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Data sheet 3RP25 05-1AW30

Figure similar

TIME REL., MULTI-FUNCTION, 1 CO CONTACT, 13 FUNCTIONS, 15 TIME SET. RANGES, (1, 3, 10, 30, 100), (S/MIN/HR), 12...240V AC/DC AT AC 50/60HZ, LED, SCREW TERMINAL

General technical data:		
product brand name		SIRIUS
Product designation		timing relay
mounting position		any
Product function at the relay outputs Switchover delayed/without delay		No
Product function non-volatile		No
Product component		
• Relay output		Yes
• semi-conductor output		No
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-40 ... +85
• during transport	°C	-40 ... +85
Relative humidity		
• during operation	%	15 ... 70
EMC emitted interference acc. to IEC 61812-1		EN 61000-6-4(3)
EMI immunity acc. to IEC 61812-1		EN 61000-6-2
Conducted interference BURST acc. to IEC 61000-4-4		2 kV network connection / 1 kV control connection
Conducted interference conductor-earth SURGE acc. to IEC 61000-4-5		2 kV
Conducted interference conductor-conductor SURGE acc. to IEC 61000-4-5		1 kV

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Electrostatic discharge acc. to IEC 61000-4-2		4 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m
Surge voltage resistance Rated value	V	4 000
Active power loss total typical	W	2
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750		K
Reference code acc. to DIN EN 81346-2		K
Category acc. to EN 954-1		none
Protection against electrical shock		finger-safe
Protection class IP		IP20
Mechanical service life (switching cycles) typical		10 000 000
Electrical endurance (switching cycles) at AC-15 at 230 V typical		100 000
Operating frequency with 3RT2 contactor maximum	1/h	5 000
Shock resistance acc. to IEC 60068-2-27		11g / 15 ms
Relative repeat accuracy	%	1
Recovery time	ms	150
Minimum ON period	ms	35
Degree of pollution		3
Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 Rated value	V	300
Relative setting accuracy relating to full-scale value	%	5

Switching Function:		
Switching function		
• ON-delay		Yes
• ON-delay/instantaneous contact		No
• passing make contact		Yes
• passing make contact/instantaneous contact		No
• OFF delay		Yes
• flashing asymmetrically starting with interval		No
• flashing asymmetrically starting with pulse		No
• flashing symmetrically starting with pulse		Yes
• flashing symmetrically starting with pulse/instantaneous		No
• flashing symmetrically starting with interval		Yes
• flashing symmetrically starting with interval/instantaneous		No
• star-delta circuit		Yes
• star-delta circuit with delay time		No
Switching function with control signal		
• additive ON delay		Yes
• passing break contact		Yes

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• OFF delay		Yes
• pulse-shaping		Yes
• OFF delay/instantaneous		No
• ON-delay/OFF-delay/instantaneous		No
• passing break contact/instantaneous		No
• additive ON delay/instantaneous		No
• ON-delay/OFF-delay		Yes
• passing make contact		Yes
• passing make contact/instantaneous contact		No
• pulse delayed		Yes
• pulse delayed/instantaneous		No
• pulse-shaping/instantaneous		No
Switching function of interval relay with control signal		
• retrotriggerable with deactivated control signal/instantaneous contact		No
• retrotriggerable with activated control signal		Yes
• retrotriggerable with activated control signal/instantaneous contact		No
• retriggerable with deactivated control signal		Yes
Design of the control terminal non-floating		Yes
Control circuit/ Control:		
Adjustable time	s	0.05 ... 360 000
Type of voltage of the control supply voltage		AC/DC
Control supply voltage frequency 1	Hz	50 ... 60
Control supply voltage 1		
• with AC		
— at 50 Hz	V	12 ... 240
— at 60 Hz	V	12 ... 240
• for DC	V	12 ... 240
Operating range factor control supply voltage rated value		
• with AC		
— at 50 Hz		0.85 ... 1.1
— at 60 Hz		0.85 ... 1.1
• for DC		0.85 ... 1.1
Auxiliary circuit:		
Contact reliability of the auxiliary contacts		one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
Material of switching contacts		AgSnO2
Operating current of the auxiliary contacts		
• at AC-15		
— at 24 V	A	3

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— at 250 V	A	3
• at DC-13		
— at 24 V	A	1
— at 125 V	A	0.2
— at 250 V	A	0.1
Design of the fuse link for short-circuit protection of the auxiliary switch required		fuse gL/gG: 4 A
Thermal current	A	5
Switching capacity current		
• with inductive load	A	0.01 ... 3
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		1
• instantaneous contact		0

Installation/ mounting/ dimensions:		
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail
Width	mm	17.5
Height	mm	100
Depth	mm	90
Spacing required with side-by-side mounting		
• upwards	mm	0
• forwards	mm	0
• at the side	mm	0
• Backwards	mm	0
• downwards	mm	0
Spacing required for grounded parts		
• Backwards	mm	0
• at the side	mm	0
• upwards	mm	0
• forwards	mm	0
• downwards	mm	0
Spacing required for live parts		
• downwards	mm	0
• Backwards	mm	0
• at the side	mm	0
• forwards	mm	0

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• upwards	mm	0

Connections/ Terminals:

Design of the electrical connection for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-section		
• 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 conductors		
— stranded		1x (20 ... 12), 2x (20 ... 14)
— solid		1x (20 ... 12), 2x (20 ... 14)
Tightening torque	N·m	0.6 ... 0.8

Certificates/ approvals:

General Product Approval	Declaration of Conformity	other
EAC	CE EG-Konf.	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/industrymall

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RP25051AW30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RP25051AW30/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RP25051AW30&lang=en

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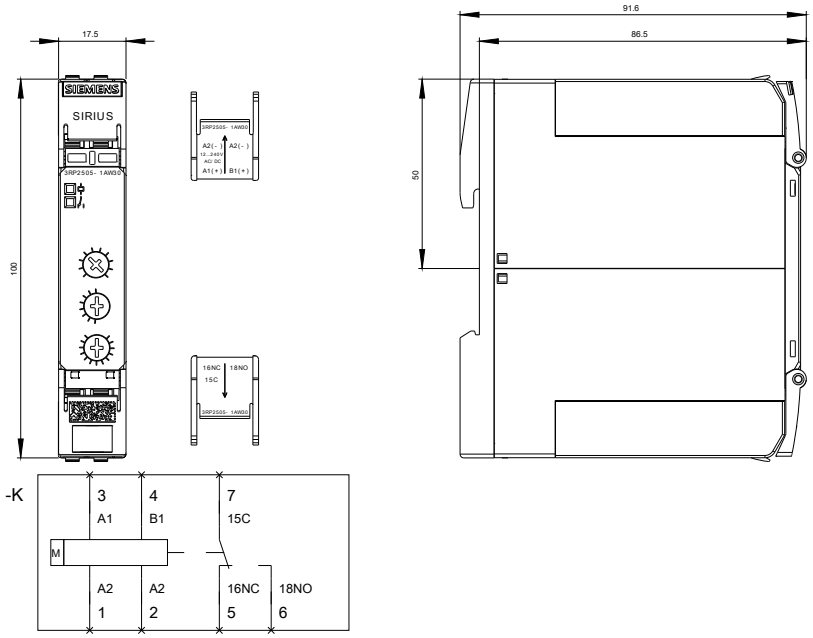

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