

solid-state time-delayed front-side auxiliary switch Time range
0.5...10 s, 100 ... 127 V AC, 1 NO contact, 1 NC contact ON delay,
for 3RT1



product brand name	SIRIUS
product designation	auxiliary switch
design of the product	slow-operating
product type designation	3RT19

General technical data	
size of contactor can be combined company-specific	S0 ... S12
<ul style="list-style-type: none"> product component semi-conductor output 	No
product extension required remote control	No
product extension optional remote control	No
<ul style="list-style-type: none"> insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value 	300 V
degree of pollution	3
surge voltage resistance rated value	4 000 V
<ul style="list-style-type: none"> protection class IP of the terminal 	IP20
<ul style="list-style-type: none"> shock resistance acc. to IEC 60068-2-27 	11g / 15 ms
<ul style="list-style-type: none"> vibration resistance acc. to IEC 60068-2-6 	10 ... 55 Hz: 0.35 mm

<ul style="list-style-type: none"> • mechanical service life (switching cycles) typical 	10 000 000
<ul style="list-style-type: none"> • Electrical endurance (switching cycles) at AC-15 at 230 V typical 	100 000
adjustable time	0.5 ... 10 s
Relative setting accuracy relating to full-scale value	15 %
<ul style="list-style-type: none"> • recovery time 	150 ms
reference code acc. to DIN EN 81346-2	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
control supply voltage 1 at AC	
<ul style="list-style-type: none"> • at 50 Hz • at 60 Hz 	100 ... 127 V 100 ... 127 V
control supply voltage frequency 1	50 ... 60 Hz
operating range factor control supply voltage rated value at AC at 50 Hz	
<ul style="list-style-type: none"> • initial value • full-scale value 	0.85 1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
<ul style="list-style-type: none"> • initial value • full-scale value 	0.85 1.1

Switching Function

switching function	
<ul style="list-style-type: none"> • ON-delay • ON-delay/instantaneous contact • passing make contact • passing make contact/instantaneous contact • OFF delay 	Yes No No No No
Switching function	
<ul style="list-style-type: none"> • flashing symmetrically starting with interval/instantaneous • flashing symmetrically starting with interval • flashing symmetrically starting with pulse/instantaneous • flashing symmetrically starting with pulse • flashing asymmetrically starting with interval • flashing asymmetrically starting with pulse 	No No No No No No

<ul style="list-style-type: none"> • switching function fixed clock cycle beginning with pulse 	No
<ul style="list-style-type: none"> • switching function 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
<ul style="list-style-type: none"> • Switching function with control signal additive ON delay 	No
<ul style="list-style-type: none"> • switching function with control signal passing break contact 	No
<ul style="list-style-type: none"> • Switching function with control signal passing break contact/instantaneous 	No
<ul style="list-style-type: none"> • Switching function with control signal OFF delay 	No
<ul style="list-style-type: none"> • Switching function with control signal OFF delay/instantaneous 	No
<ul style="list-style-type: none"> • Switching function with control signal pulse delayed 	No
<ul style="list-style-type: none"> • Switching function with control signal pulse delayed/instantaneous 	No
<ul style="list-style-type: none"> • switching function with control signal pulse-shaping 	No
<ul style="list-style-type: none"> • Switching function with control signal pulse-shaping/instantaneous 	No
<ul style="list-style-type: none"> • Switching function with control signal additive ON delay/instantaneous 	No
<ul style="list-style-type: none"> • Switching function with control signal ON-delay/OFF-delay 	No
<ul style="list-style-type: none"> • Switching function with control signal ON-delay/OFF-delay/instantaneous 	No
<ul style="list-style-type: none"> • Switching function with control signal passing make contact 	No
<ul style="list-style-type: none"> • Switching function with control signal 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	No
Short-circuit protection	
<ul style="list-style-type: none"> design of the fuse link for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 4 A
Auxiliary circuit	
<ul style="list-style-type: none"> number of NC contacts delayed switching 	1
<ul style="list-style-type: none"> number of NC contacts instantaneous contact 	0
<ul style="list-style-type: none"> number of NO contacts delayed switching 	1
<ul style="list-style-type: none"> number of NO contacts instantaneous contact 	0
<ul style="list-style-type: none"> number of CO contacts delayed switching 	0
<ul style="list-style-type: none"> number of CO contacts instantaneous contact 	0
<ul style="list-style-type: none"> Operating current of auxiliary contacts at AC-15 maximum 	3 A
Operating current of auxiliary contacts as NC contact at AC-15	
<ul style="list-style-type: none"> at 24 V 	3 A
<ul style="list-style-type: none"> at 250 V 	3 A
Operating current of auxiliary contacts as NO contact at AC-15	
<ul style="list-style-type: none"> at 24 V 	3 A
<ul style="list-style-type: none"> at 250 V 	3 A
operating current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> at 24 V 	1 A
<ul style="list-style-type: none"> at 125 V 	0.2 A
<ul style="list-style-type: none"> at 250 V 	0.1 A
Inputs/ Outputs	
<ul style="list-style-type: none"> product function at the relay outputs switchover delayed/without delay 	No
<ul style="list-style-type: none"> Product function non-volatile 	No
Electromagnetic compatibility	
EMI immunity	
<ul style="list-style-type: none"> acc. to IEC 61812-1 	EN 61000-6-2
<ul style="list-style-type: none"> conducted interference due to burst acc. to IEC 61000-4-4 	2 kV network connection / 1 kV control connection
<ul style="list-style-type: none"> Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
<ul style="list-style-type: none"> Conducted interference 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

<ul style="list-style-type: none"> product function removable terminal for auxiliary and control circuit 	No
<ul style="list-style-type: none"> type of electrical connection for auxiliary and control current circuit 	screw-type terminals
<ul style="list-style-type: none"> type of connectable conductor cross-sections solid 	1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²)
<ul style="list-style-type: none"> Type of connectable conductor cross-sections finely stranded with core end processing 	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²)
<ul style="list-style-type: none"> Type of connectable conductor cross-sections at AWG conductors solid 	2x (20 ... 14)
<ul style="list-style-type: none"> type of connectable conductor cross-sections at AWG conductors stranded 	2x (20 ... 14)
<ul style="list-style-type: none"> connectable conductor cross-section solid 	0.5 ... 4 m ²
<ul style="list-style-type: none"> connectable conductor cross-section finely stranded with core end processing 	0.5 ... 2.5 m ²
AWG number as coded connectable conductor cross section	
<ul style="list-style-type: none"> solid 	18 ... 14
<ul style="list-style-type: none"> stranded 	18 ... 14

Installation/ mounting/ dimensions

<ul style="list-style-type: none"> mounting position 	any
<ul style="list-style-type: none"> mounting type 	clip-on
height	46 mm
width	33 mm
depth	73 mm
required spacing	
<ul style="list-style-type: none"> with side-by-side mounting <ul style="list-style-type: none"> — forwards — backwards — upwards — downwards — at the side 	0 m 0 m 0 m 0 m 0 m
<ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> — forwards — backwards — upwards — at the side — downwards 	0 m 0 m 0 m 0 m 0 m

- for live parts
 - forwards
 - backwards
 - upwards
 - downwards
 - at the side

0 m
0 m
0 m
0 m
0 m

Ambient conditions

• installation altitude at height above sea level maximum	2 000 m
ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
relative humidity	
• during operation	15 ... 95 %

Certificates/ approvals

General Product Approval	EMC	Functional Safety/Safety of Machinery
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CCC



CSA



UL



RCM

[Type Examination Certificate](#)

Declaration of Conformity	Test Certificates	Marine / Shipping
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EG-Konf.

[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



ABS



PRS

Marine / Shipping	other	Railway
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RINA



RMRS



DNV-GL
DNVGL.COM/AF

[Confirmation](#)

[Miscellaneous](#)

[Special Test Certificate](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)
<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1926-2EC21>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1926-2EC21>

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

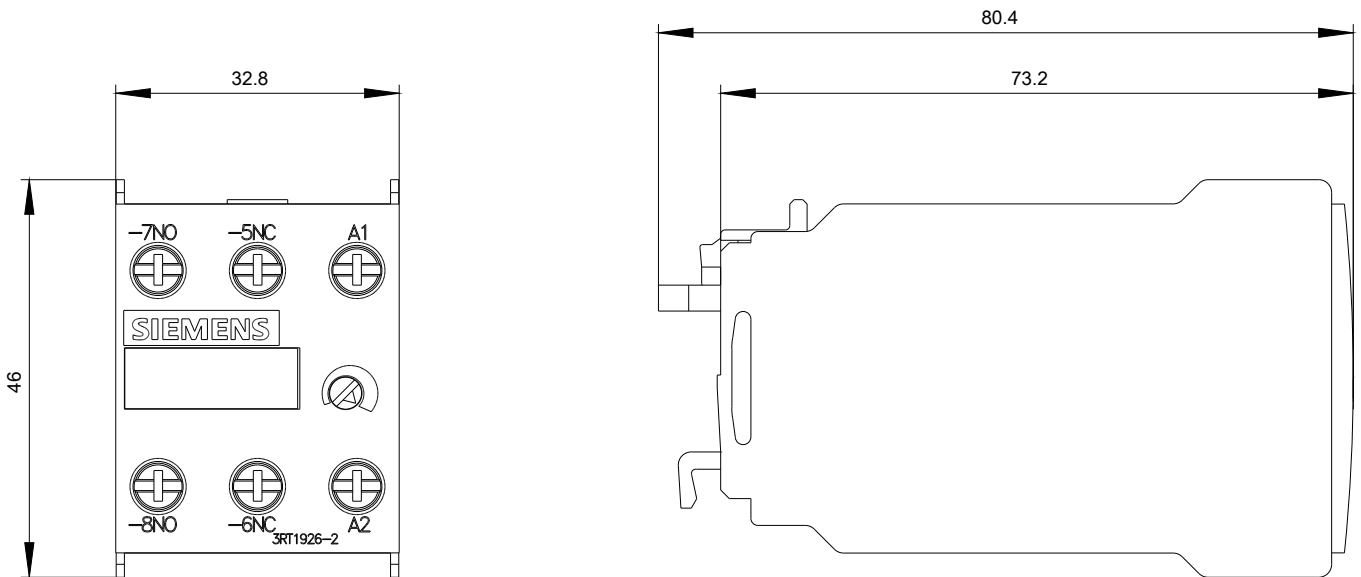
<https://support.industry.siemens.com/cs/ww/en/ps/3RT1926-2EC21>

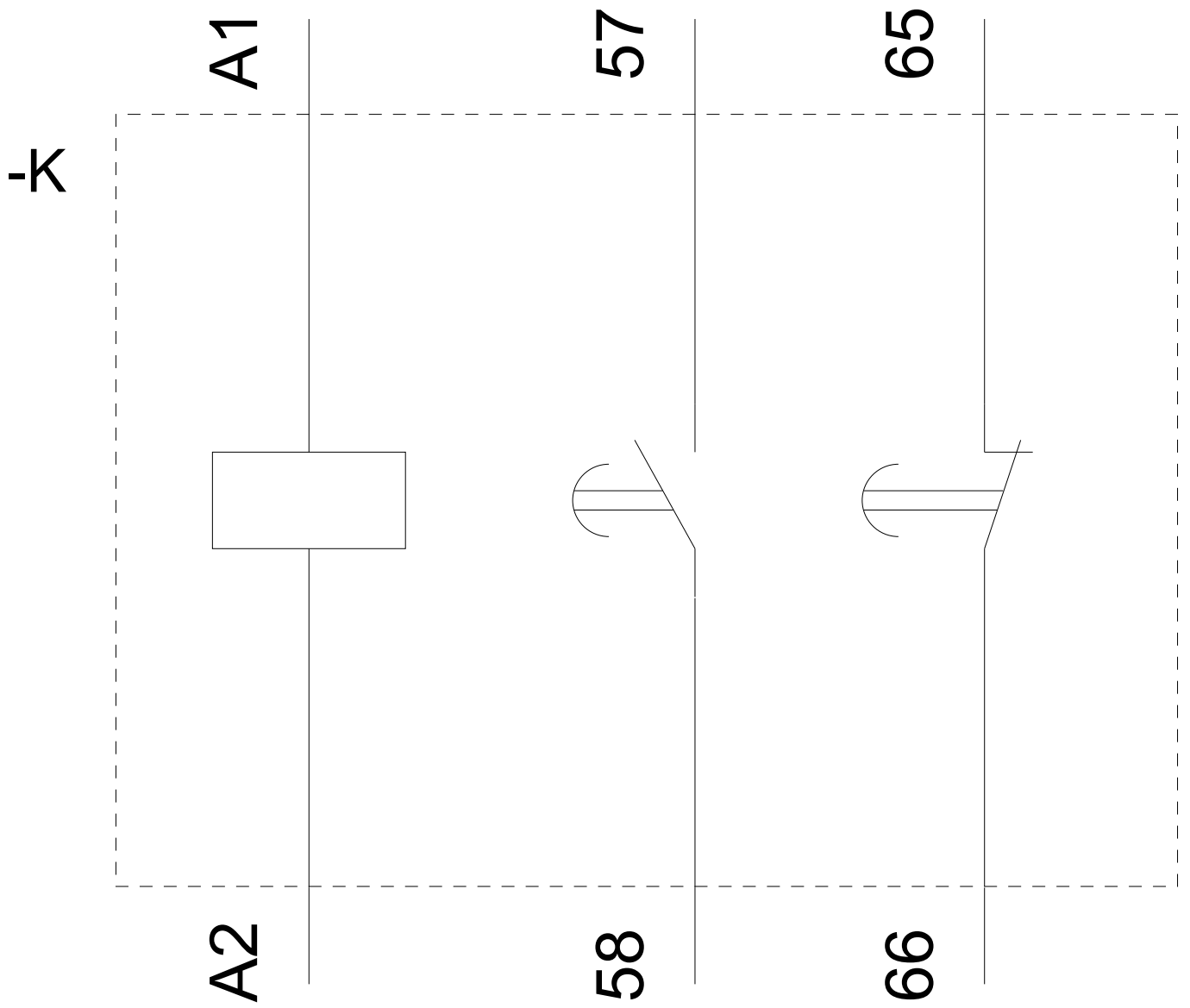
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1926-2EC21&lang=en

Characteristic: Derating

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1926-2EC21/manual>





last modified:

08/14/2020