SIEMENS

Data sheet

3RP2525-1BB30



Timing relay, electronic on-delay 2 change-over contacts, 7 time ranges 0.05 s...100 h 24 V AC/DC at 50/60 Hz AC with LED, screw terminal

product brand name SIRUS product designation timing relay design of the product skw-operating product type designation 3RP25 General technical data product component • relay output Yes • semi-conductor output No product extension required remote control No product extension required remote control No insulation voltage for vervoltage category III according to 100 V EC 60664 with degree of pollution 3 rated value 2.5 kV degree of pollution 3 surge voltage resistance rated value 4 000 V protoction class IP IP20 whore inthe (switching cycles) typical 100 000 electrical endurance (switching cycles) typical 100 000 electrical endurance (switching cycles) at AC-15 at 230 V 100 000 typical 0.05 s 100 h relative setting accuracy relating to full-scale value 5% thermal current 5A recovery time 150 ms reference code acc. to IEC 81346-2 K relative repe		
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General technical data product component • relay output • semi-conductor output product extension required remote control No product extension optional remote control insulation voltage for isolation test 1EC 60664 with degree of pollution at a ted value test voltage for isolation test 2.5 kV degree of pollution 3 surge voltage resistance rated value 4 000 V protection class IP isolation voltage for isolation test 0.5 kK resistance acc. to IEC 60068-2-27 11g / 15 ms vibration resistance acc. to IEC 60068-2-6 10 nechanical service life (switching cycles) typical 10 0000 000 electrical endurance (switching cycles) at AC-15 at 230 V typical adjustable time 0.05 s 100 h relative setting accuracy relating to full-scale value 5 A reference code acc. to IEC 81346-2 K relative repeat accuracy 1 % Control supply voltage 1 at AC • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V • at 60 Hz rated value 24 V <th>design of the product</th> <th>slow-operating</th>	design of the product	slow-operating
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relative setting accuracy relating to full-scale value 5 % thermal current 5 A recovery time 150 ms reference code acc. to IEC 81346-2 K relative repeat accuracy 1 % Control circuit/ Control 1 % type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC 24 V • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V • control supply voltage 1 at DC rated value 24 V • operating range factor control supply voltage rated value at DC • initial value 0.85		100 000
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recovery time 150 ms reference code acc. to IEC 81346-2 K relative repeat accuracy 1 % Control circuit/ Control 1 % type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V control supply voltage frequency 1 50 60 Hz • control supply voltage 1 at DC rated value 24 V • at 60 Hz rated value 24 V operating range factor control supply voltage rated value 0.85	relative setting accuracy relating to full-scale value	5 %
reference code acc. to IEC 81346-2 K relative repeat accuracy 1 % Control circuit/ Control 1 % type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC 4 • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V control supply voltage frequency 1 50 60 Hz • control supply voltage 1 at DC rated value 24 V • control supply voltage frequency 1 50 60 Hz • control supply voltage 1 at DC rated value 24 V • control supply voltage 1 at DC rated value 24 V 0 perating range factor control supply voltage rated value 0.85	thermal current	5 A
relative repeat accuracy 1 % Control circuit/ Control type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V control supply voltage frequency 1 50 60 Hz • control supply voltage 1 at DC rated value 24 V • control supply voltage 1 at DC rated value 24 V • control supply voltage 1 at DC rated value 0.85	recovery time	150 ms
Control circuit/ Control type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC 4 • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V • at 60 Hz rated value 24 V control supply voltage frequency 1 50 60 Hz • control supply voltage 1 at DC rated value 24 V • control supply voltage 1 at DC rated value 24 V operating range factor control supply voltage rated value 0.85	reference code acc. to IEC 81346-2	К
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control supply voltage frequency 1 50 60 Hz • control supply voltage 1 at DC rated value 24 V operating range factor control supply voltage rated value at DC 0.85	• at 50 Hz rated value	24 V
control supply voltage 1 at DC rated value operating range factor control supply voltage rated value at DC initial value 0.85	• at 60 Hz rated value	24 V
operating range factor control supply voltage rated value at DC • initial value 0.85	control supply voltage frequency 1	50 60 Hz
operating range factor control supply voltage rated value at DC • initial value 0.85	 control supply voltage 1 at DC rated value 	24 V
	operating range factor control supply voltage rated	
• full-scale value 1.1	• initial value	0.85
	• full-scale value	1.1

operating range factor control supply voltage rated value at AC at 50 Hz	
initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.85
• full-scale value	1.1
inrush current peak	
• at 24 V	2 A
duration of inrush current peak	
• at 24 V	1 ms
Switching Function	
switching function	
• ON-delay	Yes
 ON-delay/instantaneous contact 	No
 passing make contact 	No
 passing make contact/instantaneous contact 	No
• OFF delay	No
switching function	
 flashing symmetrically with interval start/instantaneous 	No
 flashing symmetrically with interval start 	No
 flashing symmetrically with pulse start/instantaneous 	No
 flashing symmetrically with pulse start 	No
 flashing asymmetrically with interval start 	No
 flashing asymmetrically with pulse start 	No
switching function	
 star-delta circuit with delay time 	No
star-delta circuit	No
switching function with control signal	
additive ON-delay	No
 passing break contact 	No
passing break contact/instantaneous	No
• OFF delay	No
OFF delay/instantaneous	No
pulse delayed	No
pulse delayed/instantaneous	No
• pulse-shaping	No
pulse-shaping/instantaneous	No
additive ON-delay/instantaneous	No
ON-delay/OFF-delay/instantaneous	No
passing make contact	No
passing make contact/instantaneous contact	No
 switching function of interval relay with control signal retrotriggerable with deactivated control 	No
signal/instantaneous contact	No
retrotriggerable with switched-on control signal	No
retrotriggerable with switched-on control signal/instantaneous contact	No
retriggerable with deactivated control signal	No
Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	
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	2

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
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
switching capacity current with inductive load	0.01 3 A
Inputs/ Outputs	
product function	
 at the relay outputs switchover delayed/without delay 	No
non-volatile	No
Electromagnetic compatibility	
EMC immunity acc. to IEC 61812-1	EN 61000-6-2
conducted interference	
 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	
touch protection against electrical shock	finger-safe
type of insulation	Basic insulation
category acc. to EN 954-1	none
Connections/ Terminals	
product function removable terminal for auxiliary and control circuit	Yes
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	1x (0.5 4 mm²), 2x (0.5 1.5 mm²)
 at AWG cables solid 	1x (20 12), 2x (20 14)
 at AWG cables stranded 	1x (20 12), 2x (20 14)
 connectable conductor cross-section solid 	0.5 4 mm²
 connectable conductor cross-section finely stranded with core end processing 	0.5 4 mm²
AWG number as coded connectable conductor cross section solid	20 12
AWG number as coded connectable conductor cross section stranded	20 14
tightening torque	0.6 0.8 N·m
design of the thread of the connection screw	M3
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
h - l - l - l - l - l	
height	100 mm
width	100 mm 22.5 mm
width	22.5 mm
width depth	22.5 mm
width depth required spacing	22.5 mm

— backwards	S		0 mm		
— upwards			0 mm		
- downward			0 mm		
— at the side			0 mm		
 for grounded particular 	arts				
— forwards			0 mm		
— backwards	3		0 mm		
— upwards			0 mm		
— at the side)		0 mm		
- downward	ls		0 mm		
 for live parts 					
— forwards			0 mm		
— backwards	3		0 mm		
— upwards			0 mm		
— downward	ls		0 mm		
— at the side)		0 mm		
Ambient conditions					
	height above sea level	maximum	2 000 m		
	rature during operation		-25 +60 °C		
	rature during storage		-40 +85 °C		
	rature during transport		-40 +85 °C		
relative humidity durir Certificates/ approval			10 95 %		
General Product Ap	oproval			EMC	Declaration of Conformity
() E			EHC	RCM	<u>Miscellaneous</u>
Declaration of Conformity	CCC Test Certificates	Marine / Shipp	bing	RCM	Miscellaneous
		Marine / Shipp	Ding UKS	RCM	Miscellaneous
Conformity	Test Certificates Type Test Certificates/Test	BUREAU	Lloyds Register		
Conformity C E EG-Konf.	Test Certificates Type Test Certificates/Test	B U R E A U VERITAS	Llovds Register urs		
Conformity CECE EG-Konf. Marine / Shipping Marine / Shipping Further information	Test Certificates	other Confirmation	Lloyds Register uts		

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RP2525-1BB30

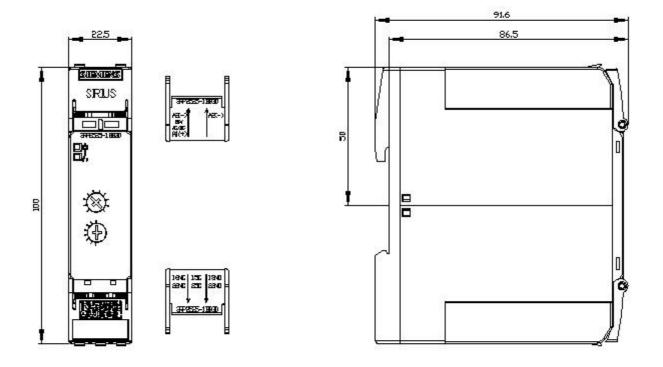
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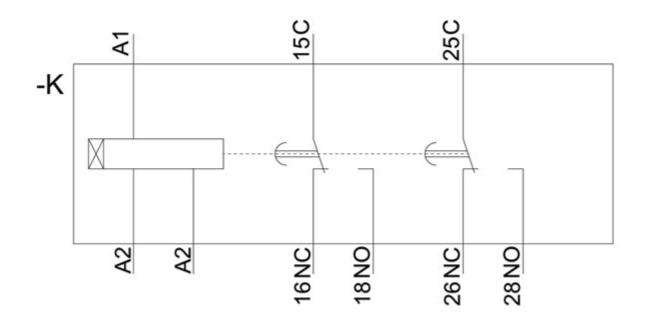
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-1BB30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2525-1BB30&lang=en





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