

Solid-state time-delayed Auxiliary switch block can be snapped on at the front Time range 0.5...10 s 200...240 V AC/DC 1 NO + 1 NC, OFF delay Size S00 !!! Phased-out product !!! Successor is SIRIUS 3RA2 Preferred successor type is >>3RA2815-1FW10<<



Figure similar

Product brand name	SIRIUS
Product designation	auxiliary switch
Product type designation	3RT19
General technical data	
Size of contactor can be combined company-specific	S00
Product component	No
• semi-conductor output	
Product extension required remote control	No
Product extension optional remote control	No
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
Protection class IP	
• of the terminal	IP20

Shock resistance	
<ul style="list-style-type: none"> • acc. to IEC 60068-2-27 	11g / 15 ms
Mechanical service life (switching cycles)	
<ul style="list-style-type: none"> • typical 	10 000 000
Electrical endurance (switching cycles)	
<ul style="list-style-type: none"> • at AC-15 at 230 V typical 	100 000
Adjustable time	0.5 ... 10 s
Relative setting accuracy relating to full-scale value	15 %
Minimum ON period	200 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
Control supply voltage 1 at AC	
<ul style="list-style-type: none"> • at 50 Hz 	200 ... 240 V
<ul style="list-style-type: none"> • at 60 Hz 	200 ... 240 V
Control supply voltage frequency 1	50 ... 60 Hz
Operating range factor control supply voltage rated value at DC	
<ul style="list-style-type: none"> • initial value 	0.85
<ul style="list-style-type: none"> • Full-scale value 	1.1
Operating range factor control supply voltage rated value at AC at 50 Hz	
<ul style="list-style-type: none"> • initial value 	0.85
<ul style="list-style-type: none"> • Full-scale value 	1.1
Operating range factor control supply voltage rated value at AC at 60 Hz	
<ul style="list-style-type: none"> • initial value 	0.85
<ul style="list-style-type: none"> • Full-scale value 	1.1
Design of the surge suppressor	with varistor

Switching Function

Switching function	
<ul style="list-style-type: none"> • ON-delay 	No
<ul style="list-style-type: none"> • ON-delay/instantaneous contact 	No
<ul style="list-style-type: none"> • passing make contact 	No
<ul style="list-style-type: none"> • passing make contact/instantaneous contact 	No

• OFF delay	Yes
Switching function	
• flashing symmetrically starting with interval/instantaneous	No
• flashing symmetrically starting with interval	No
• flashing symmetrically starting with pulse/instantaneous	No
• flashing symmetrically starting with pulse	No
• flashing asymmetrically starting with interval	No
• flashing asymmetrically starting with pulse	No
Switching function	
• fixed clock cycle beginning with pulse	No
• fixed clock cycle beginning with interval	No
Switching function	
• variably clocked start with impulse	No
• variably clocked start with interval	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	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 activated control signal	No
• retrotriggerable with activated control signal/instantaneous contact	No
• retriggerable with deactivated control signal	No
Design of the control terminal non-floating	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

Number of NC contacts

- delayed switching 1
- instantaneous contact 0

Number of NO contacts

- delayed switching 1
- instantaneous contact 0

Number of CO contacts

- delayed switching 0
- instantaneous contact 0

Operating current of auxiliary contacts at AC-15

- maximum 3 A

Operating current of auxiliary contacts as NC contact at AC-15

- at 24 V 3 A
- at 250 V 3 A

Operating current of auxiliary contacts as NO contact at AC-15

- at 24 V 3 A
- at 250 V 3 A

Operating current of auxiliary contacts at DC-13

- at 24 V 1 A
- at 125 V 0.2 A
- at 250 V 0.1 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	
<ul style="list-style-type: none"> removable terminal for auxiliary and control circuit 	No
Type of electrical connection	
<ul style="list-style-type: none"> for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> solid 	1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²)
<ul style="list-style-type: none"> 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"> at AWG conductors solid 	2x (20 ... 14)
<ul style="list-style-type: none"> at AWG conductors stranded 	2x (20 ... 14)
Connectable conductor cross-section	
<ul style="list-style-type: none"> solid 	0.5 ... 4 m ²
<ul style="list-style-type: none"> 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	38 mm
Width	45 mm
Depth	75 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 	0 m 0 m 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	Functional Safety/Safety of Machinery	Declaration of Conformity
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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,...)

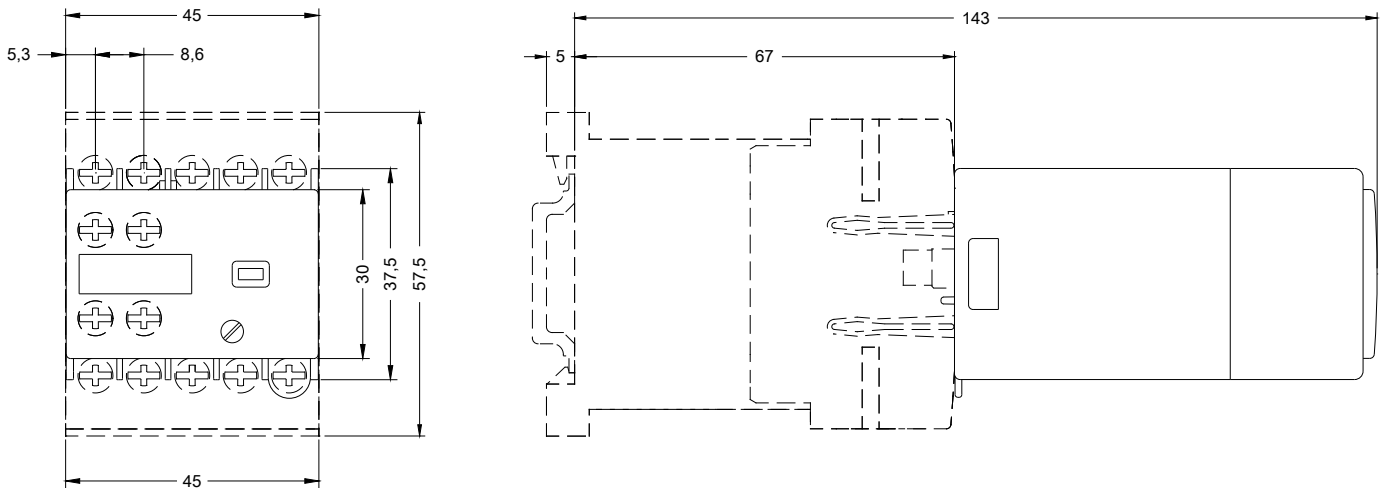
<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1916-2FL21>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1916-2FL21>



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