SIEMENS

Data sheet

3RA2832-2DG10



Electronic timing relay OFF delay With control signal and semiconductor output 24-90 V AC/DC Time range 0.05...100 s Can be snapped on at the front For contactors 3RT2, S2, S3 and 3RH2 S00 contactor relays Spring-type terminal

product designation function module product type designation 3R288 General technical data ************************************	product brand name	SIRIUS		
Genoral tock-inical data size of contactor can be combined company-specific S2, S3 product component semi-conductor output Yes product extension required remote control No product extension optional remote control No EC 60564 with degree of pollution 3 rated value 15 kV test voltage for isolation test 1.5 kV degree of pollution 3 rated value 4 kV test voltage resistance rated value 4 kV test voltage for isolation test 1.5 kV outge for surge voltage test 4 800 V protection class IP of the terminal IP20 shock resistance acc. to IEC 60068-2-27 15g/ 11 ms vibration resistance acc. to IEC 60068-2-6 10 59 Hz: 0.35 mm, 60 150 Hz: 2g mechanical service life (switching cycles) typical 100 000 000 electrical endurance (switching cycles) typical 10 000 000 electrical endurance (switching cycles) at AC-15 at 230 V 10 000 000 with contactor 3R.2 of frame size S3 3 000 000 with contactor 3R.2 of frame size S3 3 000 000 with contactor 3R.2 of frame size S3 3 000 000 with contactor 3R.2 of frame size S3 3 000 000	product designation	function module		
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minimum ON period 35 ms recovery time 50 ms reference code acc. to IEC 81346-2 K relative repeat accuracy 1 % Product Function 1 % product function star-delta circuit No Control circuit/ Control K type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC K	adjustable time	0.05 100 s		
recovery time 50 ms reference code acc. to IEC 81346-2 K relative repeat accuracy 1 % Product Function No control circuit/ Control K type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC K	relative setting accuracy relating to full-scale value	15 %		
reference code acc. to IEC 81346-2 K relative repeat accuracy 1 % Product Function No product function star-delta circuit No Control circuit/ Control K type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC AC/DC	minimum ON period	35 ms		
relative repeat accuracy 1 % Product Function product function star-delta circuit No Control circuit/ Control type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC	recovery time	50 ms		
Product Function product function star-delta circuit No Control circuit/ Control type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC AC/DC	reference code acc. to IEC 81346-2	К		
product function star-delta circuit No Control circuit/ Control KC/DC type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC AC/DC	relative repeat accuracy	1 %		
Control circuit/ Control type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC	Product Function			
type of voltage of the control supply voltage AC/DC control supply voltage 1 at AC C	product function star-delta circuit	No		
control supply voltage 1 at AC	Control circuit/ Control			
	type of voltage of the control supply voltage	AC/DC		
• at 50 Hz 24 90 V	control supply voltage 1 at AC			
	• at 50 Hz	24 90 V		



• at 60 Hz	24 90 V
	24 90 V 50 60 Hz
control supply voltage frequency 1	
control supply voltage 1 at DC	24 90 V
operating range factor control supply voltage rated value at DC	
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
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 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	
 constant clock cycle with pulse start 	No
constant clock cycle with interval start	No
switching function	
variably clocked with pulse start	No
variably clocked with interval start	No
switching function	Na
 star-delta circuit with delay time star-delta circuit 	No
	No
 switching function with control signal additive ON-delay 	No
passing break contact	No
 passing break contact/instantaneous 	No
OFF delay	Yes
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 	No
signal/instantaneous contact	

 retrotriggerable with switched-on control signal 	No		
 retrotriggerable with switched-on control 	No		
signal/instantaneous contact			
 retriggerable with deactivated control signal 	No		
design of the control terminal non-floating	Yes		
Auxiliary circuit			
number of NO contacts			
delayed switching	1		
operating frequency with 3RT2 contactor maximum	2 500 1/h		
influence of the surrounding temperature	±1 %		
power supply influence	±1 %		
Main circuit			
type of voltage	AC/DC		
Inputs/ Outputs			
product function			
non-volatile	No		
Electromagnetic compatibility	Environment & (industrial cres)		
EMC immunity acc. to IEC 61812-1	Environment A (industrial area)		
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	8 kV		
	O KV		
Safety related data			
touch protection against electrical shock	finger-safe		
type of insulation	Basic insulation		
category acc. to EN 954-1	none		
Connections/ Terminals			
Connections/ Terminals product function removable terminal for auxiliary and control circuit	Yes		
product function removable terminal for auxiliary and	Yes spring-loaded terminals		
product function removable terminal for auxiliary and control circuit			
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit			
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections	spring-loaded terminals		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid	spring-loaded terminals 0.5 4 mm², 2x (0.5 2.5 mm²)		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing	spring-loaded terminals 0.5 4 mm², 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing	spring-loaded terminals 0.5 4 mm ² , 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 2x (0.5 1.5 mm ²)		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded	spring-loaded terminals 0.5 4 mm², 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14) 2x (20 14)		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded	spring-loaded terminals 0.5 4 mm ² , 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (20 14)		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid	spring-loaded terminals 0.5 4 mm ² , 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (20 14) 2x (20 14) 0.5 4 mm ²		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded	spring-loaded terminals 0.5 4 mm ² , 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (20 14) 2x (20 14) 0.5 4 mm ² 0.5 2.5 mm ²		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded without core end processing • AWG number as coded connectable conductor	spring-loaded terminals 0.5 4 mm ² , 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (20 14) 2x (20 14) 0.5 4 mm ² 0.5 2.5 mm ² 0.25 1.5 mm ²		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded without core end processing • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor	spring-loaded terminals 0.5 4 mm², 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14) 2x (20 14) 0.5 4 mm² 0.5 2.5 mm² 0.25 1.5 mm² 20 14		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded without core end processing • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section stranded	spring-loaded terminals 0.5 4 mm ² , 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (20 14) 2x (20 14) 0.5 4 mm ² 0.5 2.5 mm ² 0.25 1.5 mm ² 20 14		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded without core end processing • connectable conductor cross-section finely stranded without core end processing • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section stranded Installation/ mounting/ dimensions mounting position	spring-loaded terminals 0.5 4 mm², 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14) 2x (20 14) 0.5 4 mm² 0.5 2.5 mm² 0.25 1.5 mm² 20 14 20 14 any (like contactor)		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded without core end processing • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section stranded Installation/mounting/dimensions mounting position fastening method	spring-loaded terminals 0.5 4 mm ² , 2x (0.5 2.5 mm ²) 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²) 2x (0.5 1.5 mm ²) 2x (20 14) 2x (20 14) 0.5 4 mm ² 0.5 2.5 mm ² 0.25 1.5 mm ² 20 14		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded without core end processing • connectable conductor cross-section finely stranded without core end processing • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section stranded Installation/ mounting/ dimensions mounting position	spring-loaded terminals 0.5 4 mm², 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14) 2x (20 14) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 1.5 mm² 20 14 20 14 20 14 column 14 column 14 column 14 column 14		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded without core end processing • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section stranded Installation/ mounting/ dimensions mounting position fastening method height	spring-loaded terminals 0.5 4 mm², 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14) 2x (20 14) 0.5 4 mm² 0.5 2.5 mm² 0.5 4 mm² 0.5 4 mm² 0.5 2.5 mm² 0.25 1.5 mm² 20 14 20 14 any (like contactor) clip-on 38 mm		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded without core end processing • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section stranded • Installation/ mounting/ dimensions • mounting position • fastening method • height • width • depth	spring-loaded terminals 0.5 4 mm², 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14) 2x (20 14) 0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 1.5 mm² 20 14 20 14 20 14 21 14 22 14 23 14 24 14 25 14 26 14 27 14 28 mm 45 mm		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded without core end processing • connectable conductor cross-section finely stranded without core end processing • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section stranded Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	spring-loaded terminals 0.5 4 mm², 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14) 2x (20 14) 0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 4 mm² 0.5 2.5 mm² 0.25 1.5 mm² 20 14 20 14 20 14 21 14 22 14 23 14 24 14 25 14 26 14 27 14 28 14		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded without core end processing • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section stranded • Installation/ mounting/ dimensions • mounting position • fastening method • height • width • depth	spring-loaded terminals 0.5 4 mm², 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14) 2x (20 14) 0.5 4 mm² 0.5 2.5 mm² 0.5 2.5 mm² 0.5 4 mm² 0.5 2.5 mm² 0.5 1.5 mm² 20 14 20 14 20 14 21 14 22 14 23 14 24 14 25 14 26 14 27 14 28 mm 45 mm		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded without core end processing • connectable conductor cross-section finely stranded without core end processing • connectable conductor cross-section finely stranded without core end processing • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section stranded Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting	spring-loaded terminals 0.5 4 mm², 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14) 2x (20 14) 0.5 4 mm² 0.5 2.5 mm² 0.25 1.5 mm² 20 14 20 14 20 14 any (like contactor) clip-on 38 mm 45 mm 74 mm 0 mm		
product function removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid • at AWG cables stranded • connectable conductor cross-section solid • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded with core end processing • connectable conductor cross-section finely stranded without core end processing • connectable conductor cross-section finely stranded without core end processing • connectable conductor cross-section finely stranded without core end processing • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section solid • AWG number as coded connectable conductor cross section stranded Installation/ mounting/ dimensions mounting position fastening method heigh	spring-loaded terminals 0.5 4 mm², 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 2x (0.5 1.5 mm²) 2x (20 14) 2x (20 14) 0.5 4 mm² 0.25 1.5 mm² 0.25 1.5 mm² 20 14 20 14 21 14 22 14 23 14 24 14 25 14 26 14 27 14		



— downwards		0 mm		
— at the side		0 mm		
• for grounded parts		• min		
— 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 height above sea level	maximum	2 000 m		
ambient temperature during operation		-25 +60 °C		
 ambient temperature during storage 		-40 +85 °C		
 ambient temperature during transport 		-40 +85 °C		
relative humidity during operation		0 95 %		
Certificates/ approvals				
General Product Approval	Test Certifica	ates Marine / Shipping		
۹. EHC	<u>Type Test</u> <u>Certificates/T</u> <u>Report</u>	t Test ABS	BUREAU VERITAS	Lloyds Register us
Marine / Shipping			other	
Marine / Shipping	æ	\sim	other Confirmation	

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RA2832-2DG10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2832-2DG10

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

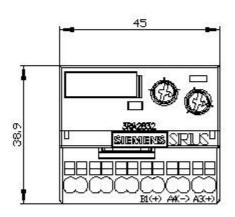
https://support.industry.siemens.com/cs/ww/en/ps/3RA2832-2DG10

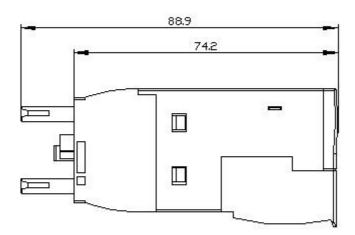
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

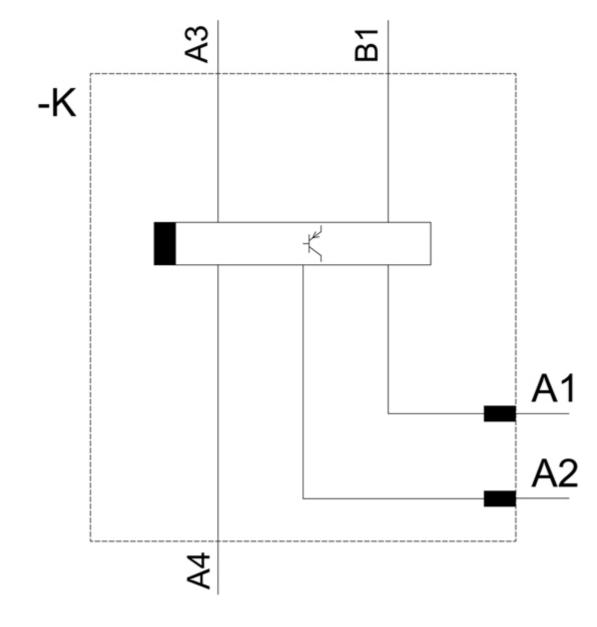
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2832-2DG10&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RA2832-2DG10/manual







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10/16/2020 🖸