SIEMENS

Data sheet

3RT1076-6AS36



power contactor, AC-3e/AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC Uc: 500-550 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
product extension	
 function module for communication 	No
 auxiliary switch 	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	165 W
 at AC in hot operating state per pole 	55 W
 without load current share typical 	10 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
● at DC	13,4g / 5 ms, 6,5g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	05/01/2012
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
 during storage 	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
 at AC-3 rated value maximum 	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	610 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	610 A
— up to 690 V at ambient temperature 60 °C rated value	550 A
— up to 1000 V at ambient temperature 40 °C rated value	200 A
— up to 1000 V at ambient temperature 60 °C rated value	200 A
• at AC-3	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
• at AC-4 at 400 V rated value	430 A
at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value	536 A 415 A
 at AC-5b up to 400 V rated value at AC-6a 	415 A
 at AC-ba — up to 230 V for current peak value n=20 rated 	414 A
value	
— up to 400 V for current peak value n=20 rated value	414 A
 — up to 500 V for current peak value n=20 rated value 	414 A
 — up to 690 V for current peak value n=20 rated value 	414 A
 — up to 1000 V for current peak value n=20 rated value 	180 A
• at AC-6a	070 4
— up to 230 V for current peak value n=30 rated value	276 A
— up to 400 V for current peak value n=30 rated value	276 A
— up to 500 V for current peak value n=30 rated value	276 A
— up to 690 V for current peak value n=30 rated value	276 A
 — up to 1000 V for current peak value n=30 rated value 	180 A 370 mm ²
minimum cross-section in main circuit at maximum AC-1 rated value	370 mm-
operational current for approx. 200000 operating cycles at AC-4	175 0
at 400 V rated value at 690 V rated value	175 A 150 A
at 690 V rated value operational current	
• at 1 current path at DC-1	
- at 24 V rated value	400 A
— at 60 V rated value	330 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A

Ι

 with 2 current paths in series at DC-1 	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	400 A
— at 60 V rated value	11 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
• with 2 current paths in series at DC-3 at DC-5	400.4
— at 24 V rated value	400 A
— at 60 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 	400 A
— at 60 V rated value	400 A 400 A
— at 110 V rated value	400 A 400 A
— at 220 V rated value	400 A 400 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	0.75 A
• at AC-3	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
• at AC-3e	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	98 kW
at 400 V rated value	148 kW
operating apparent power at AC-6a	140 KVV
• up to 230 V for current peak value n=20 rated value	160 000 kVA
• up to 400 V for current peak value n=20 rated value	280 000 VA
• up to 500 V for current peak value n=20 rated value	350 000 VA
• up to 690 V for current peak value n=20 rated value	490 000 VA
• up to 1000 V for current peak value n=20 rated	310 000 VA
value	0.0000
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	110 000 VA
• up to 400 V for current peak value n=30 rated value	190 000 VA
• up to 500 V for current peak value n=30 rated value	230 000 VA
 up to 690 V for current peak value n=30 rated value 	330 000 VA
 up to 1000 V for current peak value n=30 rated 	310 000 VA

short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	7 484 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	7 484 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	5 978 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	3 765 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	2 887 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	·
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	2000 m
	E00.1/b
• at AC-1 maximum	500 1/h
• at AC-2 maximum	170 1/h
• at AC-3 maximum	420 1/h
 at AC-3e maximum 	420 1/h
 at AC-4 maximum 	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
• at 50 Hz rated value	500 550 V
at 60 Hz rated value	500 550 V
control supply voltage at DC	
rated value	500 550 V
	500 550 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value of magnet coil at AC	
-	0.0 4.4
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	
• at 50 Hz	830 VA
• at 60 Hz	830 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	
• at 50 Hz	9.2 VA
• at 60 Hz	9.2 VA
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	920 W
holding power of magnet coil at DC	10 W
closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
opening delay	
• at AC	60 100 ms
• at DC	60 100 ms
	10 15 ms
arcing time	Standard A1 - A2
control version of the switch operating mechanism	
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
instantaneous contact	
number of NO contacts for auxiliary contacts	2
instantaneous contact	
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	6 A
 at 400 V rated value 	3 A
 at 500 V rated value 	2 A

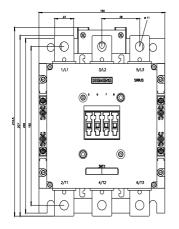
 at 690 V rated value 	1 A
operational current at DC-12	
 at 24 V rated value 	10 A
 at 48 V rated value 	6 A
 at 60 V rated value 	6 A
 at 110 V rated value 	3 A
 at 125 V rated value 	2 A
 at 220 V rated value 	1 A
 at 600 V rated value 	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
 at 48 V rated value 	2 A
at 60 V rated value	2 A
• at 110 V rated value	1A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	477 A
at 480 V rated value	477 A
• at 600 V rated value	472 A
yielded mechanical performance [hp]	
 for 3-phase AC motor 	
— at 200/208 V rated value	150 hp
— at 220/230 V rated value	200 hp
— at 460/480 V rated value	400 hp
— at 575/600 V rated value	500 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	
-	
 for short-circuit protection of the main circuit 	gG: 630 A (690 V, 100 kA)
 for short-circuit protection of the main circuit — with type of coordination 1 required 	gG: 630 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415
 for short-circuit protection of the main circuit 	
 for short-circuit protection of the main circuit — with type of coordination 1 required 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA)
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA)
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm
 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm
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 for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing 	gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm
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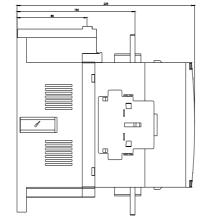
 for main current circuit 		Connection bar		
 for auxiliary and control circuit 		screw-type terminals		
 at contactor for auxiliary contacts 		Screw-type terminals		
 of magnet coil 		Screw-type terminals		
width of connection bar		25 mm		
thickness of connection bar		6 mm		
diameter of holes		11 mm		
number of holes		1		
connectable conductor cross-section for contacts	main			
 stranded 		70 240 mm²		
connectable conductor cross-section for a contacts	auxiliary			
 solid or stranded 		0.5 4 mm²		
 finely stranded with core end processir 	-	0.5 2.5 mm²		
type of connectable conductor cross-sect	tions			
 for auxiliary contacts 				
— solid		2x (0.5 1.5 mm²), 2x (0.7		
— solid or stranded		2x (0,5 1,5 mm²), 2x (0,7		(0,75 4 mm ²)
 finely stranded with core end proc 	cessing	2x (0.5 1.5 mm²), 2x (0.7		
at AWG cables for auxiliary contacts		2x (20 16), 2x (18 14),	1x 12	
AWG number as coded connectable cond	uctor cross			
 for auxiliary contacts 		18 14		
Safety related data		10 14	_	
product function				
mirror contact according to IEC 60947-	_1_1	Yes		
 positively driven operation according to 5-1 		No		
B10 value with high demand rate according t	o SN 31920	1 000 000		
T1 value for proof test interval or service life a IEC 61508		20 a		
			al/cover	
protection class IP on the front according 60529		IP00; IP20 with box termina		
		finger-safe, for vertical cont		box terminal/cover
60529 touch protection on the front according to suitability for use				box terminal/cover
60529 touch protection on the front according to suitability for use • safety-related switching OFF				box terminal/cover
60529 touch protection on the front according to suitability for use		finger-safe, for vertical cont		box terminal/cover
60529 touch protection on the front according to suitability for use • safety-related switching OFF		finger-safe, for vertical cont		box terminal/cover Functional Safety/Safety of Machinery
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval		finger-safe, for vertical cont	act from the front with I	Functional Safety/Safety of Machinery
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals		finger-safe, for vertical cont	act from the front with I	Functional Safety/Safety of Machinery Type Examination
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval		finger-safe, for vertical cont	act from the front with I	Functional Safety/Safety of Machinery
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval		finger-safe, for vertical cont	act from the front with I	Functional Safety/Safety of Machinery Type Examination
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval		finger-safe, for vertical cont	act from the front with I	Functional Safety/Safety of Machinery Type Examination
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval		finger-safe, for vertical cont	act from the front with I	Functional Safety/Safety of Machinery Type Examination
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval		finger-safe, for vertical cont Yes	act from the front with I	Functional Safety/Safety of Machinery Type Examination
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval Confirmation Declaration of Conformity	DIEC 60529	finger-safe, for vertical cont Yes ERE	EMC	Functional Safety/Safety of Machinery Type Examination
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval Confirmation Declaration of Conformity	Test Certifica	finger-safe, for vertical cont Yes ERE tites tific- Special Test Certific-	EMC	Functional Safety/Safety of Machinery Type Examination
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval Confirmation Declaration of Conformity CE	DIEC 60529	finger-safe, for vertical cont Yes ERE tites tific- Special Test Certific-	EMC	Functional Safety/Safety of Machinery Type Examination
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval Confirmation Declaration of Conformity	Test Certifica	finger-safe, for vertical cont Yes ERE tites tific- Special Test Certific-	EMC	Functional Safety/Safety of Machinery Type Examination
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval Confirmation Declaration of Conformity CE	Test Certifica	finger-safe, for vertical cont Yes ERE tites tific- Special Test Certific-	EMC	Functional Safety/Safety of Machinery Type Examination Certificate
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval Confirmation Declaration of Conformity CE	Test Certifica	finger-safe, for vertical cont Yes ERE tites tific- Special Test Certific-	EMC	Functional Safety/Safety of Machinery Type Examination Certificate
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval Confirmation Declaration of Conformity CE	Test Certifica	finger-safe, for vertical cont Yes ERE tites tific- Special Test Certific-	EMC	Functional Safety/Safety of Machinery Type Examination Certificate
60529 touch protection on the front according to suitability for use • safety-related switching OFF Certificates/ approvals General Product Approval Confirmation Confirmation	Test Certifica	finger-safe, for vertical cont Yes ERE ttes ttific- port Special Test Certific- ate	EMC EMC Marine / Shipping	Functional Safety/Safety of Machinery Type Examination Certificate
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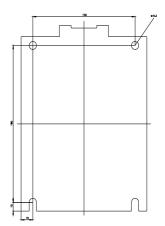
other	Railway	
<u>Miscellaneous</u>	Vibration and Shock	Special Test Certific- ate

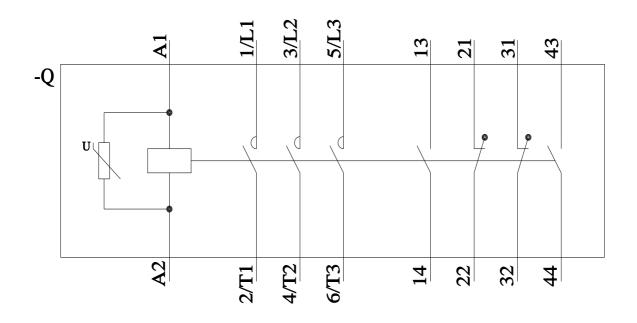
Further information	
Information on the packaging	
https://support.industry.siemens.com/cs/ww/e	<u>n/view/109813875</u>
Information- and Downloadcenter (Catalog	s, Brochures,)
https://www.siemens.com/ic10	
Industry Mall (Online ordering system)	
https://mall.industry.siemens.com/mall/en/en/	Catalog/product?mlfb=3RT1076-6AS36
Cax online generator	
http://support.automation.siemens.com/WW/C	CAXorder/default.aspx?lang=en&mlfb=3RT1076-6AS36
Service&Support (Manuals, Certificates, C	haracteristics, FAQs,)
https://support.industry.siemens.com/cs/ww/e	n/ps/3RT1076-6AS36
	nsion drawings, 3D models, device circuit diagrams, EPLAN macros,)
http://www.automation.siemens.com/bilddb/ca	<pre>ix_de.aspx?mlfb=3RT1076-6AS36⟨=en</pre>
Characteristic: Tripping characteristics, I ² t	
https://support.industry.siemens.com/cs/ww/e	<u>n/ps/3RT1076-6AS36/char</u>

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6AS36&objecttype=14&gridview=view1









last modified:

2/10/2023 🖸