SIEMENS

Product data sheet 3RP1505-2BP30

MULTIFUNCTION TIME RELAY IN CAGE-CLAMP TECH. 2 CHANGEOVER,
16 FUNCTIONS,
AC 24V 200...240V AND DC 24V 15 TIME SETTING RANGES

General technical details:		
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		Yes
• at the relay outputs / changeover delayed/without delay		Yes
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
Electrostatic discharge / according to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / according to IEC 61000-4-3		10 V/m
Resistance against vibration		10 ... 55 Hz / 0.35 mm
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		K
Item designation / according to DIN EN 61346-2		K
Category / according to EN 954-1		none
Protection against electrical shock		finger-safe

Switching Function:

Switching function		
• slow-operating		Yes
• making pulse contact		No
• firmly clocked beginning with pulse		No
• firmly clocked beginning with pause		Yes
• relapse delayed		Yes
• variably clocked start with impulse		No
• impuls variably clocked start with pause		No
• with auxiliary voltage		
• in an additive way slow-operating		Yes
• temporary line fault		Yes
• relapse delayed		Yes
• without auxiliary voltage / relapse delayed		No
• slow-operating/instantaneous contact		Yes
• with auxiliary voltage		
• relapse delayed/instantaneous contact		Yes
• slow-operating/relapse delayed/instantaneous contact		Yes
• firmly clocked beginning with pause/instantaneous contact		Yes

• making pulse contact/instantaneous contact		Yes
• with auxiliary voltage		
• temporary line fault/instantaneous contact		Yes
• pulse modelling/instantaneous contact		Yes
• slow-operating/instantaneous contact		Yes

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	200 … 240
• at 60 Hz		
• for AC	V	200 … 240
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	A	3
• at 250 V	A	3
• as normally open contact / for AC-15		
• at 24 V	A	3
• at 250 V	A	3
• at AC-15		
• maximum	A	3
• at DC-13		
• at 24 V	A	1
• at 125 V	A	0.2
• at 250 V	A	0.1

Number of NC contacts / delayed switching		0
Number of NC contacts / non-delayed		0
Number of NO contacts / delayed switching		0
Number of NO contacts / non-delayed		0
Number of change-over switches / delayed switching		2
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:		
Width	mm	22.5
Height	mm	103
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:		
Design of the snap-on socket base		none
Design of the electrical connection		
• jumper socket		No
• for auxiliary and control current circuit		spring-loaded terminals

Type of the connectable conductor cross-section / for auxiliary contacts / solid		2x (0.25 ... 1.5 mm²)
Conductor cross-section that can be connected / for auxiliary contact / solid		
• minimum	mm²	0.25
• maximum	mm²	1.5
Type of the connectable conductor cross-section / for auxiliary contacts / finely stranded / with conductor end processing		2x (0.25 ... 1.5 mm²)
Conductor cross-section that can be connected / for auxiliary contact / finely stranded / with conductor end processing		
• minimum	mm²	0.25
• maximum	mm²	1.5
Type of the connectable conductor cross-section / for auxiliary contacts / finely stranded / without conductor final cutting		2x (0.25 ... 1.5 mm²)
Conductor cross-section that can be connected / for auxiliary contact / finely stranded / without conductor final cutting		
• minimum	mm²	0.25
• maximum	mm²	1.5
Type of the connectable conductor cross-section / for AWG conductors / for auxiliary contacts		2x (24 ... 16)
AWG number / as coded connectable conductor cross-section / for auxiliary contact		
• minimum		24
• maximum		16

Certificates/approvals:

Verification of suitability	CE / UL / CSA

General Product Approval				**Declaration of Conformity**	**Test Certificates**
CCC	CSA	GOST	UL	EG-Konf.	Special Test Certificate

Shipping Approval					
BUREAU VERITAS	DNV	GL	LRS	PRS	RINA

Shipping Approval	**other**		
RMRS	Confirmation	other	Environmental Confirmations

Further information:

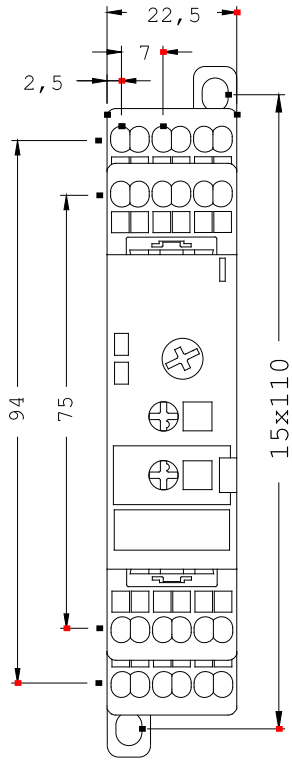
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

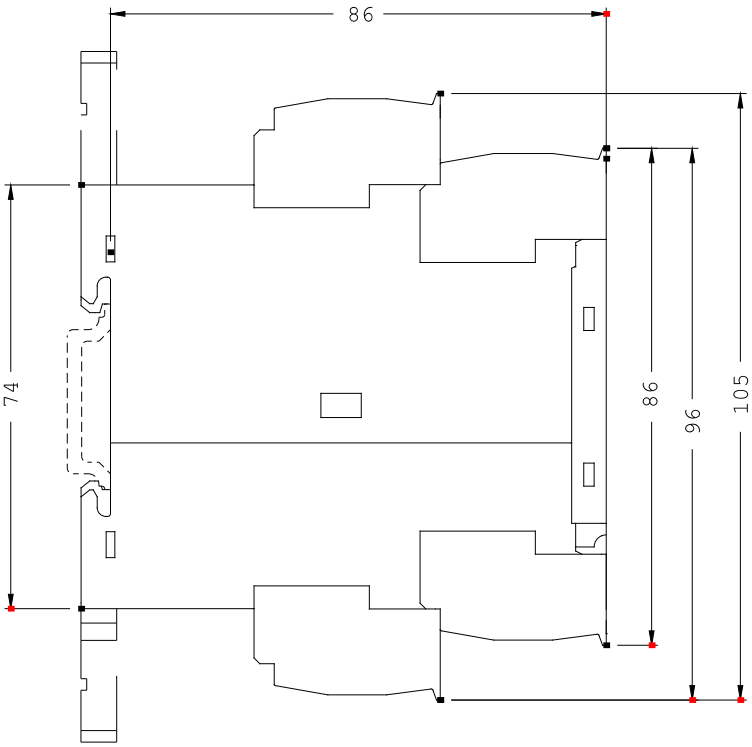
Industry Mall (Online ordering system)
http://www.siemens.com/industrial-controls/mall

CAx-Online-Generator
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RP1505-2BP30/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RP1505-2BP30





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