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	SIRIUS		
product designation	timing relay		
design of the product	slow-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 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 according to IEC 60068-2-27	11g / 15 ms		
mechanical service life (operating cycles) typical	10 000 000		
electrical endurance (operating 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	150 ms		
reference code according 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)	09/12/2014		
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		
operating range factor control supply voltage rated value at DC			
• 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	110
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 passing make contact/instantaneous contact	No
switching function of interval relay with control signal	
retrotriggerable with deactivated control	No
signal/instantaneous contact	
retrotriggerable with switched-on control signal	No
retrotriggerable with switched-on control	No
signal/instantaneous contact	
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
• instantaneous contact	0
number of NO contacts	
delayed switching	0
• instantaneous contact	0

number of CO contacts				
 delayed switching 	2			
• instantaneous contact	0			
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				
at the relay outputs switchover delayed/without delay	No			
• non-volatile	No			
Electromagnetic compatibility				
EMC emitted interference according to IEC 61812-1	ambience A (industrial sector)			
EMC immunity according to IEC 61812-1	corresponds to degree of severity 3			
conducted interference				
due to burst according to IEC 61000-4-4	2 kV network connection / 1 kV control connection			
due to conductor-earth surge according to IEC 61000-4-5	2 kV			
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	4 kV contact discharge / 8 kV air discharge			
Safety related data	4 KV Contact discharge 7 o KV all discharge			
	none			
category according to EN 954-1	none IP20			
protection class IP on the front according to IEC 60529 type of insulation	Basic insulation			
Connections/ Terminals	Dasic Institution			
	Yes			
product component removable terminal for auxiliary and control circuit	Tes			
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)			
• for AWG cables solid	1x (20 12), 2x (20 14)			
• for AWG cables stranded	1x (20 12), 2x (20 14)			
connectable conductor cross-section				
• solid	0.5 4 mm²			
• finely stranded with core end processing	0.5 4 mm²			
AWG number as coded connectable conductor cross section				
• solid	20 12			
• 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 DIN rail			
height	100 mm			
width	22.5 mm			
depth	22.5 mm 90 mm			
required spacing	00 11111			
with side-by-side mounting — forwards	0 mm			
— rorwards — backwards	0 mm			
— Dackwards	O 100 100			
— upwards	0 mm 0 mm			

General Product Approval		EMC	Declaration of Con-
Approvals Certificates			
relative humidity during operation	10 95 %		
during transport	-40 +85 °C		
during storage	-40 +85 °C		
during operation	-25 +60 °C		
ambient temperature			
installation altitude at height above sea level maximum	2 000 m		
Ambient conditions			
— at the side	0 mm		
— downwards	0 mm		
— upwards	0 mm		
— backwards	0 mm		
— forwards	0 mm		
• for live parts			
— downwards	0 mm		
— at the side	0 mm		
— upwards	0 mm		
— backwards	0 mm		
for grounded parts — forwards	0 mm		
— at the side	O Mili		
— downwards	0 mm		
damanada	0 mm		



Confirmation









formity

Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report









Marine / Shipping

other





Confirmation

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=3RP2525-1BB30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2525-1BB30

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

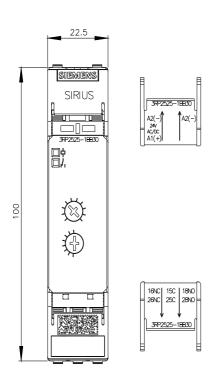
https://support.industry.siemens.com/cs/ww/en/ps/3RP2525-1BB30

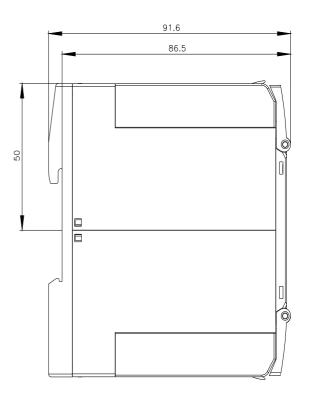
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

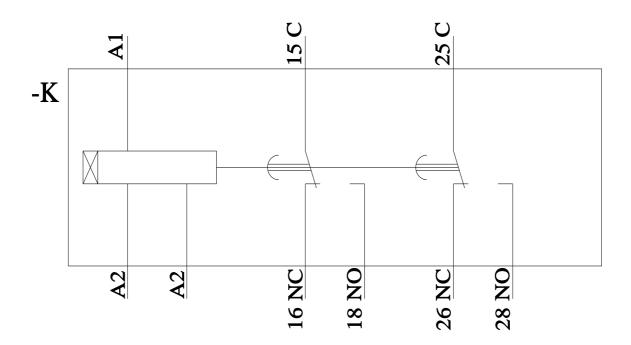
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RP2525-1BB30\&lang=endersearch.pdf} \\$

Characteristic: Derating

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







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