SIEMENS

Data sheet 3RP2574-2NW30



Timing relay, electronic with star-delta (wye-delta) function 1 NO delayed 1 NO instantaneous 1 time range, 1...20 s 12-240 V AC/DC at 50/60 Hz AC with LED, Spring-type terminal (push-in)

product brand name	SIRIUS
product designation	timing relay
design of the product	Star-delta (wye-delta) function
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
vibration resistance according 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	1 20 s
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
recovery time	250 ms
reference code according to IEC 81346-2	K
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	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	

value at DC	
	0.0
• initial value	0.8
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
initial value	0.8
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
initial value	0.8
full-scale value	1.1
inrush current peak	
● at 24 V	0.5 A
● at 240 V	5 A
duration of inrush current peak	
● at 24 V	0.4 ms
● at 240 V	0.5 ms
Switching Function	
switching function	
 ON-delay 	No
 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	Yes
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 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	

number of NC contacts	material of switching contacts	AgSnO2
oldsyed switching		
Instantaneous contact O		0
number of NO contacts		
eldelayed switching elnstantaneous contact 1 number of CO contacts eldelayed switching elnstantaneous contact operational current of auxiliary contacts at AC-15 el 24 V ell 250 V operational current of auxiliary contacts at DC-13 ell 25 V ell 250 V operational current of auxiliary contacts at DC-13 ell 24 V ell 250 V operating frequency with 3RT2 contactor maximum contact rating of auxiliary contacts contact rating of auxiliary auxilia		
Instantaneous contact 1 1 1 1 1 1 1 1 1		1
number of CO contacts		
delayed switching instantaneous contact operational current of auxiliary contacts at AC-15 at 24 V at 250 V operational current of auxiliary contacts at DC-13 all 250 V operational current of auxiliary contacts at DC-13 all 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL switching capacity current with inductive load linputs Outputs one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 inputs Outputs one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 inputs Outputs one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 inputs Outputs one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 inputs Outputs one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 inputs Outputs one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 inputs Outputs one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 inputs Outputs one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 inputs Outputs outputs Outputs one incorrect switching operation of 100 million switching operations (17 V, 5 mA) R300 / B300 inputs Outputs outputs Outputs Outputs outputs Outputs Outputs outputs Outputs Outputs outputs Outputs outputs		
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operational current of auxiliary contacts at AC-15 • at 24 V • at 250 V operational current of auxiliary contacts at DC-13 • at 24 V • at 125 V • at 125 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts according to UL switching capacity current with inductive load inputs/Outputs product function • at the relay outputs switchover delayed/without delay • non-vokalile EMC emitted interference according to IEC 61812-1 EMC immunity according to IEC 61812-1 EMC immunity according to IEC 61800-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to bust according to IEC 61000-4-2 • due to bust according to IEC 61000-4-2 • due to conductor-earth surge according to IEC 61000-4-2 • due to conductor-conductor surge according to IEC 61000-4-2 • due to conductor-conductor surge according to IEC 61000-4-2 • due to bust according to IEC 61000-4-2 • due to conductor-conductor surge according to IEC 61000-4-2 • due to bust according to IEC 61000-4-2 • due to conductor-conductor surge according to IEC 61000-4-2 • due to conductor-conductor surge according to IEC 61000-4-2 • flotel-based interference according to IEC 61000-4-3 • flotel-base		
at 24 V at 250 V operational current of auxillary contacts at DC-13 at 24 V at 125 V at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts one incorrect switching operation of 100 million switching operations (17 V, 5 mA) contact rating of auxiliary contacts contact function at the relay outputs switchover delayed/without delay non-volatile No No Ro Ro Ro Ro Ro Ro Ro Ro		
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at 24 V at 125 V at 125 V otal 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxillary contacts ocntact rating of auxillary contacts according to UL switching capacity current with inductive load Inputs/Outputs product function	• at 250 V	3 A
at 125 V at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts contact rating of auxiliary contacts switching capacity current with inductive load contact rating of auxiliary contacts witching capacity current with inductive load contact rating of auxiliary contacts witching capacity current with inductive load contact fraction at the relay outputs product function at the relay outputs switchover delayed/without delay enon-volatile Find mitted interference according to IEC 61812-1 conducted interference at the relation of the find secretary of the conductor conductor surge according to IEC 6100-4-2 due to burst according to IEC 6100-4-4 due to conductor-conductor surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic	operational current of auxiliary contacts at DC-13	
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operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts according to UL switching capacity current with inductive load inputs/ Outputs product function	● at 125 V	0.2 A
contact rating of auxiliary contacts according to UL whiching operation of 100 million switching operations (17 V, 5 mA) and the product function at the relay outputs switchover delayed/without delay non-volatile electromagnetic compatibility EMC emitted interference according to IEC 61812-1 conducted interference according to IEC 61812-1 conducted interference according to IEC 61800-4-4 due to conductor-parth surge according to IEC 61000-4-3 due to conductor-conductor surge according to IEC 61000-4-3 due to conductor-conductor surge according to IEC 61000-4-3 delectrostatic discharge according to IEC 61000-4-2 dk V contact discharge / 8 kV air discharge Safety related data protection class IP on the front according to IEC 65000-4-2 hype of insulation action of the product of the product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections of solid at AWG cables solid at AWG cables sind and according to IEC onnectable conductor cross-section solid efinely stranded with core end processing in finely stranded with core end processing finely stranded with core end processing in the strandard in t	• at 250 V	0.1 A
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product function • at the relay outputs switchover delayed/without delay • non-volatile No	switching capacity current with inductive load	0.01 3 A
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EMC immunity according to IEC 61812-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according 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 stranded • finely stranded with core end processing • solid • solid		ambience A (industrial sector)
conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • field-based interference according to IEC 61000-4-3 • dectrostatic discharge according to IEC 61000-4-2 • dectrostatic discharge according to IEC 61000-4-2 • Av Contact discharge / 8 kV air discharge Safety related data protection class IP on the front according to IEC 61000-4-2 type of insulation category according to EN 954-1 connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit spring-loaded terminals (push-in) type of connectable conductor cross-sections • solid • sinely stranded with core end processing • at AWG cables solid • at AWG cables solid • at AWG cables solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • solid		,
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• due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Safety related data protection class IP on the front according to IEC 60529 type of insulation category according 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 stranded • at AWG cables stranded • finely stranded with core end processing • finely stranded without core end processing • solid AWG number as coded connectable conductor cross section • solid		
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protection class IP on the front according to IEC 60529 type of insulation category according to EN 954-1 Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit spring-loaded terminals (push-in) type of connectable conductor cross-sections	<u>_</u>	
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type of insulation category according 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 • at AWG cables stranded • at AWG cables stranded • at AWG cables stranded • finely stranded with core end processing • solid • at AWG cables stranded • at AWG cables stranded • at AWG cables stranded • at AWG cables stranded • at AWG cables stranded • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • solid • solid	Safety related data	
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Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit spring-loaded terminals (push-in) type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • at AWG cables stranded connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing	type of insulation	Basic insulation
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type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • solid • finely stranded with core end processing • solid		Yes
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 at AWG cables solid at AWG cables stranded 20 12 connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing at a MWG MWG number as coded connectable conductor cross section solid 20 12 	 finely stranded with core end processing 	0.5 2.5 mm ²
 at AWG cables stranded connectable conductor cross-section solid finely stranded with core end processing finely stranded without core end processing MWG number as coded connectable conductor cross section solid 20 12 		
connectable conductor cross-section • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid 0.5 4 mm² 0.5 4 mm² 0.5 4 mm² 20 12		
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AWG number as coded connectable conductor cross section • solid 20 12		
• solid 20 12		0.5 4 mm²
	section	
• stranded 20 12	• solid	
	• stranded	20 12

fastening method screw and snap-on mounting onto 35 mm standard mounting rail height 100 mm width 22.5 mm 90 mm required spacing • with side-by-side mounting — forwards 0 mm — backwards 0 mm — downwards 0 mm — of or grounded parts — for grounded parts — for grounded parts — for grounded parts — backwards 0 mm • backwards 0 mm • for grounded parts — forwards 0 mm • for grounded parts — forwards 0 mm • backwards 0 mm • at the side 0 mm • for live parts — forwards 0 mm • for live parts — forwards 0 mm • for live parts — townwards 0 mm • forwards 0 mm • forwards 0 mm • forwards 0 mm • forwards 0 mm • downwards 0 mm — at the side 0 mm — downwards 0 mm — down	mounting position	any
height 100 mm width 22.5 mm depth 90 mm required spacing • with side-by-side mounting 0 mm — forwards 0 mm — backwards 0 mm — downwards 0 mm — at the side 0 mm • for grounded parts 0 mm — backwards 0 mm — backwards 0 mm — at the side 0 mm — downwards 0 mm — forwards 0 mm — backwards 0 mm — ownwards 0 mm		
width 22.5 mm depth 90 mm required spacing • with side-by-side mounting 0 mm — forwards 0 mm — backwards 0 mm — downwards 0 mm — at the side 0 mm • for grounded parts 0 mm — backwards 0 mm — backwards 0 mm — at the side 0 mm — downwards 0 mm • for live parts 0 mm — backwards 0 mm — downwards 0 mm <		
depth 90 mm	-	
required spacing		
with side-by-side mounting — forwards — backwards — upwards — downwards — at the side for grounded parts — forwards — backwards — backwards — backwards — upwards — upwards — at the side — o mm — at the side — o mm — of rive parts — forwards — backwards — o mm — of rive parts — forwards — backwards — o mm for live parts — forwards — backwards — backwards — o mm — at the side — o mm — o turing operation — o during operation — o during storage — o during transport - o u +85 °C — o during transport	•	
- forwards		
		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 - at the side 0 mm - at the side 0 mm - downwards 0 mm - for live parts - forwards 0 mm - backwards 0 mm - downwards 0 mm - downwards 0 mm - the side 0 mm - for live parts - forwards 0 mm - backwards 0 mm - upwards 0 mm - downwards 0 mm - downwards 0 mm - downwards 0 mm - downwards 0 mm - at the side 0 mm -		
- downwards - at the side • for grounded parts - forwards - backwards - upwards - at the side • for mm - at the side 0 mm - upwards - downwards 0 mm • for live parts - forwards - backwards 0 mm • for mm • for wards 0 mm - at the side 0 mm - at wards 0 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - upwards 0 mm - downwards 0 mm - downwards 0 mm - at the side 0		
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- upwards - at the side - downwards 0 mm - downwards 0 mm • for live parts - forwards 0 mm - backwards 0 mm - upwards 0 mm - upwards 0 mm - at the side 0 mm - at the side 0 mm mbient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport 0 mm - 25 +60 °C - 40 +85 °C - 40 +85 °C		
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- downwards - at the side 0 mm mbient conditions installation altitude at height above sea level maximum ambient temperature ● during operation ● during storage ● during transport 0 mm 2 000 m -25 +60 °C -40 +85 °C -40 +85 °C	— backwards	0 mm
— at the side 0 mm mbient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -25 +60 °C • during storage -40 +85 °C • during transport -40 +85 °C	— upwards	0 mm
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport 2 000 m -25 +60 °C -40 +85 °C	— downwards	0 mm
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport -25 +60 °C -40 +85 °C -40 +85 °C	— at the side	0 mm
 ambient temperature during operation during storage during transport -25 +60 °C -40 +85 °C -40 +85 °C 	mbient conditions	
 during operation during storage during transport -25 +60 °C -40 +85 °C -40 +85 °C 	installation altitude at height above sea level maximum	2 000 m
 during storage during transport -40 +85 °C -40 +85 °C 	ambient temperature	
◆ during transport	during operation	-25 +60 °C
The Original Property of the Control	during storage	-40 +85 °C
relative humidity during operation 10 95 %	during transport	-40 +85 °C
	relative humidity during operation	10 95 %

General Product Approval







Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other







Confirmation

Further information

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=3RP2574-2NW30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP2574-2NW30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RP2574-2NW30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RP2574-2NW30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RP2574-2NW30/manual

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