizable • number of digital outputs not parameterizable • number of adigital outputs not parameterizable • number of adigital outputs • number of adigital outputs • number of adigital outputs • at Oc-15 at 250 V rated value • at Oc-13 at 250 V rated value • at Oc-13 at 250 V rated value • at Oc-13 at 24 V rated value • at Oc-13 at 24 V rated value • at Oc-13 at 24 V rated value • at Oc-13 at 250	number of digital inputs	4
• number of digital outputs parameterizable digital output version number of digital outputs not parameterizable digital output version number of analog outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 1 A Installation innounting dimensions mounting position Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method height 275 mm witching dapacing with side-by-side mounting equived spacing with side-by-side mounting • forwards • downwards • downw	parameterizable	4
• number of digital outputs parameterizable digital output version number of digital outputs not parameterizable digital output version number of analog outputs • at AC-15 at 250 V rated value • at DC-13 at 24 V rated value 1 A Installation innounting dimensions mounting position Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) fastening method height 275 mm witching dapacing with side-by-side mounting equived spacing with side-by-side mounting • forwards • downwards • downw		
• number of digital outputs not parameterizable 1 3 normally-open contacts (NO) / 1 changeover contact (CO) number of analog outputs 1 1	 number of digital outputs 	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-15 at 28 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 10 mm • backwards 0 mm • backwards 100 mm • downwards 75 mm • dt the side 5 mm weight without packaging 2.6 kg Connections/Torminals type of electrical connection • 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 = 2.5 mm² maximum 250 m • for main contacts 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) • for main contacts 2x (1.0 2.5 mm²	 number of digital outputs parameterizable 	3
number of analog outputs 1 switching capacity current of the relay outputs 3 A • at AC-13 at 25 V rated value 1 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 152 mm depth 152 mm required spacing with side-by-side mounting 152 mm forwards 0 mm • backwards 0 mm • backwards 0 mm • at the side 5 mm • at the side 5 mm villed thin the side without packaging 2.6 kg Connections/ Terminals 5 mm type of electrical connection 5 crew-type terminals • for control circuit screw-type terminals with conductor cross-section = 1.5 mm² maximum 50 m with conductor cross-section = 1.5 mm² maximum 50 m with conductor cross-section = 2.5 mm² maximum 25 m with conductor cross-section = 2.5 mm² maximum 25	 number of digital outputs not parameterizable 	1
switching capacity current of the relay outputs at AC-15 at 250 V rated value at DC-13 at 24 V rated value 1 A Installation/mounting/ dimensions mounting position Server fixing Astening method Alterial at 25 mm width 4 port many 4 port many 4 port many 4 port many 5 port many 4 port onnectable conductor cross-sections • for own control circuit solid — finely stranded with core end processing • for AWC cables for control circuit solid 4 pot were langth • for control circuit finely stranded with core end processing • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • for for AWC cables for control circuit solid • between soft starter and motor maximum • soft control circuit solid • between soft starter and motor maximum • between soft starter and motor maximum • soft control circuit solid • between soft starter and motor maximum • soft control circuit solid	digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
at AC-15 at 250 V rated value at DC-13 at 24 V rated value Tounting position vertical (can be rolated +/- 90° and tilted forward or backward +/- 22.5°) fastening method height 275 mm vidth 170 mm depth 152 mm required spacing with side-by-side mounting of orwards backwards Upwards	number of analog outputs	1
naturalization mounting dimensions mounting position fastening method fastening method feeth fastening method feeth fequired spacing with side-by-side mounting forwards for	switching capacity current of the relay outputs	
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 100 mm • backwards 0 mm • upwards 100 mm • downwards 150 mm • at the side 5 mm weight without packaging 5 mm weight without packaging 5 mm vertical connection 6 main current circuit solid 100 mm • with conductor cross-section = 1.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 250 m • for main current circuit 100 mm • with conductor cross-section = 2.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 150 m • with conductor cross-section = 2.5 mm² maximum 150 m • for main current circuit 200 mm • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections 150 m² maximum 150 m • for main current circuit 250 mm² maximum 250 m type of connectable conductor cross-sections 100 mm², 2x (2.5 10 mm²) • for AWG cables for main current circuit solid 1x (0.5 4.0 mm²), 2x (2.5 6.0 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 1.5 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 1.5 mm²) • for AWG cables for control circuit solid 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 1.5 mm²) • for control circuit finely stranded with core end processing 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) • for AWG cables for control circuit solid 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 1.5 mm²)	 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 required spacing with side-by-side mounting 6 rowards 6 forwards 0 mm 9 backwards 0 mm 4 obownards 75 mm 6 odownwards 5 mm 8 at the side 5 mm weight without packaging 2.6 kg Conscions/ Tornials type of electrical connection 5 rom 6 for control circuit screw-type terminals vire length for thermistor connection 5 crew-type terminals wire length for thermistor connection 5 or 9 with conductor cross-section = 0.5 mm² maximum 150 m 9 with conductor cross-section = 0.5 mm² maximum 250 m 150 m 250 m	 at DC-13 at 24 V rated value 	1 A
fastening method screw fixing height 275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting 152 mm e forwards 10 mm e backwards 0 mm e upwards 100 mm e downwards 5 mm e at the side 5 mm weight without packaging 2.6 kg Connections/ Terminals 5 mm e for main current circuit screw-type terminals e for control circuit screw-type terminals wire length for thermistor connection 9 mm with conductor cross-section = 0.5 mm² maximum 50 mm e with conductor cross-section = 1.5 mm² maximum 50 mm with conductor cross-section = 2.5 mm² maximum 250 mm type of connectable conductor cross-sections 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) e for main contacts 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) e for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) e for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) e	Installation/ mounting/ dimensions	
height 275 mm width 170 mm depth 152 mm required spacing with side-by-side mounting required spacing with side-by-side mounting • forwards 0 mm • backwards 0 mm • downwards 75 mm • at the side 5 mm weight without packaging 2.6 kg Connections/Terminals type of electrical connection • for main current circuit screw-type terminals • for control circuit screw-type terminals wirle 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 150 m • with conductor cross-section = 2.5 mm² maximum 250 m type of connectable conductor cross-sections cfor main contacts - solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) - for main contacts 2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²) • for AWG cables for main current circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) • for control circuit finely stranded with core end pro	mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
width 152 mm required spacing with side-by-side mounting • forwards • backwards • upwards • at the side • at the side weight without packaging connections/Terminals type of electrical connection • for main current circuit • for control circuit ross-sections • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-sections • for main contacts - solid - for main current circuit solid • for control circuit solid • for control circuit solid • for control circuit solid • for main cortacts - solid - for main current circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core en	fastening method	screw fixing
required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side • at the side • for control circuit solid • for control circuit solid • for aNVG cables for control circuit solid • for ANVG cables for control circuit solid • for aNVG cables for control circuit solid • for control circuit solid • for control circuit solid • for ANVG cables for control circuit solid • for control circuit soled • for ANVG cables for control circuit solid • for control circuit soled • for ANVG cables for control circuit solid • for control circuit soled • for ANVG cables for control circuit solid • for control circuit solid • for ANVG cables for control circuit solid • for control circuit finely stranded with core end processing • for control circuit solid • for solve cables for control circuit solid • for solve cables for control circuit solid • for control circuit solid • for solve cables for control circuit solid • for control circuit solid • for control circuit solid • for solve cables for control circuit solid • f	height	275 mm
required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side **earth weight without packaging **Connections/ Terminals **type of electrical connection • for main current circuit • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 1.5 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-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • for AWG cables for main current circuit solid * for control circuit solid * for control circuit solid • for AWG cables for control circuit solid • for AWG cables for control circuit solid • for AWG cables for control circuit solid • for AWG cables for control circuit solid • for control circuit solid	width	170 mm
• forwards • backwards • upwards • upwards • at the side • at the side • for main current circuit • with conductor cross-section = 0.5 mm² maximum • with conductor cross-section = 2.5 mm² maximum • with conductor cross-section = 0.5 mm² maximum • for main current circuit • for main current circuit • for control circuit • with conductor cross-section = 0.5 mm² maximum • for main contacts - solid - for main current circuit solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) • for AWG cables for main current 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) • for control circuit finely stranded with core end processing • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) • for AWG cables for control circuit solid 1x (20 12), 2x (20 14) wire length • between soft starter and motor maximum	depth	152 mm
backwards upwards upwards downwards downwards at the side 5 mm weight without packaging Connections/ Terminals type of electrical connection • for control circuit • with conductor cross-section = 0.5 mm² maximum • 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-section = 2.5 mm² maximum • 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 • for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid • for between soft starter and motor maximum ### Condition of the maximum in the	required spacing with side-by-side mounting	
 upwards downwards at the side 5 mm 2.6 kg Connections/ Terminals type of electrical connection for main current circuit screw-type terminals 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-section = 2.5 mm² maximum for main contacts for main contacts for main contacts for AWG cables for main current circuit solid for control circuit solid for control circuit solid for control circuit solid for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for AWG cables for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²) for AWG cables for control circuit solid 1x (20 12), 2x (20 14) wire length between soft starter and motor maximum 	forwards	10 mm
odwnwards o at the side ometight without packaging 2.6 kg Connections/ Terminals type of electrical connection ofor main current circuit ofor control circuit ofor control circuit owith conductor cross-section = 0.5 mm² maximum owith conductor cross-section = 1.5 mm² maximum owith conductor cross-section = 2.5 mm² maximum owith conductor cross-sections ofor main contacts	backwards	0 mm
• at the side 5 mm weight without packaging 2.6 kg Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • for control circuit screw-type terminals wire length for thermistor connection • with conductor cross-section = 0.5 mm² maximum screw-type terminals • with conductor cross-section = 1.5 mm² maximum screw-type terminals • with conductor cross-section = 1.5 mm² maximum screw-type terminals • with conductor cross-section = 2.5 mm² maximum screw-type terminals • with conductor cross-section = 2.5 mm² maximum screw-type terminals • with conductor cross-section = 2.5 mm² maximum screw-type terminals • for main contacts - solid - finely stranded with core end processing • for AWG cables for main current circuit solid 2x (1.0 2.5 mm²), 2x (2.5 10 mm²) 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 finely stranded with core end processing • for AWG cables for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 1.5 mm²) • for AWG cables for control circuit solid 1x (20 12), 2x (20 14) wire length • between soft starter and motor maximum	• upwards	100 mm
weight without packaging 2.6 kg Connections/ Terminals type of electrical connection	downwards	75 mm
type of electrical connection	at the side	5 mm
type of electrical connection • for main current circuit • for control 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 • for main contacts - solid - solid - finely stranded with core end processing • for AWG cables for main current circuit solid type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • for AWG cables for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) wire length • between soft starter and motor maximum 800 m	weight without packaging	2.6 kg
 for main current circuit for control circuit screw-type terminals 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 type of connectable conductor cross-sections for main contacts solid finely stranded with core end processing 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 control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for control circuit finely stranded with core end processing for AWG cables for control circuit solid for AWG cables for control circuit solid for Sampa, 2x (0.5 2.5 mm²) for AWG cables for control circuit solid for AWG cables for control circuit solid for Sampa, 2x (0.5 1.5 mm²) for AWG cables for control circuit solid for Sampa, 2x (0.5 1.5 mm²) for AWG cables for control circuit solid for Sampa, 2x (0.5 1.5 mm²) <li< td=""><td>Connections/ Terminals</td><td></td></li<>	Connections/ Terminals	
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 with connectable conductor cross-sections	type of electrical connection	
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type of connectable conductor cross-sections • for main contacts — solid — finely stranded with core end processing • for AWG cables for main current circuit solid type of connectable conductor cross-sections • 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 • for AWG cables for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) wire length • between soft starter and motor maximum	 with conductor cross-section = 1.5 mm² maximum 	150 m
 for main contacts — solid — finely stranded with core end processing for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) wire length between soft starter and motor maximum 800 m 	• with conductor cross-section = 2.5 mm² maximum	250 m
- solid - finely stranded with core end processing of rAWG cables for main current circuit solid type of connectable conductor cross-sections of ro control circuit solid for control circuit finely stranded with core end processing of ror AWG cables for control circuit solid 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) wire length between soft starter and motor maximum 800 m	type of connectable conductor cross-sections	
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 for AWG cables for main current circuit solid type of connectable conductor cross-sections for control circuit solid for control circuit finely stranded with core end processing for AWG cables for control circuit solid for AWG cables for control circuit solid for AWG cables for control circuit solid wire length between soft starter and motor maximum 800 m 	— 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 processing • for AWG cables for control circuit solid tx (0.5 4.0 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14) wire length • between soft starter and motor maximum 800 m	 finely stranded with core end processing 	2x (1.0 2.5 mm²), 2x (2.5 6.0 mm²)
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for AWG cables for control circuit solid 1x (20 12), 2x (20 14) wire length between soft starter and motor maximum 800 m	 for control circuit solid 	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
wire length ● between soft starter and motor maximum 800 m	• for control circuit finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
• between soft starter and motor maximum 800 m	 for AWG cables for control circuit solid 	1x (20 12), 2x (20 14)
	wire length	
• at the digital inputs at DC maximum 1 000 m	 between soft starter and motor maximum 	800 m
	 at the digital inputs at DC maximum 	1 000 m

# communication contacts with screw type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control control contacts with screw-type terminals # for auxiliary and control contacts with screw-type terminals # for auxiliary and control co		
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- during operation according to IEC 60721 - during storage according to IEC 60721 - during storage according to IEC 60721 - during transport according to IEC 60721 - during transport according to IEC 60721 - during transport according to IEC 60721 - Environmental footprint - Siemens Eco Profite (SEP) - Sieme	during storage and transport	-40 +80 °C
sand must not get into the devices), 3M6	environmental category	
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- usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL - usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 60/480 V at inside-delta circuit at 50 °C rated value • at 60/480 V at inside-delta circuit at 50 °C rated value • at 60/480 V at inside-delta circuit at 50 °C rated value • at 60/480 V at inside-delta circuit at 50 °C rated value • at 60/480 V at inside-delta circuit at 50 °C rated value • at 60/480 V at inside-delta circuit at 50 °C rated value • at 60/480 V at inside-delta circuit at 50 °C rated value • at 60/480 V at inside-delta circuit at 50 °C rated value • at 60/480 V at inside-delta circuit at 50 °C rated value • at 60/480 V at inside-delta circuit at 50 °C rated value • at 60/480 V at inside-delta circuit at 50 °C rated value • at 60/480 V at inside-delta circuit at 50 °C rated value • at 60/4		Type: Class J / L, max. 125 A; Iq = 100 kA
— usable for High Faults at inside-delta circuit up to 575/600 V according to UL operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value Contact rating of auxiliary contacts according to UL R300-B300 Electrical Safety 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 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating	usable for Standard Faults at inside-delta circuit up	Type: Class RK5 / K5, max. 125 A; Iq = 5 kA
operating power [hp] for 3-phase motors • at 200/208 V at 50 °C rated value • at 220/230 V at 50 °C rated value • at 460/480 V at 50 °C rated value • at 200/208 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 460/480 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • at 220/230 V at inside-delta circuit at 50 °C rated value • a	usable for High Faults at inside-delta circuit up to	Type: Class J / L, max. 125 A; Iq = 100 kA
at 200/208 V at 50 °C rated value at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL R300-B300 Electrical Safety 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 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating SIL1		
at 220/230 V at 50 °C rated value at 460/480 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating SIL1		7.5 hp
at 200/208 V at inside-delta circuit at 50 °C rated value at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL R300-B300 Electrical Safety 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 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating SIL1	• at 220/230 V at 50 °C rated value	10 hp
at 220/230 V at inside-delta circuit at 50 °C rated value at 460/480 V at inside-delta circuit at 50 °C rated value contact rating of auxiliary contacts according to UL Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating SIL1	• at 460/480 V at 50 °C rated value	20 hp
◆ at 460/480 V at inside-delta circuit at 50 °C rated value Contact rating of auxiliary contacts according to UL R300-B300 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating SIL1	• at 200/208 V at inside-delta circuit at 50 °C rated value	15 hp
contact rating of auxiliary contacts according to UL Electrical Safety 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 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating SIL1	• at 220/230 V at inside-delta circuit at 50 °C rated value	15 hp
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 ATEX Safety Integrity Level (SIL) according to IEC 61508 relating SIL1	• at 460/480 V at inside-delta circuit at 50 °C rated value	30 hp
protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front ATEX Safety Integrity Level (SIL) according to IEC 61508 relating SIL1	contact rating of auxiliary contacts according to UL	·
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front ATEX Safety Integrity Level (SIL) according to IEC 61508 relating SIL1	Electrical Safety	
ATEX Safety Integrity Level (SIL) according to IEC 61508 relating SIL1	protection class IP on the front according to IEC 60529	IP20
Safety Integrity Level (SIL) according to IEC 61508 relating SIL1	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
	ATEX	
		SIL1

PFHD with high demand rate according to IEC 61508 relating to ATEX	5E-7 1/h
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
hardware fault tolerance according to IEC 61508 relating to ATEX	0
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
certificate of suitability	
• ATEX	Yes
• IECEx	Yes
 according to ATEX directive 2014/34/EU 	BVS 18 ATEX F 003 X
type of protection according to ATEX directive 2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]

Approvals Certificates

General Product Approval









Confirmation



General Product Approval

EMV

For use in hazardous locations

Test Certificates





<u>KC</u>





Type Test Certificates/Test Report

Marine / Shipping







Confirmation

other



Environment



Environment



Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5516-1HA14

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5516-1HA14}}$

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW5516-1HA14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5516-1HA14&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

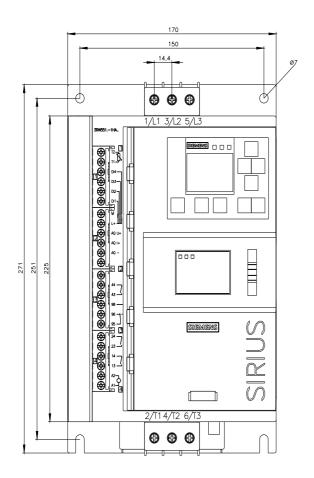
https://support.industry.siemens.com/cs/ww/en/ps/3RW5516-1HA14/char

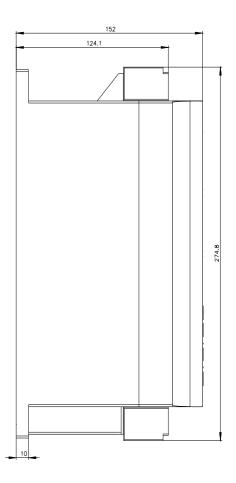
Characteristic: Installation altitude

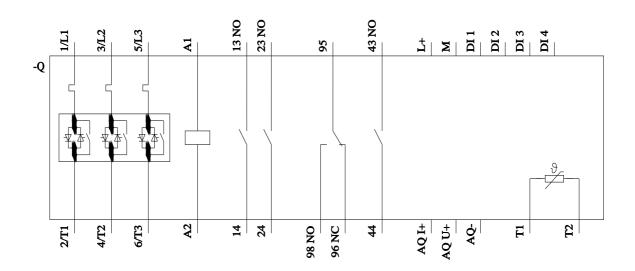
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5516-1HA14&objecttype=14&gridview=view1

Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917







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