

electronic timing relay with semiconductor output, time range 5 ... 100 s, 90 ... 240 V AC / DC, OFF delay, with varistor with screw terminal for contactors size S0 ... S3 ! Phased-out product!
Successor is SIRIUS 3RT2



Product brand name	SIRIUS
Product designation	timing relay
Design of the product	With OFF-delay
Product type designation	3RT19

General technical data	
Size of contactor can be combined company-specific	S0 ... S3
Product component	
• semi-conductor output	Yes
Product extension required remote control	No
Product extension optional remote control	No
Degree of pollution	3
Surge voltage resistance rated value	4 000 V
Protection class IP	
• of the terminal	IP20
Shock resistance	
• acc. to IEC 60068-2-27	11g / 15 ms
Mechanical service life (switching cycles)	
• typical	100 000 000
Adjustable time	5 ... 100 s

Relative setting accuracy relating to full-scale value	15 %
Short-time current resistance (I _{cw}) limited to 10 ms	10 A
Minimum ON period	35 ms
Recovery time	150 ms
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
Reference code acc. to DIN EN 61346-2	K
Relative repeat accuracy	1 %

Product Function

Product function star-delta circuit	No
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Control circuit/ Control

Type of voltage of the control supply voltage	AC/DC
Control supply voltage 1 at AC	
• at 50 Hz	90 ... 240 V
• at 60 Hz	90 ... 240 V
Control supply voltage frequency 1	50 ... 60 Hz
Control supply voltage 1	
• at DC	90 ... 240 V
Operating range factor control supply voltage rated value at DC	
• initial value	0.8
• Full-scale value	1.1
Operating range factor control supply voltage rated value at AC at 50 Hz	
• initial value	0.8
• Full-scale value	1.1
Operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.8
• Full-scale value	1.1
Design of the surge suppressor	with varistor

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 starting with interval/instantaneous	No

<ul style="list-style-type: none"> • flashing symmetrically starting with interval 	No
<ul style="list-style-type: none"> • flashing symmetrically starting with pulse/instantaneous 	No
<ul style="list-style-type: none"> • flashing symmetrically starting with pulse 	No
<ul style="list-style-type: none"> • flashing asymmetrically starting with interval 	No
<ul style="list-style-type: none"> • flashing asymmetrically starting with pulse 	No
Switching function	
<ul style="list-style-type: none"> • fixed clock cycle beginning with pulse 	No
<ul style="list-style-type: none"> • fixed clock cycle beginning with interval 	No
Switching function	
<ul style="list-style-type: none"> • variably clocked start with impulse 	No
<ul style="list-style-type: none"> • variably clocked start with interval 	No
Switching function	
<ul style="list-style-type: none"> • star-delta circuit with delay time 	No
<ul style="list-style-type: none"> • star-delta circuit 	No
Switching function with control signal	
<ul style="list-style-type: none"> • additive ON delay 	No
<ul style="list-style-type: none"> • passing break contact 	No
<ul style="list-style-type: none"> • passing break contact/instantaneous 	No
<ul style="list-style-type: none"> • OFF delay 	Yes
<ul style="list-style-type: none"> • OFF delay/instantaneous 	No
<ul style="list-style-type: none"> • pulse delayed 	No
<ul style="list-style-type: none"> • pulse delayed/instantaneous 	No
<ul style="list-style-type: none"> • pulse-shaping 	No
<ul style="list-style-type: none"> • pulse-shaping/instantaneous 	No
<ul style="list-style-type: none"> • additive ON delay/instantaneous 	No
<ul style="list-style-type: none"> • ON-delay/OFF-delay 	No
<ul style="list-style-type: none"> • ON-delay/OFF-delay/instantaneous 	No
<ul style="list-style-type: none"> • passing make contact 	No
<ul style="list-style-type: none"> • passing make contact/instantaneous contact 	No
Switching function of interval relay with control signal	
<ul style="list-style-type: none"> • retrotriggerable with deactivated control signal/instantaneous contact 	No
<ul style="list-style-type: none"> • retrotriggerable with activated control signal 	No
<ul style="list-style-type: none"> • retrotriggerable with activated control signal/instantaneous contact 	No
<ul style="list-style-type: none"> • retriggerable with deactivated control signal 	No
Design of the control terminal non-floating	Yes
Auxiliary circuit	
Number of NC contacts	
<ul style="list-style-type: none"> • delayed switching 	0
<ul style="list-style-type: none"> • instantaneous contact 	0

Number of NO contacts	
• delayed switching	1
• instantaneous contact	0
Number of CO contacts	
• delayed switching	0
• instantaneous contact	0
Switching capacity current with inductive load	0.5 A

Inputs/ Outputs

Product function	
• at the relay outputs Switchover delayed/without delay	No
• non-volatile	No

Electromagnetic compatibility

EMI 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-bound parasitic coupling 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 against electrical shock	finger-safe
Type of insulation	Basic insulation
Category acc. to EN 954-1	none

Connections/ Terminals

Product function	
• removable terminal for auxiliary and control circuit	No
Type of electrical connection	
• for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• solid	1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²)
• finely stranded with core end processing	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²)
• at AWG conductors solid	2x (20 ... 14)
• at AWG conductors stranded	2x (20 ... 14)
Connectable conductor cross-section	
• solid	0.5 ... 4 m ²
• finely stranded with core end processing	0.5 ... 2.5 m ²

AWG number as coded connectable conductor cross section	
• solid	18 ... 14
• stranded	18 ... 14

Installation/ mounting/ dimensions

Mounting position	any
Mounting type	clip-on
Height	26 mm
Width	45 mm
Depth	50 mm
Required spacing	
• with side-by-side mounting	
— forwards	0 m
— Backwards	0 m
— upwards	0 m
— downwards	0 m
— at the side	0 m
• for grounded parts	
— forwards	0 m
— Backwards	0 m
— upwards	0 m
— at the side	0 m
— downwards	0 m
• for live parts	
— forwards	0 m
— Backwards	0 m
— upwards	0 m
— downwards	0 m
— at the side	0 m

Ambient conditions

Installation altitude at height above sea level	
• maximum	2 000 m
Relative humidity	
• during operation	15 ... 95 %

Certificates/ approvals

General Product Approval	EMC	Functional Safety/Safety of Machinery
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[Type Examination Certificate](#)

Declaration of Conformity	Test Certificates	Marine / Shipping
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[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping	other	Railway
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[Confirmation](#)

[Miscellaneous](#)

[Special Test Certificate](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1926-2DH31>

Cax online generator

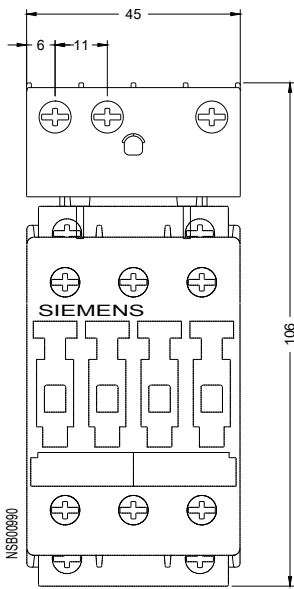
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1926-2DH31>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

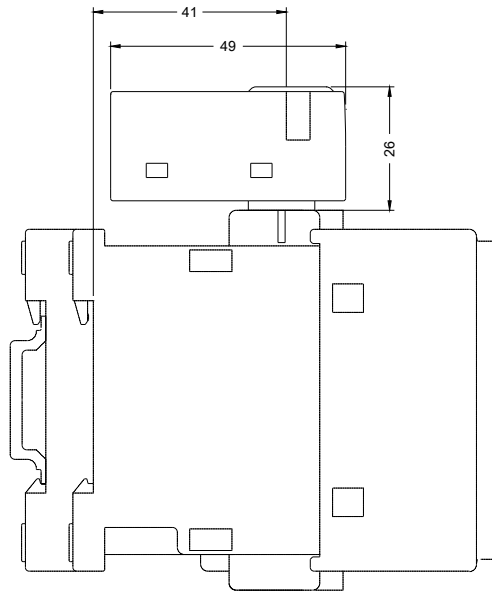
<https://support.industry.siemens.com/cs/ww/en/ps/3RT1926-2DH31>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1926-2DH31&lang=en



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