## SIEMENS

## Data sheet

## 3RP2525-1AW30



Timing relay, electronic on-delay 1 change-over contact, 7 time ranges 0.05 s...100 h 12-240 V AC/DC at 50/60 Hz AC with LED, screw terminal

product brand name	SIRIUS
product designation	timing relay
design of the product	slow-operating
product type designation	3RP25
General technical data	
product component	
<ul> <li>relay output</li> </ul>	Yes
semi-conductor output	No
product extension required remote control	No
product extension optional remote control	No
power loss [W] maximum	2 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
test voltage for isolation test	2.5 kV
degree of pollution	3
surge voltage resistance rated value	4 000 V
protection class IP	IP20
shock resistance acc. to IEC 60068-2-27	11g / 15 ms
vibration resistance acc. to IEC 60068-2-6	10 55 Hz / 0.35 mm
mechanical service life (switching cycles) typical	10 000 000
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 s 100 h
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
recovery time	250 ms
reference code acc. to IEC 81346-2	К
relative repeat accuracy	1 %; +/-
influence of the surrounding temperature	1% in the whole temperature range to the set runtime
power supply influence	1% in the whole voltage range to the set runtime
Substance Prohibitance (Date)	12.09.2014
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
• at 50 Hz	12 240 V
• at 60 Hz	12 240 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	
● at DC	12 240 V
operating range factor control supply voltage rated	

signal/instantaneous contact <ul> <li>retriggerable with deactivated control signal</li> </ul> <li>Short-circuit protection <ul> <li>design of the fuse link for short-circuit protection of the auxiliary switch required</li> </ul> </li>	No fuse gL/gG: 4 A
retriggerable with deactivated control signal	No
-	No
signal/instantaneous contact	
<ul> <li>retrotriggerable with switched-on control</li> </ul>	No
retrotriggerable with switched-on control signal	No
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	No
switching function of interval relay with control signal	
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
passing make contact	No
ON-delay/OFF-delay/instantaneous	No
additive ON-delay/instantaneous	No
<ul> <li>pulse-shaping/instantaneous</li> </ul>	No
pulse-shaping	No
<ul> <li>pulse delayed</li> <li>pulse delayed</li> </ul>	No
pulse delayed	No
OFF delay/instantaneous	No
OFF delay	No
passing break contact/instantaneous	No
passing break contact	No
additive ON-delay	No
switching function with control signal	
<ul> <li>star-delta circuit with delay time</li> <li>star-delta circuit</li> </ul>	No
-	No
switching function	
<ul> <li>flashing asymmetrically with interval start</li> <li>flashing asymmetrically with pulse start</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start</li> <li>flashing asymmetrically with interval start</li> </ul>	No No
start/instantaneous	No
<ul> <li>flashing symmetrically with pulse</li> </ul>	No
<ul> <li>flashing symmetrically with interval start</li> </ul>	No
<ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	No
switching function	
• OFF delay	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
<ul> <li>passing make contact</li> </ul>	No
<ul> <li>ON-delay/instantaneous contact</li> </ul>	No
ON-delay	Yes
switching function	
Switching Function	
• at 240 V	0.5 ms
• at 24 V	0.3 ms
duration of inrush current peak	
• at 240 V	5 A
• at 24 V	0.4 A
inrush current peak	
• full-scale value	1.1
initial value	0.8
operating range factor control supply voltage rated value at AC at 60 Hz	
• full-scale value	_ 1.1
• initial value	0.8
value at AC at 50 Hz	
operating range factor control supply voltage rated	
full-scale value	1.1
initial value	0.8
value at DC	-

material of switching contacts	AgSnO2
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts delayed switching	1
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A
• at 250 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
operating frequency with 3RT2 contactor maximum	5 000 1/h
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5 mA) $$
contact rating of auxiliary contacts according to UL	R300 / B300
switching capacity current with inductive load	0.01 3 A
Inputs/ Outputs	
product function	
<ul> <li>at the relay outputs switchover delayed/without delay</li> </ul>	No
non-volatile	No
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 61812-1	ambience A (industrial sector)
EMC immunity acc. to IEC 61812-1	corresponds to degree of severity 3
conducted interference	corresponds to degree or sevenity 5
due to burst acc. to IEC 61000-4-4	2 kV network connection / 1 kV control connection
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
due to conductor-conductor surge acc. to IEC     61000-4-5	1 kV
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
Safety related data protection class IP on the front acc. to IEC 60529	IP20
	IP20 Basic insulation
protection class IP on the front acc. to IEC 60529	
protection class IP on the front acc. to IEC 60529 type of insulation	Basic insulation
protection class IP on the front acc. to IEC 60529 type of insulation category acc. to EN 954-1	Basic insulation
protection class IP on the front acc. to IEC 60529 type of insulation category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary	Basic insulation none
protection class IP on the front acc. to IEC 60529 type of insulation category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit	Basic insulation none Yes
protection class IP on the front acc. to IEC 60529 type of insulation category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit	Basic insulation none Yes
protection class IP on the front acc. to IEC 60529 type of insulation category acc. to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	Basic insulation none Yes screw-type terminals
protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> </ul>	Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )
protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing	Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )
protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections         • solid         • finely stranded with core end processing         • at AWG cables solid	Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14)
protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul>	Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14)
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protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section       solid         at AWG cables solid       at AWG cables stranded         connectable conductor cross-section       solid         AWG number as coded connectable conductor cross section	Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup>
protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section       solid         e at AWG cables stranded       connectable conductor cross-section         solid       finely stranded with core end processing         e solid       solid         e finely stranded with core end processing         e solid       solid         e solid       solid connectable conductor cross         e solid       solid	Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12
protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section       solid         e finely stranded with core end processing       at AWG cables stranded         connectable conductor cross-section       solid         e finely stranded with core end processing         AWG number as coded connectable conductor cross section         e solid       solid         e stranded	Basic insulation         none         Yes         screw-type terminals         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         1x (20 12), 2x (20 14)         1x (20 12), 2x (20 14)         0.5 4 mm²         0.5 4 mm²         20 12         20 12         20 12
protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section       solid         stranded with core end processing       solid         solid       stranded connectable conductor cross-section         solid       stranded with core end processing         AWG number as coded connectable conductor cross section       solid         stranded       tightening torque         design of the thread of the connection screw	Basic insulation         none         Yes         screw-type terminals $1x (0.5 4.0 \text{ mm}^2), 2x (0.5 2.5 \text{ mm}^2)$ $1x (0.5 4 \text{ mm}^2), 2x (0.5 1.5 \text{ mm}^2)$ $1x (20 12), 2x (20 14)$ $1x (20 12), 2x (20 14)$ $0.5 4 \text{ mm}^2$ $0.6 0.8 \text{ N·m}$
protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section       solid         e at AWG cables stranded       connectable conductor cross-section         solid       e at AWG cables stranded         connectable conductor cross-section       solid         e stranded with core end processing         AWG number as coded connectable conductor cross section         e solid       stranded with core end processing         AWG number as coded connectable conductor cross section         e solid       stranded         tightening torque         design of the thread of the connection screw         Installation/ mounting/ dimensions	Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 12 20 14 0.6 0.8 N·m M3
protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section       solid         e finely stranded with core end processing       solid         b finely stranded with core end processing       AWG cables stranded         connectable conductor cross-section       solid         b finely stranded with core end processing         AWG number as coded connectable conductor cross section       solid         b stranded       tightening torque         design of the thread of the connection screw       Installation/ mounting/ dimensions         mounting position       mounting position	Basic insulation none Yes screw-type terminals 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 12), 2x (20 14) 1x (20 12), 2x (20 14) 0.5 4 mm <sup>2</sup> 0.5 4 mm <sup>2</sup> 20 12 20 12 20 14 0.6 0.8 N⋅m M3
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protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section       solid         e finely stranded with core end processing       solid         b finely stranded with core end processing       solid         connectable conductor cross-section       solid               b finely stranded with core end processing               AWG number as coded connectable conductor cross section               b solid             stranded               b stranded             tightening torque               design of the thread of the connection screw               Installation/ mounting/ dimensions               mounting position               fastening method               height	Basic insulation         none         Yes         screw-type terminals         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         1x (20 12), 2x (20 14)         1x (20 12), 2x (20 14)         0.5 4 mm²         any         screw and snap-on mounting onto 35 mm standard mounting rail         100 mm
protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section <ul> <li>solid</li> <li>stranded</li> <li>solid</li> <li>stranded</li> </ul> tightening torque       design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position         fastening method         height         width	Basic insulation         none         Yes         screw-type terminals         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         1x (20 12), 2x (20 14)         1x (20 12), 2x (20 14)         0.5 4 mm²         0.5 4 mm²         20 12         20 14         0.6 0.8 N·m         M3         any         screw and snap-on mounting onto 35 mm standard mounting rail         100 mm         17.5 mm
protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section <ul> <li>solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section <ul> <li>solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section <ul> <li>solid</li> <li>stranded with core end processing</li> </ul> AWG number as coded connectable conductor cross section <ul> <li>solid</li> <li>stranded</li> <li>tightening torque</li> <li>design of the thread of the connection screw</li> </ul> Installation/ mounting/ dimensions           mounting position           fastening method               height           width           depth	Basic insulation         none         Yes         screw-type terminals         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         1x (20 12), 2x (20 14)         1x (20 12), 2x (20 14)         0.5 4 mm²         any         screw and snap-on mounting onto 35 mm standard mounting rail         100 mm
protection class IP on the front acc. to IEC 60529         type of insulation         category acc. to EN 954-1         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection for auxiliary and control circuit         type of connectable conductor cross-sections <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section <ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>at AWG cables stranded</li> </ul> connectable conductor cross-section <ul> <li>solid</li> <li>stranded</li> <li>solid</li> <li>stranded</li> </ul> tightening torque       design of the thread of the connection screw         Installation/ mounting/ dimensions         mounting position         fastening method         height         width	Basic insulation         none         Yes         screw-type terminals         1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)         1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         1x (20 12), 2x (20 14)         1x (20 12), 2x (20 14)         0.5 4 mm²         0.5 4 mm²         20 12         20 14         0.6 0.8 N·m         M3         any         screw and snap-on mounting onto 35 mm standard mounting rail         100 mm         17.5 mm

— backwards — upwards	8		0 mm 0 mm		
— downward	s		0 mm		
— at the side			0 mm		
<ul> <li>for grounded pa</li> </ul>			•		
— forwards			0 mm		
- backwards	6		0 mm		
— upwards			0 mm		
— at the side	•		0 mm		
— downward	s		0 mm		
<ul> <li>for live parts</li> </ul>					
— forwards			0 mm		
- backwards	3		0 mm		
— upwards			0 mm		
- downward	S		0 mm		
— at the side	1		0 mm		
mbient conditions					
installation altitude at	height above sea level	maximum	2 000 m		
ambient temperatur					
<ul> <li>during operatio</li> </ul>	n		-25 +60 °C		
<ul> <li>during storage</li> </ul>			-40 +85 °C		
<ul> <li>during transpor</li> </ul>	t		-40 +85 °C		
relative humidity durir			10 95 %		
ertificates/ approval General Product Ap				EMC	Declaration of
ertificates/ approval General Product Ap		س		емс	Declaration of Conformity
		<b>U</b>	EAC	EMC RCM	
	oproval	UL UL Marine / Shipp	ERC	Ô	Conformity
General Product Ap	oproval	Marine / Shipp Marine / Shipp	Ding	Ô	Conformity
General Product Ap	oproval	BUREAU	Llovds Register	Ô	Conformity
General Product Ap	oproval	BUREAU VERITAS	Llovds Kegister urs	Ô	Conformity

https://www.siemens.com/ic10 Industry Mall (Online ordering system)

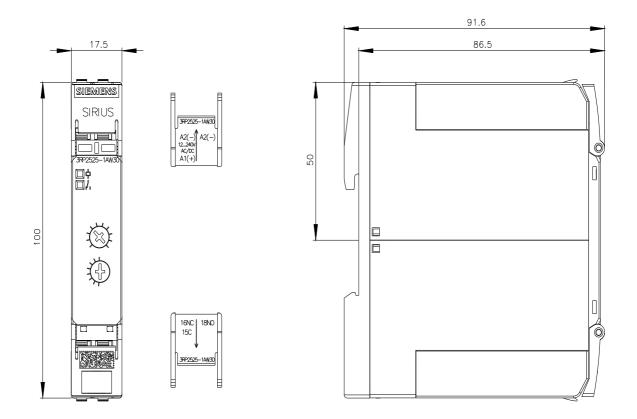
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2525-1AW30

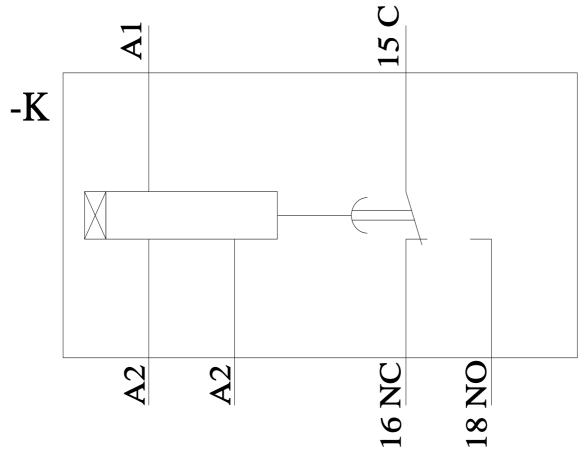
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2525-1AW30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-1AW30 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RP2525-1AW30&lang=en Characteristic: Derating





## last modified:

12/9/2021 🖸