SIEMENS

3RW5525-3HF14 **Data sheet**



SIRIUS soft starter 200-480 V 63 A, 110-250 V AC, spring-type terminals Fail-safe

Figure similar

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Failsafe soft starters
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	3VA2163-7MN32-0AA0; Type of coordination 1, lq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V	3VA2163-7MN32-0AA0; Type of coordination 1, lq = 20 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2110-7MN32-0AA0; Type of coordination 1, lq = 65 kA, CLASS 10
• of circuit breaker usable at 500 V at inside-delta circuit	3VA2110-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
• of the gG fuse usable up to 690 V	3NA3830-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3830-6; Type of coordination 1, Iq = 65 kA
• of full range R fuse link for semiconductor protection usable up to 690 V	3NE1022-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3227; Type of coordination 2, Iq = 65 kA
 of the redundant contactor for applications > SIL 1 according to EN 62061 	<u>3RT2046</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN 62061 	<u>3RT2046</u>
 of the redundant contactor for applications > SIL 1 according to EN ISO 13849-1 	<u>3RT1055</u>
 of the redundant contactor for applications > SIL 1 at inside-delta circuit according to EN ISO 13849-1 	<u>3RT1055</u>
eneral 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	- (-1300 oo oo
• CE marking	Yes
UL approval	Yes
CSA approval	Yes
product component	103
HMI-High Feature	Yes
-	Yes
is supported HMI-High Feature product feature integrated bypass contact system	Yes
. , , , , , , , , , , , , , , , , , , ,	3
number of controlled phases trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2
•	10 60 %
current unbalance limiting value [%]	10 95 %
ground-fault monitoring limiting value [%]	10 95 %
buffering time in the event of power failure	100 mg
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	1 400 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
vibration resistance	15 mm up to 6 Hz; 2 g up to 500 Hz
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)	11/22/2019
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
-	Yes
via software parameterizable via software configurable	Yes
via software configurable corou terminal	
screw terminal	No
e spring loaded terminal	Vac
spring-loaded terminalPROFlenergy	Yes Yes; in connection with the PROFINET Standard and PROFINET High-Feature

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
-	Yes
automatic parameterisationapplication wizards	Yes
alternative run-down	Yes
	Yes
emergency operation mode	Yes
reversing operation activating at hoovy starting conditions.	Yes
soft starting at heavy starting conditions	fes
Power Electronics	
operational current	C2 A
 at 40 °C rated value at 40 °C rated value minimum 	63 A 13 A
at 40 °C rated value minimum at 50 °C rated value	55.5 A
	50.5 A
at 60 °C rated value	30.3 A
operational current at inside-delta circuit • at 40 °C rated value	109 A
at 40 °C rated value at 50 °C rated value	96 A
at 60 °C rated value at 60 °C rated value	87.5 A
	07.5 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	-15 %
inside-delta circuit	
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
 at 230 V at 40 °C rated value 	18.5 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	30 kW
 at 400 V at 40 °C rated value 	30 kW
at 400 V at inside-delta circuit at 40 °C rated value	55 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	40 W
• at 40 °C after startup	19 W
• at 50 °C after startup	17 W
at 60 °C after startup	15 W
power loss [W] at AC at current limitation 350 %	4.0FC.W
• at 40 °C during startup	1 056 W
at 50 °C during startup at 60 °C during startup	732 W 647 W
at 60 °C during startup type of the motor protection	
type of the motor protection Control circuit/ Control	Electronic, tripping in the event of thermal overload of the motor
	AC
type of voltage of the control supply voltage control supply voltage at AC	AC
control supply voltage at AC	
a at 50 Hz	110 250 \/
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
at 60 Hz relative negative tolerance of the control supply voltage at AC at 50 Hz	110 250 V -15 %
at 60 Hz relative negative tolerance of the control supply voltage at	110 250 V

AC at 60 Hz	
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 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 standby mode rated value	100 mA
holding current in bypass operation rated value	180 mA
inrush current by closing the bypass contacts maximum	0.8 A
inrush current peak at application of control supply voltage maximum	43 A
duration of inrush current peak at application of control supply voltage	1.6 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	4
with fail-safe	1
parameterizable	4
number of digital outputs	3
Number of digital outputs with fail-safe	1
number of digital outputs parameterizable	2
number of digital outputs not parameterizable	1
digital output version	2 normally-open contacts (NO) / 1 normally-closed contact (NC) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
• at DC-13 at 24 V rated value	1 A
Response times	
OFF-delay time with safety-related request when switched off via control inputs maximum	100 ms
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)
fastening method	screw fixing
height	306 mm
width	185 mm
depth	203 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	5.9 kg
Connections/ Terminals	V.O 119
type of electrical connection • for main current circuit	box terminal
for control circuit	
	spring-loaded terminals 25 mm
wird langth for thermister connection	25 11111
with conductor cross section = 0.5 mm² maximum	50 m
with conductor cross-section = 0.5 mm² maximum with conductor cross-section = 1.5 mm² maximum	50 m
with conductor cross-section = 1.5 mm² maximum with conductor cross-section = 2.5 mm² maximum	150 m
with conductor cross-section = 2.5 mm² maximum	
	250 m
for main contacts for box terminal using the front clamping point solid.	250 m 1x (2.5 16 mm²)

 for main contacts for box terminal using the front clamping point stranded 	1x (10 70 mm²)
for main contacts for box terminal using the back clamping point solid	1x (2.5 16 mm²)
for AWG cables for main contacts for box terminal using the back clamping point	1x (10 2/0)
for main contacts for box terminal using both clamping points solid	2x (2.5 16 mm²)
for main contacts for box terminal using both clamping points finely stranded with core end processing	2x (2.5 35 mm²)
for main contacts for box terminal using both clamping points stranded	2x (6 16 mm²), 2x (10 50 mm²)
 for main contacts for box terminal using the back clamping point finely stranded with core end processing 	1x (2.5 50 mm²)
 for main contacts for box terminal using the back clamping point stranded 	1x (10 70 mm²)
type of connectable conductor cross-sections	
for control circuit solid	2x (0.25 1.5 mm²)
 for control circuit finely stranded with core end processing 	2x (0.25 1.5 mm²)
 for AWG cables for control circuit solid 	2x (24 16)
 for AWG cables for control circuit finely stranded with core end processing 	2x (24 16)
wire length	
 between soft starter and motor maximum 	800 m
at the digital inputs at DC maximum	1 000 m
tightening torque	
for main contacts with screw-type terminals	4.5 6 N·m
for auxiliary and control contacts with screw-type	0.8 1.2 N·m
terminals	0.0 1.2
tightening torque [lbf·in]	
 for main contacts with screw-type terminals 	40 53 lbf·in
 for auxiliary and control contacts with screw-type 	7 10.3 lbf·in
terminals	
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m; Derating as of 1000 m, see catalog
installation altitude at height above sea level maximum ambient temperature	2 000 m; Derating as of 1000 m, see catalog
	2 000 m; Derating as of 1000 m, see catalog -25 +60 °C; Please observe derating at temperatures of 40 °C or above
ambient temperature	
ambient temperature • during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or above
ambient temperatureduring operationduring storage and transport	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2
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ambient temperature	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
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ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A, Class B on request Yes Yes Yes Yes
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ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at inside-	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A, Class B on request Yes Yes Yes Yes Yes Yes Siemens type: 3RV2742, max. 70 A or 3VA51, max. 125 A; Iq = 10 kA Siemens type: 3VA51, max. 125 A; Iq max = 65 kA
ambient temperature • during operation • during storage and transport environmental category • during operation according to IEC 60721 • during storage according to IEC 60721 • during transport according to IEC 60721 EMC emitted interference Communication/ Protocol communication module is supported • PROFINET standard • PROFINET high-feature • EtherNet/IP • Modbus RTU • Modbus RTU • Modbus TCP • PROFIBUS UL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V according to UL — usable for Standard Faults at 460/480 V at insidedelta circuit according to UL — usable for High Faults at 460/480 V at insidedelta circuit according to UL — usable for High Faults at 460/480 V at insidedelta	-25 +60 °C; Please observe derating at temperatures of 40 °C or above -40 +80 °C 3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) acc. to IEC 60947-4-2: Class A, Class B on request Yes Yes Yes Yes Yes Yes Yes

pirquit apparding to LII	
circuit according to UL	Oir manner have at 01/454 many 405 At large 40 LA
 usable for Standard Faults at 575/600 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 125 A; Iq = 10 kA
• of the fuse	
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 200 A; Iq = 10 kA
 — usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 225 A; Iq = 100 kA
 usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 200 A; Iq = 10 kA
— usable for High Faults at inside-delta circuit up to 575/600 V according to UL	Type: Class J / L, max. 225 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
 at 200/208 V at 50 °C rated value 	15 hp
 at 220/230 V at 50 °C rated value 	20 hp
 at 460/480 V at 50 °C rated value 	40 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	30 hp
 at 220/230 V at inside-delta circuit at 50 °C rated value 	30 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	75 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
safety device type according to IEC 61508-2	Type B
B10d value	1 000 000
Safety Integrity Level (SIL)	
according to IEC 61508	SIL1
SIL Claim Limit (subsystem) according to EN 62061	SIL 1
performance level (PL) according to EN ISO 13849-1	С
category according to EN ISO 13849-1	2
stop category according to EN 60204-1	0
Safe failure fraction (SFF)	60 %
average diagnostic coverage level (DCavg)	90 %
diagnostics test interval by internal test function maximum	1 000 s
PFHD with high demand rate according to EN 62061	1E-6 1/h
PFDavg with low demand rate according to IEC 61508	0.09
hardware fault tolerance according to IEC 61508	0
T1 value for proof test interval or service life according to IEC 61508	20 a
safe state	Open load circuit
protection class IP on the front according to IEC 60529	IP00: IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
electromagnetic compatibility	acc. to IEC 60947-4-2
ATEX	acc. to IEG 00347-4-2
certificate of suitability • ATEX	Voc
IECEX	Yes Yes
	BVS 18 ATEX F 003 X
according to ATEX directive 2014/34/EU 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)
hardware fault tolerance according to IEC 61508 relating to ATEX	[Ex db Mb] 0
PFDavg with low demand rate according to IEC 61508 relating to ATEX	0.008
PFHD with high demand rate according to EN 62061 relating to ATEX	5E-7 1/h
Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX	SIL1
T1 value for proof test interval or service life according to IEC 61508 relating to ATEX	3 a
Certificates/ approvals	
General Product Approval	





Confirmation







EMC

For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping

Llov Regis



Confirmation

other

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RW5525-3HF14

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW5525-3HF14}\\$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5525-3HF14

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5525-3HF14\&lang=en}}$

Characteristic: Tripping characteristics, I²t, Let-through current

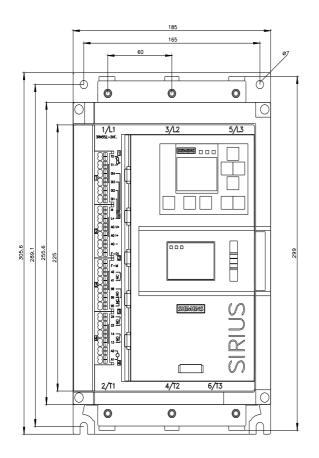
https://support.industry.siemens.com/cs/ww/en/ps/3RW5525-3HF14/char

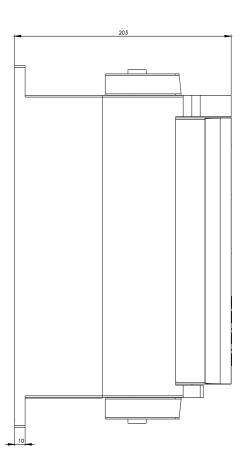
Characteristic: Installation altitude

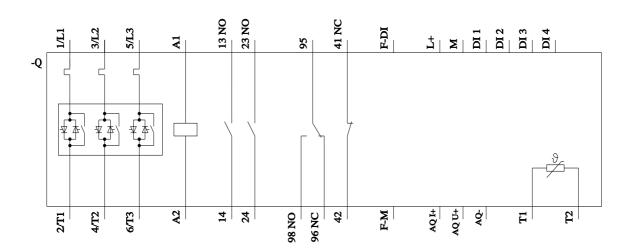
 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5525-3HF14\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

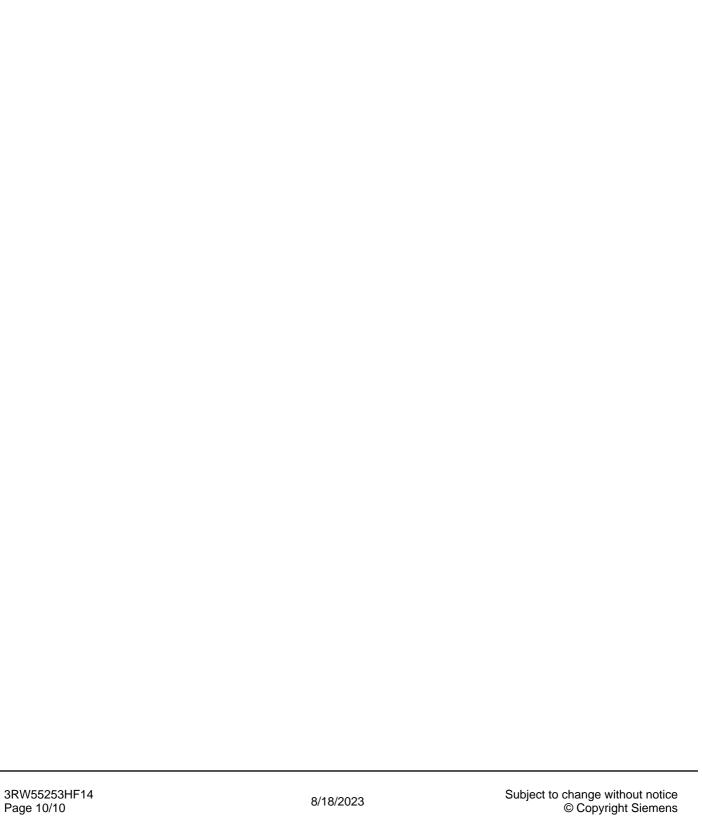
https://support.industry.siemens.com/cs/ww/en/view/101494917







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