SIEMENS

Data sheet

3RP2005-1AP30



Timing relay, electronic Multifunction, 8 functions 1 change-over contact 24 V AC/DC, 200 to 240 V AC at 50/60 Hz AC 0.05 s to 100 h Overall width 45 mm screw terminal

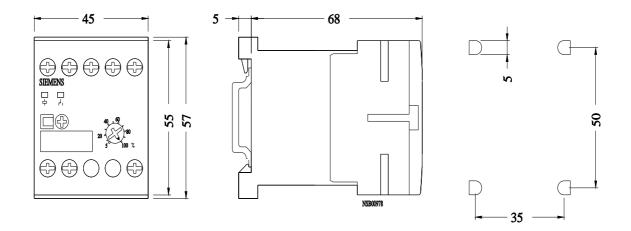
10/2015-AL30	
product brand name	SIRIUS
product designation	timing relay
design of the product	Multifunctional
product type designation	3RP20
General technical data	
product component	
relay output	Yes
 semi-conductor output 	No
product extension required remote control	No
product extension optional 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 kV
degree of pollution	3
surge voltage resistance rated value	4 000 V
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 (operating cycles) typical	10 000 000
electrical endurance (operating cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.05 100 s
relative setting accuracy relating to full-scale value	5 %; +/-
thermal current	5 A
minimum ON period	35 ms
recovery time	150 ms
reference code according to IEC 81346-2	К
relative repeat accuracy	1 %; +/-
influence of the surrounding temperature	±5 %
power supply influence	±1 %
Substance Prohibitance (Date)	05/01/2012
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 2 at AC	
• at 50 Hz	200 240 V
• at 60 Hz	200 240 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	
	0.05
• 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
Switching Function	
switching function	
ON-delay	Yes
 ON-delay/instantaneous contact 	No
 passing make contact 	Yes
 passing make contact/instantaneous contact 	No
OFF delay	No
switching function	
 flashing symmetrically with interval start/instantaneous 	No
• flashing symmetrically with interval start	Yes
• 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	No
switching function with control signal	
additive ON-delay	Yes
 passing break contact 	Yes
 passing break contact/instantaneous 	No
OFF delay	Yes
OFF delay/instantaneous	No
pulse delayed	No
pulse delayed/instantaneous	No
pulse-shaping	Yes
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
design of the control terminal non-floating	Yes
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

• eldysd switching1• eldysd switching0• eldysd switching contacts at AC-15-• eldysd switching contacts at DC-13-• eldysd switching contacts at DC-13-• eldysd switching frequency with 3R12 contactor maximum5000 1thContact reliability of switching contacts0contact reliability of switching contacts0contact reliability of switching contacts0contact reliability of switching contacts0Product function0reliability contacts according to EC 6100-4-10NoEncontagenet contact visibility contactsNoEncontagenet contact visibility contactsNoEncontagenet contact visibility contactsNoEncontact visibility contacts according to EC 6100-4-10NoEncontact visibility contacts according to EC 6100-4-10NoEncontact visibility contacts according to EC 6100-4-10NoEncontact visibility according to EC 6100-4-101NVedds to contactor-enablity1NVedds to contactor-enablity and part of EC 6100-4-101NVedds to contactor-enablity to EC 6100-4-101NVedds to contactor-enablity to EC 6100-4-21NVfields based interference according to EC 6100-4-21NVedds to contactor-enablity to EC 6100-4-101NVfields based interference according to EC 6100-4-101NVedds to contactor-enable to EC 6100-4-101NVfields based interference according to EC 6100-4-101NVfields based interference according to EC 6100-4-101		0			
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operational current of auxiliary contacts at AC-15 3 A • at 24 V 3 A • at 25 V 3 A • operational current of auxiliary contacts at DC-13 • • at 24 V 1 A • at 25 V 0.1 A Operational current of auxiliary contacts 000 1/h • at 26 V 0.1 A Operating frequency with 3RT2 contactor maximum 5000 1/h Contact reliability of auxiliary contacts one incorrect swithing operation of 100 million switching operations (17 V, 5 Contact reliability of auxiliary contacts according to LC 5000 1/h F10000 1/h Product function					
• 12 AV 3 A operational current of auxiliary contacts at DC-13 • A • 12 AV 1 A • • 12 SV 02 A • • 12 SV 01 A • • 012 SV 01 A • • 012 SV 01 A • 012 SV 02 A • • 012 SV 01 A contact rating of auxiliary contacts according to UL R300 / B300 Protect function • • • non-vocatib No Electromagnetic compatibility EN 61000-64(3) EMC immunity according to EC 61912-1 EN 61000-642 EMC immunity according to EC 61912-1 EN 61000-642 Edd based Interference according to EC 61000-45 24V • due to conductor-conductor surg according to EC 61000-45 14V • due to conductor-conductor surg according to EC 61000-45 14V • due to conductor-conductor surg according to EC 61000-45 14V • due to conductor-conductor surg according to EC 61000-45 14V • due to conductor-conductor surg according to EC 61000-45 14V • due to conductor-conductor surg according to EC 61000-45 14V • due to conductor-conductor surg according to EC 61000-45 14V • due to		0			
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operational current of auxiliary contacts at DC-13 • at 24 V • at 25 V • a					
1.2 4 V 1.2 A ••••••••••••••••••••••••••••••••••••		3 A			
• at 125 V 0.1 A • perating frequency with 3RT2 contactor maximum 5 000 1/h contact reliability of auxiliary contacts cm extra reliability of auxiliary contacts cm product function cm product function No Enternagnetic compatibility END 18300 Enternagnetic compatibility END 18000-84(3) Enternagnetic contactonagnetic contactonagneticon 18000					
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mA) mA) contact rating of auxiliary contacts according to UL R300 / R300 https://Outputs R300 / R300 product function No ENC emitted interference according to IEC 61912-1 EN 61000-6-4(3) ENC emitted interference according to IEC 61000-4-1 EN 61000-6-2 conducted interference according to IEC 61000-4-3 2 kV network connection / 1 kV control connection - due to burst according to IEC 61000-4-3 1 kV - due to conductor-canductor surge according to IEC 61000-4-2 1 kV - due to conductor-canductor surge according to IEC 61000-4-2 1 kV - due to conductor-canductor surge according to IEC 61000-4-2 1 kV electrosatic discharge according to IEC 61000-4-3 1 kV electrosatic discharge according to IEC 61000-4-3 1 kV electrosatic discharge according to IEC 61000-4-3 1 kV forder transition 1 kV 1 kV <tr< td=""><td></td><td></td></tr<>					
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electrostatic discharge according to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge Safety rolated data protection class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front type of insulation Basic insulation connections / forminals product component removable terminal for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection cross-section solid for AWG cables suid sci.15 mm²), 2x (0,75 2,5 mm²) finely stranded with core end processing for AWG cables conductor cross-section solid solid suid strainded ta14 strainded of the connection screw mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height with side-by-side mounting <l< td=""><td></td><td>1 KV</td></l<>		1 KV			
Safety rolated data protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front type of insulation Basic insulation category according to EN 954-1 none Connections/ Torminals product component removable terminal for auxiliary and control circuit No screw-type of electrical connection for auxiliary and control circuit screw-type terminals type of olectrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections screw-type terminals • solid 2x (0.51,5 mm³), 2x (0,75 2,5 mm³) • for AWG cables solid 2x (18 14) connectable conductor cross-section 0.5 2.5 mm³ • solid 0.5 2.5 mm³ • for AWG cables solid 0.5 2.5 mm³ • for AWG cables conductor cross-section screw-type terminals • solid 0.5 2.5 mm³ • solid 0.5 2.5 mm³ • solid 0.5 2.5 mm³ • solid 18 14 • stranded 18 14 tightening torque 0.8 1.2 N·m <td< td=""><td>field-based interference according to IEC 61000-4-3</td><td colspan="4">10 V/m</td></td<>	field-based interference according to IEC 61000-4-3	10 V/m			
protection class IP on the front according to IEC 60529 IIP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front type of insulation Basic insulation category according to EN 954-1 none Connections/ Terminals No product component removable terminal for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals • solid 2x (0,51,5 mm ³), 2x (0,75 2,5 mm ³) • finely stranded with core end processing 2x (18 14) • for AWG cables solid 2x (18 14) • for AWG cables stranded 2x (18 14) • condectable conductor cross-section 0.5 2.5 mm ³ • solid 18 14		4 kV contact discharge / 8 kV air discharge			
Iouch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front type of insulation Basic insulation category according to EN 954-1 none Connections/Terminals	Safety related data				
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Joint Actions Joine Category according to EN 954-1 none Connections/Terminals none product component removable terminal for auxiliary and control circuit No type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connectable conductor cross-sections 2x (0.5 1,5 mm³), 2x (0.75 2,5 mm³) • for AWG cables stranded 2x (18 14) connectable conductor cross-section 0.5 2,5 mm² • finely stranded with core end processing 0.5 2,5 mm² • finely stranded with core end processing 0.5 2,5 mm² • finely stranded with core end processing 0.5 2,5 mm² • solid 0.5 2,5 mm² • solid 18 14 • stranded 18 14 • stranded 18 14 • stranded 18 14 tightening torque 0.8 1,2 Nm design of the thread of the connection screw M3 Installation/ mounting dimensions any mounting position any </td <td>touch protection on the front according to IEC 60529</td> <td></td>	touch protection on the front according to IEC 60529				
Connections/ Terminals No product component removable terminal for auxiliary and control circuit No type of electrical connection for auxiliary and control circuit screw-type terminals type of electrical connectable conductor cross-sections • solid • solid 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) • finely stranded with core end processing 2x (18 14) • for AWG cables solid 2x (18 14) • for AWG cables stranded 2x (18 14) connectable conductor cross-section 0.5 2.5 mm² • solid 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • solid 18 14 • solid 18 14 • solid 18 14 • stranded 18 12 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions any mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm <td></td> <td>Basic insulation</td>		Basic insulation			
product component removable terminal for auxiliary and control circuit No type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections 		none			
control circuit screw-type terminals type of electrical connection for auxiliary and control circuit screw-type terminals type of connectable conductor cross-sections 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) • finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) • for AWG cables stranded 2x (18 14) • for AWG cables stranded 2x (18 14) • connectable conductor cross-section					
type of connectable conductor cross-sections • solid 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) • finely stranded with core end processing 2x (0,51,5 mm²), 2x (0,75 2,5 mm²) • for AWG cables solid 2x (18 14) • connectable conductor cross-section 2x (18 14) • solid 0.5 2,5 mm² • solid 18 14 • stranded with core end processing 0.5 2,5 mm² • solid 18 14 • stranded 18 14 • stranded 18 14 • stranded 18 14 itstallation/ mounting/ dimensions mounting position mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 67 mm width 45 mm depth 73 mm required spacing 0 mm • with side-by-side mounting 0 mm - bac	control circuit				
 solid 2x (0,51,5 mm³), 2x (0,752,5 mm³) finely stranded with core end processing 2x (0,51,5 mm²), 2x (0,752,5 mm²) for AWG cables solid 2x (1814) for AWG cables stranded 2x (1814) connectable conductor cross-section solid 0.52.5 mm² AWG number as coded connectable conductor cross section solid stranded 1814 stranded 1814 if ght infig torque 0.812.N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions fastening method screw and snap-on mounting onto 35 mm DIN rail height f7 mm width 45 mm depth 73 mm required spacing with side-by-side mounting forwards 0 mm o mm 		screw-type terminals			
• finely stranded with core end processing2x (0, 5 1, 5 mm²), 2x (0, 75 2, 5 mm²)• for AWG cables solid2x (18 14)• for AWG cables stranded2x (18 14)connectable conductor cross-section• solid0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²AWG number as coded connectable conductor crosssection• solid18 14• stranded18 14• stranded0.8 12 N·mdesign of the thread of the connection screwM3Installation/ mounting/ dimensions 27 mmmounting positionanyfastening method 57 mmheight 57 mmwidth 45 mmdepth 73 mmrequired spacing 73 mm• with side-by-side mounting0 mm- forwards0 mm- backwards0 mm					
• for AWG cables solid 2x (18 14) • for AWG cables stranded 2x (18 14) connectable conductor cross-section					
• for AWG cables stranded 2x (18 14) connectable conductor cross-section 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² AWG number as coded connectable conductor cross section 0.5 2.5 mm² • solid 18 14 • stranded 18 14 • stranded 0.8 12 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing 0 mm • with side-by-side mounting 0 mm - forwards 0 mm - backwards 0 mm					
connectable conductor cross-section 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² AWG number as coded connectable conductor cross section 9.5 2.5 mm² • solid 18 14 • stranded 18 14 • stranded 18 14 • stranded 0.8 1.2 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting - forwards 0 mm - backwards 0 mm					
 solid 0.5 2.5 mm² finely stranded with core end processing 0.5 2.5 mm² AWG number as coded connectable conductor cross section solid 18 14 stranded 18 14 stranded 0.8 1.2 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail height s7 mm width 45 mm depth r3 mm required spacing with side-by-side mounting forwards O mm o mm backwards 		2x (18 14)			
• finely stranded with core end processing 0.5 2.5 mm² AWG number as coded connectable conductor cross section - • solid 18 14 • stranded 18 14 • stranded 0.8 1.2 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting • with side-by-side mounting 0 mm — forwards 0 mm — backwards 0 mm					
AWG number as coded connectable conductor cross section - • solid 18 14 • stranded 18 14 tightening torque 0.8 1.2 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing 0 mm • with side-by-side mounting 0 mm - forwards 0 mm					
• solid 18 14 • stranded 18 14 tightening torque 0.8 1.2 N·m design of the thread of the connection screw M3 Installation/ mounting/ dimensions mounting position mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing 0 mm - forwards 0 mm - backwards 0 mm	AWG number as coded connectable conductor cross	U.Ə 2.5 mm*			
• stranded18 14tightening torque0.8 1.2 N·mdesign of the thread of the connection screwM3Installation/ mounting/ dimensionsM3mounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN railheight57 mmwidth45 mmdepth73 mmrequired spacing - forwards0 mm- backwards0 mm					
tightening torque0.8 1.2 N·mdesign of the thread of the connection screwM3Installation/mounting/ dimensionsanymounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN railheight57 mmwidth45 mmdepth73 mmrequired spacing - forwards0 mm- forwards0 mm- backwards0 mm					
design of the thread of the connection screw M3 Installation/ mounting/ dimensions any mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing or mit side-by-side mounting - forwards 0 mm - backwards 0 mm					
Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting - forwards 0 mm - backwards 0 mm					
mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing o mm - forwards 0 mm - backwards 0 mm					
fastening method screw and snap-on mounting onto 35 mm DIN rail height 57 mm width 45 mm depth 73 mm required spacing - forwards - forwards 0 mm - backwards 0 mm		any			
height 57 mm width 45 mm depth 73 mm required spacing - forwards - forwards 0 mm - backwards 0 mm					
width 45 mm depth 73 mm required spacing - forwards - forwards 0 mm - backwards 0 mm					
required spacing • with side-by-side mounting — forwards 0 mm — backwards 0 mm					
with side-by-side mounting — forwards O mm Dackwards O mm	depth				
forwards 0 mm backwards 0 mm	40041	73 mm			
— backwards 0 mm	•	73 mm			
	required spacing	73 mm			
— upwards 0 mm	• with side-by-side mounting				
	• with side-by-side mounting — forwards	0 mm			

- downwards			0 mm			
— at the side			0 mm			
 for grounded part 	S					
— forwards			0 mm			
- backwards			0 mm			
— upwards			0 mm			
— at the side			0 mm			
- downwards			0 mm			
 for live parts 						
— forwards			0 mm			
- backwards			0 mm			
— upwards			0 mm			
- downwards			0 mm			
— at the side			0 mm			
Ambient conditions						
installation altitude at he	ight above sea level max	ximum	2 000 m			
ambient temperature						
 during operation 			-25 +60 °C			
 during storage 			-40 +85 °C			
 during transport 			-40 +85 °C			
relative humidity during	operation		10 95 %			
Certificates/ approvals						
General Product Appr	oval			-	мс	Declaration of Con-
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Declaration of Con- formity	Test Certificates	Marine / Shipp	ving			
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Marine / Shipping	other					
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Further information	to exit the Russian mar	ket (see here).				
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