SIEMENS

Data sheet

3RS7020-1ET00



Separation amplifier Loop power isolator, 1-channel input: 4-20 mA output: 4-20 mA Width 6.2 mm screw terminal

product brand name SiRUS product category Signal converters design of the product passive product type designation Sirgle-range converters design of the product passive general technical data		
product designation Single-range converters design of the product passive product type designation 3RS70 General technical data	product brand name	SIRIUS
design of the product passive product type designation 3RS70 General technical data	product category	Signal converter
product type designation 3RS70 General technical data	product designation	Single-range converters
General technical data display version LED No number of channels 1 insulation voltage for overvoltage category III according to IEC 50 V 60664 with degree of pollution 3 rated value 50 V voltage drop at operating equipment 4.1 V surge voltage resistance rated value 1 500 V protection class IP IP20 shock resistance according to IEC 60068-2:27 sinusoidal half-wave 15g / 11 ms reference code according to IEC 60068-2:27 sinusoidal half-wave 15g / 11 ms reference code according to IEC 60068-2:27 sinusoidal half-wave 15g / 11 ms reference code according to IEC 60068-2:27 T Substance Prohibitance (Date) 03/25/2015 Precision 0.1 % temporature drift per °C 0.015 %/°C voltage ripple maximum 5 mV settling time for 1 % deviation 6 ms Inputs/ Outputs Inputs/ Outputs input voltage 30 V property of the output short-circuit proof No type of signal at output 4 20 mA tipput Impedance of current input maximum 1	design of the product	passive
display version LED No number of channels 1 insulation voltage for overvoltage category III according to IEC 50 V 00664 with degree of polution 3 rated value 50 V voltage drop at operating equipment 4.1 V surge voltage resistance rated value 1 500 V protection class IP IP20 shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms reference code according to IEC 81346-2 T Substance Prohibitance (Date) 03/25/2015 Precision 0.1 % temperature drift per °C 0.015 %/°C voltage ripple maximum 5 mV settling time for 1 % deviation 6 ms input voltage 30 V property of the output short-circuit proof No type of signal at input 4 20 mA type of signal at output 4 20 mA input ioad • at the current output maximum 000 Ω 0.6 %/100 Ω Electromagnetic compatibility ENC emitted interference according to IEC 6100-4.4 • Auto to burst according to IEC 6100-4.4 1 kV s/50 ns • due to conductor-conductor surge according to IEC 6100-4.3 10 V/m	product type designation	3RS70
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surge voltage resistance rated value 1 500 V protection class IP IP20 shock resistance according to IEC 60068-2-27 sinuscidal half-wave 15g / 11 ms reference code according to IEC 81346-2 T Substance Prohibitance (Date) 03/25/2015 Precision 0.1 % relative metering precision 0.1 % temperature drift per °C 0.015 %/°C voltage ripple maximum 5 mV settling time for 1 % deviation 6 ms Inputs/ Outputs input voltage input voltage 30 V property of the output short-circuit proof No type of signal at input 4 20 mA tippet figure according to IEC 60947-1 Environment B e at the current output maximum 1000 Ω influence of the output load on measuring accuracy 0.06 %/100 Ω Electromagnetic compatibility Environment B EMC emitted interference according to IEC 60947-1 Environment B e due to burst according to IEC 6100-4-4 1 kV 5/50 ns • due to burst according to IEC 6100-4-4 1 kV • due to burst according to IEC 6100-4-3 10 V/m electrostat		50 V
Protection class IP IP20 shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms reference code according to IEC 81346-2 T Substance Prohibitance (Date) 03/25/2015 Precision 0.1 % temperature drift per *C 0.015 %/*C voltage ripple maximum 5 mV setting time for 1 % deviation 6 ms Inputs/ Outputs input voltage input voltage 30 V property of the output short-circuit proof No type of signal at input 4 20 mA type of signal at output 4 20 mA input voltade 0.00 Ω output load 0.00 Ω e at the current output maximum 1000 Ω influence of the output load on measuring accuracy 0.06 %/100 Ω Electromagnetic compatibility Environment B EMC immunity according to IEC 60947-1 corresponds to degree of severity 3 conducted interference 0 kU v 5/50 ns • due to burst according to IEC 61000-4-4 1 kV • due to burst according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV	voltage drop at operating equipment	4.1 V
shock resistance according to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms reference code according to IEC 81346-2 T Substance Prohibitance (Date) 03/25/2015 Precision 0.1 % temperature drift per °C 0.015 %/°C voltage ripple maximum 5 mV settling time for 1 % deviation 6 ms Inputs/Outputs input voltage property of the output short-circuit proof No type of signal at input 4 20 mA type of signal at output 4 20 mA input load 0.00 Ω output load 0.00 Ω e at the current output maximum 1000 Ω Influence of the output load on measuring accuracy 0.06 %/100 Ω Electromagnetic compatibility Environment B conducted interference according to IEC 60947-1 Environment B environment B corresponds to degree of severity 3 conducted interference 1 kV 5/50 ns • due to burst according to IEC 61000-4-3 1 kV • due to burst according to IEC 61000-4-3 1 kV electorostatic discharge according to IEC 61000-4-2	surge voltage resistance rated value	1 500 V
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Precision 0.1 % relative metering precision 0.1 % temperature drift per °C 0.015 %/°C voltage ripple maximum 5 mV setting time for 1 % deviation 6 ms Inputs/Outputs input voltage input voltage 30 V property of the output short-circuit proof No type of signal at input 4 20 mA type of signal at output 4 20 mA input impedance of current input maximum 100 Ω output load 0.06 %/100 Ω e at the current output maximum 0.06 %/100 Ω Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 Environment B EMC immunity according to IEC 61000-4-4 1 kV 5/50 ns • due to burst according to IEC 61000-4-4 1 kV 5/50 ns • due to conductor-conductor surge according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-3 10 V/m	reference code according to IEC 81346-2	Т
relative metering precision 0.1 % temperature drift per °C 0.015 %/°C voltage ripple maximum 5 mV settling time for 1 % deviation 6 ms Inputs/ Outputs input voltage input voltage 30 V property of the output short-circuit proof No type of signal at input 4 20 mA type of signal at output 4 20 mA input impedance of current input maximum 100 Ω output load - • at the current output maximum 1000 Ω influence of the output load on measuring accuracy 0.06 %/100 Ω Electromagnetic compatibility Environment B EMC immunity according to IEC 60947-1 Environment B eMc to burst according to IEC 61000-4-4 1 kV 5/50 ns • due to burst according to IEC 61000-4-4 1 kV 5/50 ns • due to conductor-conductor surge according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge	Substance Prohibitance (Date)	03/25/2015
temperature drift per °C 0.015 %/°C voltage ripple maximum 5 mV settling time for 1 % deviation 6 ms Inputs/ Outputs inputs/ Outputs input voltage 30 V property of the output short-circuit proof No type of signal at input 4 20 mA type of signal at output 4 20 mA input impedance of current input maximum 100 Ω output load - • at the current output naximum 0.06 %/100 Ω Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 Environment B e due to burst according to IEC 61000-4-4 1 kV 5/50 ns • due to burst according to IEC 61000-4-4 1 kV • due to conductor-conductor surge according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge	Precision	
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settling time for 1 % deviation 6 ms Inputs/ Outputs input voltage 30 V property of the output short-circuit proof No type of signal at input 4 20 mA type of signal at output 4 20 mA 4 20 mA type of signal at output 4 20 mA input impedance of current input maximum 100 Ω 00 Ω 00 Ω 00 Ω output load 0.06 %/100 Ω Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 Environment B EMC emitted interference 0.06 Corresponds to degree of severity 3 Corducted interference • due to burst according to IEC 61000-4-4 1 kV 5/50 ns 1 kV • due to conductor-conductor surge according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge	temperature drift per °C	0.015 %/°C
Inputs/Outputs input voltage 30 V property of the output short-circuit proof No type of signal at input 4 20 mA type of signal at output 4 20 mA input impedance of current input maximum 100 Ω output load	voltage ripple maximum	5 mV
input voltage 30 V property of the output short-circuit proof No type of signal at input 4 20 mA type of signal at output 4 20 mA input impedance of current input maximum 100 Ω output load	settling time for 1 % deviation	6 ms
property of the output short-circuit proof No type of signal at input 4 20 mA type of signal at output 4 20 mA input impedance of current input maximum 100 Ω output load	Inputs/ Outputs	
type of signal at input 4 20 mA type of signal at output 4 20 mA input impedance of current input maximum 100 Ω output load 100 Ω • at the current output maximum 1 000 Ω influence of the output load on measuring accuracy 0.06 %/100 Ω Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC emitted interference according to IEC 60947-1 Environment B conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-conductor surge according to IEC 61000-4-3 1 kV 5/50 ns field-based interference according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge	input voltage	30 V
type of signal at output 4 20 mA input impedance of current input maximum 100 Ω output load	property of the output short-circuit proof	No
input impedance of current input maximum 100 Ω output load 100 Ω • at the current output maximum 1 000 Ω influence of the output load on measuring accuracy 0.06 %/100 Ω Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1 Environment B EMC immunity according to IEC 61000-4-4 1 kV 5/50 ns • due to burst according to IEC 61000-4-4 1 kV 5/50 ns • due to conductor-conductor surge according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge	type of signal at input	4 20 mA
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• at the current output maximum1 000 Ωinfluence of the output load on measuring accuracy0.06 %/100 ΩElectromagnetic compatibilityEMC emitted interference according to IEC 60947-1Environment BEMC immunity according to IEC 60947-1corresponds to degree of severity 3conducted interference• due to burst according to IEC 61000-4-41 kV 5/50 ns• due to conductor-conductor surge according to IEC 61000-4-310 V/mfield-based interference according to IEC 61000-4-26 kV contact discharge / 8 kV air discharge	input impedance of current input maximum	100 Ω
influence of the output load on measuring accuracy 0.06 %/100 Ω Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 Environment B EMC immunity according to IEC 60947-1 corresponds to degree of severity 3 conducted interference e due to burst according to IEC 61000-4-4 1 kV 5/50 ns • due to conductor-conductor surge according to IEC 61000-4-3 1 kV field-based interference according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge	output load	
Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 Environment B EMC immunity according to IEC 60947-1 corresponds to degree of severity 3 conducted interference • due to burst according to IEC 61000-4-4 1 kV 5/50 ns • due to conductor-conductor surge according to IEC 61000-4-3 1 kV field-based interference according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge	 at the current output maximum 	1 000 Ω
EMC emitted interference according to IEC 60947-1 Environment B EMC immunity according to IEC 60947-1 corresponds to degree of severity 3 conducted interference • due to burst according to IEC 61000-4-4 1 kV 5/50 ns • due to conductor-conductor surge according to IEC 61000-4-5 1 kV field-based interference according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge	influence of the output load on measuring accuracy	0.06 %/100 Ω
EMC immunity according to IEC 60947-1 corresponds to degree of severity 3 conducted interference • due to burst according to IEC 61000-4-4 1 kV 5/50 ns • due to conductor-conductor surge according to IEC 61000-4-5 1 kV field-based interference according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge	Electromagnetic compatibility	
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• due to burst according to IEC 61000-4-4 1 kV 5/50 ns • due to conductor-conductor surge according to IEC 61000-4-5 1 kV field-based interference according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge	EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
• due to conductor-conductor surge according to IEC 61000-4-5 1 kV 1 kV	conducted interference	
61000-4-5 field-based interference according to IEC 61000-4-3 10 V/m electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge	-	1 kV 5/50 ns
electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge		1 kV
	field-based interference according to IEC 61000-4-3	10 V/m
Galvanic isolation	electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
	Galvanic isolation	
design of the electrical isolation 2 paths	design of the electrical isolation	2 paths

galvanic isolation between input and output between the outputs between the inputs between the voltage supply and other circuits Connections/ Terminals type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing for AWG cables solid connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid tightening torque with screw-type terminals mounting position fastening method	Yes No No No No 2 2 2 2 2 0 14 2 2 0 14 0.5 0.6 N·m 2 2 0.25 15 mm ² 2 2 0 14 0.5 15 mm ² 2 2 0 14 0.5 15 mm ² 2 0.25 15 mm ² 0.25 15 mm ²
 between the outputs between the inputs between the voltage supply and other circuits Connections/ Terminals type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing for AWG cables solid Connectable conductor cross-section solid finely stranded with core end processing a for AWG cables solid Connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position	No No No screw-type terminals 1x (0.25 2.5 mm ²) 1x (0.25 1.5 mm ²) 1 x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ² 20 14 0.5 0.6 N·m
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between the voltage supply and other circuits Connections/ Terminals type of electrical connection type of connectable conductor cross-sections solid finely stranded with core end processing for AWG cables solid connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid tightening torque with screw-type terminals nstallation/ mounting/ dimensions	No screw-type terminals 1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1 x (20 14) 0.25 2.5 mm² 0.25 1.5 mm² 20 14 0.5 0.6 N·m any snap-on mounting
Connections/ Terminals type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid tightening torque with screw-type terminals nstallation/ mounting/ dimensions mounting position	screw-type terminals 1x (0.25 2.5 mm²) 1x (0.25 1.5 mm²) 1 x (20 14) 0.25 2.5 mm² 0.25 1.5 mm² 20 14 0.5 0.6 N·m any snap-on mounting
type of electrical connection type of connectable conductor cross-sections • solid • finely stranded with core end processing • for AWG cables solid connectable conductor cross-section • solid • finely stranded with core end processing AWG number as coded connectable conductor cross section • solid tightening torque with screw-type terminals nstallation/ mounting/ dimensions mounting position	1x (0.25 2.5 mm ²) 1x (0.25 1.5 mm ²) 1 x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ² 20 14 0.5 0.6 N·m any snap-on mounting
type of connectable conductor cross-sections solid finely stranded with core end processing for AWG cables solid connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid tightening torque with screw-type terminals nstallation/ mounting/ dimensions	1x (0.25 2.5 mm ²) 1x (0.25 1.5 mm ²) 1 x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ² 20 14 0.5 0.6 N·m any snap-on mounting
 solid finely stranded with core end processing for AWG cables solid connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid tightening torque with screw-type terminals nstallation/ mounting/ dimensions mounting position 	1x (0.25 1.5 mm ²) 1 x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ² 20 14 0.5 0.6 N·m any snap-on mounting
 finely stranded with core end processing for AWG cables solid connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid tightening torque with screw-type terminals nstallation/ mounting/ dimensions 	1x (0.25 1.5 mm ²) 1 x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ² 20 14 0.5 0.6 N·m any snap-on mounting
for AWG cables solid connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid tightening torque with screw-type terminals nstallation/ mounting/ dimensions mounting position	1 x (20 14) 0.25 2.5 mm ² 0.25 1.5 mm ² 20 14 0.5 0.6 N·m any snap-on mounting
connectable conductor cross-section solid finely stranded with core end processing AWG number as coded connectable conductor cross section solid tightening torque with screw-type terminals nstallation/ mounting/ dimensions mounting position 	0.25 2.5 mm ² 0.25 1.5 mm ² 20 14 0.5 0.6 N·m any snap-on mounting
solid ifinely stranded with core end processing AWG number as coded connectable conductor cross section solid tightening torque with screw-type terminals nstallation/ mounting/ dimensions mounting position	0.25 1.5 mm ² 20 14 0.5 0.6 N·m any snap-on mounting
finely stranded with core end processing AWG number as coded connectable conductor cross section solid tightening torque with screw-type terminals nstallation/ mounting/ dimensions mounting position 	0.25 1.5 mm ² 20 14 0.5 0.6 N·m any snap-on mounting
AWG number as coded connectable conductor cross section • solid tightening torque with screw-type terminals nstallation/ mounting/ dimensions mounting position	20 14 0.5 0.6 N·m any snap-on mounting
section • solid tightening torque with screw-type terminals nstallation/ mounting/ dimensions mounting position	0.5 0.6 N·m any snap-on mounting
solid tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position	0.5 0.6 N·m any snap-on mounting
tightening torque with screw-type terminals Installation/ mounting/ dimensions mounting position	0.5 0.6 N·m any snap-on mounting
nstallation/ mounting/ dimensions mounting position	any snap-on mounting
mounting position	snap-on mounting
	snap-on mounting
fastening method	
height	93 mm
width	6.2 mm
depth	71 mm
required spacing	
 with side-by-side mounting 	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
 for grounded parts 	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
 for live parts 	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
 during storage 	-40 +80 °C
during transport	-40 +80 °C
relative humidity during operation	10 95 %
Approvals Certificates	
General Product Approval	
Test Certificates Marine / Shipping 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=3RS7020-1ET00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7020-1ET00

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

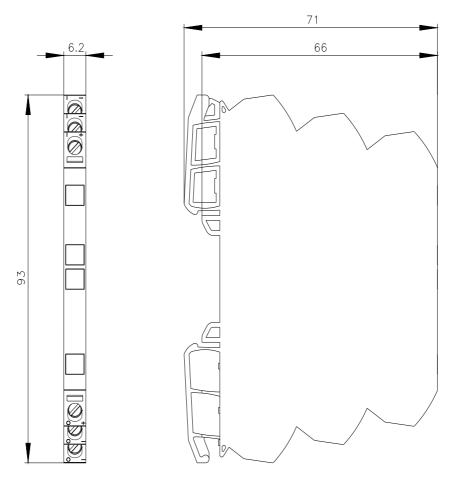
https://support.industry.siemens.com/cs/ww/en/ps/3RS7020-1ET00

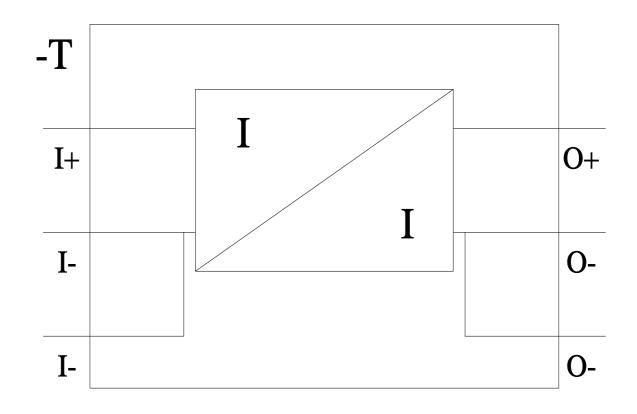
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7020-1ET00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS7020-1ET00/manual





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12/23/2020 🖸