SIEMENS

Data sheet

3RP1540-1AB31



Timing relay, electronic Phased-out product !!! For further information, please contact our sales department OFF delay 1 change-over contact, without auxiliary voltage 9 time ranges, 0.05 s...600 s 24 V AC/DC with LED, Screw terminal

product brand name SIRUS product designation timing relay product type designation 3RP15 Central technical data		
product type designation 3RP15 General tochnical data	product brand name	SIRIUS
General technical data product component • relay output • emi-conductor output No product extension required 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 test voltage for isolation test degree of pollution 3 surge voltage resistance rated value 4 000 V protect cass IP IP20 shock resistance acc. to IEC 60068-2-27 11g / 15 ms vibration resistance acc. to IEC 60068-2-26 10 100 000 electrical endurance (switching cycles) typical 100 000 electrical endurance (switching cycles) tat AC-15 at 230 V typical adjustable time 0.05 600 s relative setting accuracy relating to full-scale value 5 % relative repeat accuracy 150 ms reference code acc. to IEC 81346-2 K relative repeat accuracy 150 ms reference code acc. to IEC 81346-2 K relative repeat accuracy 150 ms reference code acc. to IEC 81346-2<	product designation	timing relay
product component • relay output Yes • semi-conductor output No product extension required remote control No power loss [W] maximum 2 W insulation voltage for overvoltage category III according to 300 V LEC 60664 with degree of pollution 3 rated value 2 kV degree of pollution 3 surge voltage resistance rated value 4 000 V protection class IP IP20 shock resistance acc. to IEC 60068-2-27 11g / 15 ms vibration resistance acc. to IEC 60068-2-27 11g / 15 ms vibration resistance acc. to IEC 60068-2-27 10 55 Hz / 0.35 mm mechanical service life (switching cycles) typical 100 000 electrical endurance (switching cycles) at AC-15 at 230 V 100 000 typical 0.05 600 s relative setting accuracy relating to full-scale value 5 % thermal current 5 A minimum ON period 200 ms reference code acc. to IEC 81346-2 K relative repeat accuracy 1 % influence of the surrounding temperature 45 % power supply influence 41 % substance Prohibitance (Date) 28.05.2009 Control supply voltage 1 at AC 24 V • at 60 Hz rated value 24	product type designation	3RP15
• 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 300 V IEC 60664 with degree of pollution 3 rated value 2 kV degree of pollution 3 surge voltage resistance rated value 4 000 V protection class IP IP20 shock resistance acc. to IEC 60068-2-27 11g / 15 ms vibration resistance acc. to IEC 60068-2-6 10 mechanical service life (switching cycles) typical 10 000 000 electrical endurance (switching cycles) typical 100 000 adjustable time 0.05 600 s relative setting accuracy relating to full-scale value 5 % thermal current 5 A minimum ON period 200 ms reference code acc. to IEC 81346-2 K relative repeat accuracy 1% influence of the surrounding temperature 45 % Substance Prohibitance (Date) 28 05 2009 Control supply voltage 1 at AC 40 V • at 60 Hz rated value 24 V • at 60 Hz rated value 24 V • at 60 Hz rated value <	General technical data	
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minimum ON period200 msrecovery time150 msreference code acc. to IEC 81346-2Krelative repeat accuracy1 %influence of the surrounding temperature±5 %power supply influence±1 %Substance Prohibitance (Date)28.05.2009Control circuit/ Controltype of voltage of the control supply voltageAC/DCcontrol supply voltage 1 at AC• at 50 Hz rated value24 V• at 60 Hz rated value24 Vcontrol supply voltage frequency 150 60 Hzcontrol supply voltage 142 V	relative setting accuracy relating to full-scale value	5 %
recovery time150 msreference code acc. to IEC 81346-2Krelative repeat accuracy1 %influence of the surrounding temperature±5 %power supply influence±1 %Substance Prohibitance (Date)28.05.2009Control circuit/ ControlKtype of voltage of the control supply voltageAC/DCcontrol supply voltage 1 at AC24 V• at 50 Hz rated value24 Vcontrol supply voltage frequency 150 60 Hzcontrol supply voltage 1424 V• at DC rated value24 V	thermal current	5 A
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power supply influence ±1 % Substance Prohibitance (Date) 28.05.2009 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 frequency 1 50 60 Hz control supply voltage 1 40 Hz • at DC rated value 24 V	relative repeat accuracy	1 %
Substance Prohibitance (Date) 28.05.2009 Control circuit/ Control 28.05.2009 type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC 4000000000000000000000000000000000000	influence of the surrounding temperature	±5 %
Control circuit/ Control type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC 24 V • at 50 Hz rated value 24 V • at 60 Hz rated value 24 V control supply voltage frequency 1 50 60 Hz control supply voltage 1 40 Hz • at DC rated value 24 V	power supply influence	±1 %
type of voltage of the control supply voltageAC/DCcontrol supply voltage 1 at AC• at 50 Hz rated value24 V• at 60 Hz rated value24 Vcontrol supply voltage frequency 150 60 Hzcontrol supply voltage 124 V	Substance Prohibitance (Date)	28.05.2009
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 at 50 Hz rated value at 60 Hz rated value 24 V 24 V control supply voltage frequency 1 50 60 Hz control supply voltage 1 at DC rated value 24 V 	type of voltage of the control supply voltage	AC/DC
• at 60 Hz rated value 24 V control supply voltage frequency 1 50 60 Hz control supply voltage 1 24 V • at DC rated value 24 V	control supply voltage 1 at AC	
control supply voltage frequency 1 50 60 Hz control supply voltage 1 24 V	• at 50 Hz rated value	24 V
control supply voltage 1 • at DC rated value 24 V	• at 60 Hz rated value	24 V
• at DC rated value 24 V	control supply voltage frequency 1	50 60 Hz
	control supply voltage 1	
operating range factor control supply voltage rated	at DC rated value	24 V
	operating range factor control supply voltage rated	

	_
value at DC	
initial value	0.7
• full-scale value	1.25
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	No
ON-delay/instantaneous contact	No
passing make contact	No
 passing make contact/instantaneous contact 	No
• OFF delay	Yes
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	No
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	
material of switching contacts	AgNi
number of NC contacts delayed switching	0
number of NO contacts delayed switching	0
number of CO contacts delayed switching	1
operational current of auxiliary contacts at AC-15	
• at 24 V	3 A

• at 250 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 125 V	0.2 A
• at 250 V	0.1 A
operating frequency with 3RT2 contactor maximum	5 000 1/h
contact reliability of auxiliary contacts	one incorrect switching operation of 100 million switching operations (17 V, 5 mA) $$
contact rating of auxiliary contacts according to UL	R300 / B300
Inputs/ Outputs	
product function	
non-volatile	No
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 61812-1	EN 61000-6-4(3)
EMC immunity acc. to IEC 61812-1	EN 61000-6-2
conducted interference	
 due to burst acc. to IEC 61000-4-4 	2 kV network connection / 1 kV control connection
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge
Safety related data	
protection class IP on the front acc. to IEC 60529	IP20
type of insulation	Basic insulation
category acc. to EN 954-1	none
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connectable conductor cross-sections	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
 at AWG cables solid 	2x (20 14)
 at AWG cables stranded 	2x (20 14)
connectable conductor cross-section	
• solid	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
AWG number as coded connectable conductor cross section	
• solid	20 14
• stranded	20 14
tightening torque	0.8 1.2 N·m
design of the thread of the connection screw	M3
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
height	83 mm
width	22.5 mm
depth	91 mm
required spacing	
• with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
for grounded parts	
— forwards	0 mm
— backwards	0 mm

— upwards					
		0 mr	1		
— at the side	2	0 mr	า		
- downward	S	0 mr	า		
 for live parts 					
— forwards		0 mr	า		
- backwards	3	0 mr	า		
— upwards		0 mr	า		
— downward	S	0 mr	า		
— at the side	2	0 mr	n		
mbient conditions					
installation altitude at	height above sea level	maximum 2 00) m		
ambient temperatur	e				
 during operatio 	n	-25 .	+60 °C		
 during storage 		-40 .	+85 °C		
 during transpor 	t	-40 .	+85 °C		
relative humidity durir	ng operation	10	95 %		
ertificates/ approval					
General Product Ap	oproval			EMC	Declaration of Conformity
				-	
(Ch	(m)	س	FAL		Miscellaneous
			CUL	Ś	
CSA	ccc	UL		RCM	
Declaration of Conformity	Test Certificates	Marine / Shipping			
"	<u>Type Test Certific-</u>		Llovds	(A)	
CE	Type Test Certific- ates/Test Report		Llovd's Register		
C C EG-Konf.		BUREAU	Hoyd's Register	PRS	RINA
CE EG-Konf.		B U R E A U VERITAS	Hoyd's Kegister us	PRS	RINA
CE EG-Konf.		BUREAU VERITAS	Hoyd's Register Lirs	PRS	RINA
EG-Konf. Marine / Shipping		EUREAU VERITAS	Lloyds Register LRS	Prs	RINA
				-	RINA
		BUREAU BUREAU VERITAS	Lloyds us	Special Test Certific-	RINA
				-	RINA
				Special Test Certific-	RINA
				Special Test Certific-	RINA
				Special Test Certific-	RINA
Marine / Shipping				Special Test Certific-	RINA
Marine / Shipping	ates/Test Report	Confirmation		Special Test Certific-	RINA
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Marine / Shipping	winloadcenter (Catalo com/ic10 e ordering system) iemens.com/mall/en/en or tion.siemens.com/WW// lanuals, Certificates, C ry.siemens.com/cs/ww// oduct images, 2D dime	<u>Confirmation</u> gs, Brochures,) /Catalog/product?mlfb= /CAXorder/default.aspx/ Characteristics, FAQs, en/ps/3RP1540-1AB31 ension drawings, 3D n	<u>Miscellaneous</u> <u>3RP1540-1AB31</u> <u>?lang=en&mlfb=3RP1</u>) nodels, device circuit	<u>Special Test Certific- ate</u> 540-1AB31	CTOS,)
Marine / Shipping	wnloadcenter (Catalo com/ic10 e ordering system) iemens.com/mall/en/en or tion.siemens.com/WW// lanuals, Certificates, C ry.siemens.com/cs/ww// oduct images, 2D dimen n.siemens.com/bilddb/c	<u>Confirmation</u> gs, Brochures,) //Catalog/product?mlfb= //CAXorder/default.aspx/ Characteristics, FAQs, en/ps/3RP1540-1AB31	<u>Miscellaneous</u> <u>3RP1540-1AB31</u> <u>?lang=en&mlfb=3RP1</u>) nodels, device circuit	<u>Special Test Certific- ate</u> 540-1AB31	Cros,)
Marine / Shipping	eventoadcenter (Catalo com/ic10 e ordering system) iemens.com/mall/en/en or tion.siemens.com/WW// lanuals, Certificates, C ry.siemens.com/cs/ww// oduct images, 2D dimens.com/bilddb/co n.siemens.com/bilddb/co	<u>Confirmation</u> gs, Brochures,) /Catalog/product?mlfb= /CAXorder/default.aspx/ Characteristics, FAQs, en/ps/3RP1540-1AB31 ension drawings, 3D n	<u>Miscellaneous</u> <u>3RP1540-1AB31</u> <u>?lang=en&mlfb=3RP1</u>) nodels, device circuit 1540-1AB31⟨=en	<u>Special Test Certific- ate</u> 540-1AB31	Cros,)

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