SIEMENS

Product data sheet

3RP1576-1NQ30

TIME RELAY, STAR-DELTA SINGLE TIME RANGE 60 S AC 24 V DC 100...127 V 0.7...1.25 US

product brand name		SIRIUS
product designation		timing relay
Protection class IP / on the front		IP40
Protection class IP / of the terminal		IP20
mounting position		any
Supply voltage frequency		
 1 / for auxiliary and control current circuit 		
• initial rated value	Hz	50
• final rated value	Hz	60
Product function		
• star-delta circuit		Yes
 with auxiliary voltage / pulse-shaping 		No
• at the relay outputs / changeover delayed/without delay		No
Product component / semi-conductor output		No
Product extension / optional / remote control		No
Product extension / strictly required / remote control		No
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-40 +85
during operating	°C	-25 +60
during transport	°C	-40 +85
Relative humidity		
during operating phase	%	15 70
Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV network connection / 1 kV control connection
Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5		2 kV
Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5		1 kV
		4 kV contact discharge / 8 kV air discharge
Electrostatic discharge / according to IEC 61000-4-2		
Electrostatic discharge / according to IEC 61000-4-2 Field-bound parasitic coupling / according to IEC 61000-4-3		10 V/m

Impulse voltage resistance / rated value	V	4,000
Insulation voltage / rated value	V	300
Active power loss / total / typical	W	2
Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		К
Item designation / according to DIN EN 61346-2		К
Category / according to EN 954-1		none
Protection against electrical shock		finger-safe

Switching Function:

• slow-operatingNo• making pulse contactNo• firmly clocked beginning with pulseNo• firmly clocked beginning with pauseNo• relapse delayedNo• variably clocked start with impulseNo• with auxiliary voltageNo• in an additive way slow-operatingNo• relapse delayedNo• temporary line faultNo• relapse delayedNo• relapse delayedNo• temporary line faultNo• relapse delayedNo• with auxiliary voltage / relapse delayedNo• with auxiliary voltageNo• relapse delayed/instantaneous contactNo• with auxiliary voltageNo• relapse delayed/instantaneous contactNo• slow-operating/relapse delayed/instantaneous contactNo• with auxiliary voltageNo• with auxiliary voltageNo </th <th>Switching function</th> <th></th>	Switching function	
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• firmly clocked beginning with pauseNo• relapse delayedNo• variably clocked start with impulseNo• impuls variably clocked start with pauseNo• with auxiliary voltageNo• in an additive way slow-operatingNo• temporary line faultNo• relapse delayedNo• without auxiliary voltage / relapse delayedNo• without auxiliary voltage / relapse delayedNo• without auxiliary voltage / relapse delayedNo• slow-operating/instantaneous contactNo• slow-operating/relapse delayed/instantaneous contactNo• making pulse contact/instantaneous contactNo	making pulse contact	No
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• in an additive way slow-operatingNo• temporary line faultNo• relapse delayedNo• without auxiliary voltage / relapse delayedNo• without auxiliary voltage / relapse delayedNo• slow-operating/instantaneous contactNo• with auxiliary voltageNo• relapse delayed/instantaneous contactNo• firmly clocked beginning with pause/instantaneous contactNo• making pulse contact/instantaneous contactNo• making pulse contact/instantaneous contactNo	 impuls variably clocked start with pause 	No
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 without auxiliary voltage / relapse delayed slow-operating/instantaneous contact with auxiliary voltage relapse delayed/instantaneous contact slow-operating/relapse delayed/instantaneous contact slow-operating with pause/instantaneous contact firmly clocked beginning with pause/instantaneous contact making pulse contact/instantaneous contact 	temporary line fault	No
 slow-operating/instantaneous contact with auxiliary voltage relapse delayed/instantaneous contact slow-operating/relapse delayed/instantaneous contact firmly clocked beginning with pause/instantaneous contact making pulse contact/instantaneous contact 	relapse delayed	No
 with auxiliary voltage relapse delayed/instantaneous contact slow-operating/relapse delayed/instantaneous contact firmly clocked beginning with pause/instantaneous contact making pulse contact/instantaneous contact No 	 without auxiliary voltage / relapse delayed 	No
 relapse delayed/instantaneous contact slow-operating/relapse delayed/instantaneous contact firmly clocked beginning with pause/instantaneous contact making pulse contact/instantaneous contact No 	 slow-operating/instantaneous contact 	No
• slow-operating/relapse delayed/instantaneous contact • firmly clocked beginning with pause/instantaneous contact • making pulse contact/instantaneous contact No	with auxiliary voltage	
• firmly clocked beginning with pause/instantaneous contact • making pulse contact/instantaneous contact No	 relapse delayed/instantaneous contact 	No
making pulse contact/instantaneous contact	 slow-operating/relapse delayed/instantaneous contact 	No
	 firmly clocked beginning with pause/instantaneous contact 	No
with auxiliary voltage	 making pulse contact/instantaneous contact 	No
	with auxiliary voltage	
temporary line fault/instantaneous contact No	 temporary line fault/instantaneous contact 	No
pulse modelling/instantaneous contact No	 pulse modelling/instantaneous contact 	No
slow-operating/instantaneous contact No	 slow-operating/instantaneous contact 	No

General details:

Type of voltage / of the controlled supply voltage		AC/DC
Control supply voltage frequency		
•1	Hz	50 60
Control supply voltage		
• 1		
• at 50 Hz / for AC / rated value	V	24

at 60 Hz / for AC / rated value	V	24
for DC / rated value	V	24
•2		
• at 50 Hz		
• for AC	V	100 127
• at 60 Hz		
• for AC	V	100 127
Operating range factor control supply voltage rated value		
• at 50 Hz		
• for AC		0.85 1.1
• at 60 Hz		
• for AC		0.85 1.1
• for DC		0.85 1.1
Auxiliary circuit:		
Operating current / of auxiliary contacts		
 as normally closed contact / for AC-15 		
• at 24 V	А	3
• at 250 V	А	3
 as normally open contact / for AC-15 		
• at 24 V	А	3
• at 250 V	А	3
• at AC-15		
• maximum	А	3
• at DC-13		
• at 24 V	А	1
• at 125 V	А	0.2
• at 250 V	А	0.1
Number of NC contacts / delayed switching		0
Number of NC contacts / non-delayed		0
Number of NO contacts / delayed switching		1
Number of NO contacts / non-delayed		1
Number of change-over switches / delayed switching		0
Number of change-over switches / non-delayed		0
Short-circuit:		
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 4 A
Type of mounting		screw and snap-on mounting onto 35 mm standard mounting rail
Installation/mounting/dimensions.		

Installation/mounting/dimensions:

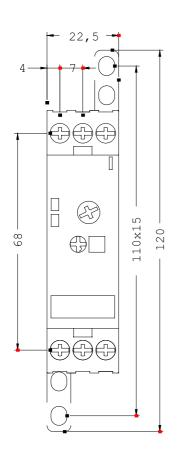
Width	mm	22.5
Height	mm	83
Depth	mm	91
Distance, to be maintained, to the ranks assembly		
• upwards	mm	0
forwards	mm	0
• sidewards	mm	0
backwards	mm	0
downwards	mm	0
Distance, to be maintained, to earthed part		
backwards	mm	0
• sidewards	mm	0
• upwards	mm	0
• forwards	mm	0
downwards	mm	0
Distance, to be maintained, conductive elements		
downwards	mm	0
backwards	mm	0
• sidewards	mm	0
• forwards	mm	0
• upwards	mm	0
Connections		
Connections:		
Design of the snap-on socket base		none

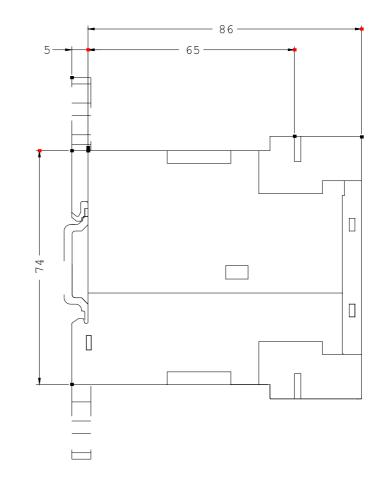
Design of the snap-on socket base		none
Design of the electrical connection		
• jumper socket		No
for auxiliary and control current circuit		screw-type terminals
Type of the connectable conductor cross-section / for auxiliary contacts / solid		0.5 4 mm², 2x (0.5 2.5 mm²)
Conductor cross-section that can be connected / for auxiliary contact / solid		
• minimum	mm²	0.5
• maximum	mm²	4
Type of the connectable conductor cross-section / for auxiliary contacts / finely stranded / with conductor end processing		0.5 2.5 mm², 2x (0.5 1.5 mm²)
Conductor cross-section that can be connected / for auxiliary contact / finely stranded / with conductor end processing		
• minimum	mm²	0.5
• maximum	mm²	2.5
Type of the connectable conductor cross-section / for AWG conductors / for auxiliary contacts		2x (20 14)

AWG number / as c for auxiliary contac		nductor cross-section /				
• minimum				20		
• maximum				14		
Certificates/appro	ovals:					
Verification of suita	ability			CE / UL	/ CSA	
General Product A	Approval				Declaration of Conformity	Test Certificates
	(SA)	GOST			CE EG-Konf.	Special Test Certificate
Shipping Approva	al de la constante de la const					
B U R E A U V E R I TA S		GL	Llovd's Register LRS		PRS	RINA
Shipping Approva	al other					
RMRS	<u>Confirmation</u>	<u>other</u>	Environmenta Confirmations	_		

Further information:	
Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/industrial-controls/catalogs	
Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall	
CAx-Online-Generator http://www.siemens.com/cax	
Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://support.automation.siemens.com/WW/view/en/3RP1576-1NQ30/all	

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RP1576-1NQ30





last change:

Feb 4, 2013