SIEMENS

Product data sheet 3TK2828-1BB40



SIRIUS SAFETY RELAY WITH RELAY RELEASE CIRCUITS (RC),

DC 24V, 45.0MM, SCREW TERMINAL,

RC INSTANT.: 2NO,

RC DELAYED: 2NO 0.5...30S, MC: 1NC,

AUTOSTART, BASIC DEVICE, MAX. ACHIEVABLE SIL: 3/2, PL: E/D

General technical details:		
product brand name		SIRIUS
Product designation		safety relays
Design of the product		for EMERGENCY-STOP units
protection type IP / of the enclosure		IP20
Protection class IP / of the terminal		IP20
Protection against electrical shock		finger-safe
Insulation voltage / rated value	V	300
Ambient temperature		
during storage	°C	-40 +80
during operating	°C	-25 +60
Air pressure		
according to SN 31205	kPa	90 106
Relative humidity		
during operating phase	%	10 95
Installation altitude / at a height over sea level / maximum	m	2,000
Resistance against vibration / according to IEC 60068-2-6		5 500 Hz: 0,075 mm
Resistance against shock		8g / 10 ms
Impulse voltage resistance / rated value	V	4,000
EMC emitted interference		EN 60947-5-1

Installation environment relating to EMC		This product is suitable for Class A environments only.
The same of the sa		It can cause undesired radio-frequency interference in residential environments. If this is the case, the user
		must take appropriate measures.
Reference code	_	
 according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 		КТ
according to DIN EN 61346-2		F
Number of sensor inputs		
1-channel or 2-channel		1
Design of the cascading		none
Type of the safety-related wiring / of the inputs		single-channel and two-channel
Product feature / transverse contact-secure		Yes
Safety Integrity Level (SIL)		
according to IEC 61508		SIL3
• for delayed release circuit / according to IEC 61508		SIL2
SIL claim limit (for a subsystem) / according to EN 62061		3
Performance Level (PL)		
according to EN ISO 13849-1		е
• for delayed release circuit / according to EN ISO 13849-1		d
Category / according to EN 954-1		4
Category / according to EN ISO 13849-1		4
Hardware fault tolerance / according to IEC 61508		1
Safety device type / according to IEC 61508-2		Type A
PFHD / with high demand rate / according to EN 62061	1/h	0.27E-8
Average probability of failure on demand (PFDavg) / with low demand rate / according to IEC 61508	1/y	0.24E-5
T1 value / for proof test interval or service life / according to IEC 61508	а	20
Number of outputs / as contact-affected switching element		
• as NC contact / for reporting function / instantaneous switching		1
as NO contact / safety-related / instantaneous switching		2
as NO contact / safety-related / delayed switching		2
Number of outputs / as contact-less semiconductor switching element		
safety-related		
delayed switching		0
• non-delayed		0
for reporting function		
delayed switching		0
• non-delayed		0
Stop category / according to DIN EN 60204-1		0 + 1

Design of the input - cascading-input/functional switching - feedback input Design of the electrical connection / jumper socket Cereating cycles / maximum Switching capacity current - of NO contacts of relay outputs - at 24 V - at 115 V - at 230 V - at 230 V - at 115 V - at 230 V - of NC contacts of relay outputs - at 115 V - at 230 V - of NC contacts of relay outputs - at 115 V - at 230 V - of NC contacts of relay outputs - at 115 V - at 230 V - of NC contacts of relay outputs - at 115 V - at 230 V - of NC contacts of relay outputs - at 115 V - at 230 V - of NC contacts of relay outputs - at 115 V - at 230 V - at 115 V - at 230 V - at 30 C - at 115 V - at 230 V - at 30 C - at 115 V - at 230 V - at 115 V - at 230 V - at 230 V - at 115 V - at 230 V - at 250 V - at 30 V - at 115 V - at 250 V - at 30 V - at	General technical details:		
Feedback input	Design of the input		
Start input Yes	cascading-input/functional switching		No
Design of the electrical connection / jumper socket Yes Operating cycles / maximum 1/h 1,000 Switching capacity current - of NO contacts of relay outputs - at 24 V A 5 - at 24 V A 0.2 - at 115 V A 0.2 - at 115 V A 0.1 - at 230 V A 5 - at 115 V A 5 - at 230 V A 5 - of NC contacts of relay outputs A 5 - at 230 V A 5 - at 1230 V A 5 - at 230 V A 1 - at 115 V A 0.2 A 0.1 - at 115 V A 5 A 5 - at 115 V A 5 A 5 - at 230 V A 5 A 5 <td>• feedback input</td> <td></td> <td>Yes</td>	• feedback input		Yes
Operating cycles / maximum 1/h 1,000 Switching capacity current 4 1,000 Switching capacity current 4 1,000 • at DC-13 4 5 • at 115 V A 0,2 • at 230 V A 5 • at 115 V A 5 • at 230 V A 5 • of NC contacts of relay outputs A 5 • at DC-13 A 5 • at 115 V A 5 • at 115 V A 0,2 • at 115 V A 0,2 • at 4C-15 A 0,1 • at 115 V A 0,2 • at 115 V A 0,2 • at 330 V A 5 • at 115 V B 5 • at 115 V B 5	start input		Yes
Switching capacity current of NO contacts of relay outputs -at DC-13 -at 24 V -at 1115 V -at 230 V -at 230 V -at 115 V -at 230 V -at 115 V -at 230 V -at 115 V -at 230 V -at 230 V -at 230 V -at 115 V -at 230 V -at 230 V -at 115 V -at 230 V -at 15 V -at 230 V -at 15 V -at 115 V -at 230 V -at 15 V -at 15 V -at 15 V -at 25 V -at 15 V -at 15 V -at 25 V -at 25 V -at 15 V -at 15 V -at 25 V -at 15 V -at 25 V -at	Design of the electrical connection / jumper socket		Yes
- of NO contacts of relay outputs - at DC-13 - at 24 V - at 115 V - at 230 V - at 230 V - of NC contacts of relay outputs - at 115 V - at 230 V - of NC contacts of relay outputs - at 115 V - at 230 V - of NC contacts of relay outputs - at 115 V - at 230 V - of NC contacts of relay outputs - at 115 V - at 115 V - at 230 V - at 115 V - at 230 V - at 115 V - at 230 V - at 230 V - at A 5 - at 230 V - at AC-15 - at 115 V - at 230 V - at A 5 - at 230 V - at A 5 - at 230 V - at A 5 - at 230 V - at 250	Operating cycles / maximum	1/h	1,000
- at DC-13 - at 24 V - at 115 V - at 230 V - at AC-15 - at 116 V - at 230 V - of NC contacts of relay outputs - at 24 V - at 115 V - at 230 V - of NC contacts of relay outputs - at DC-13 - at 24 V - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V - at 230 V - at AC-15 - at 115 V - at 230 V - at 35 - at 115 V - at 230 V - at 35 - at 115 V - at 230 V - at 35 - at 115 V - at 230 V - at 35 - at 115 V - at 230 V - at 30 V - at 35 - at 115 V - at 230 V - at 35 - at 115 V - at 230 V - at 30 V - at	Switching capacity current		
• at 24 V A 5 • at 115 V A 0.2 • at 230 V A 0.1 • at AC-15 A 5 • at 115 V A 5 • of NC contacts of relay outputs A 5 • at DC-13 A 5 • at 115 V A 5 • at 230 V A 0.1 • at 230 V A 5 • at 115 V A 5 • at 230 V A 5 Thermal current / of the contact-affected switching element / maximum A 5 Mechanical operating cycles as operating time / typical 100,000 100,000 Mechanical operating cycles as operating time / typical 100,000,000 100,000,000 Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required 30 30 Resistance to direct current / of the cable / maximum m 1,000 Make time / with automatic start • for DC / maximum ms 80 Backslide delay time / at mains power cut ms	of NO contacts of relay outputs		
• at 115 V A 0.2 • at 230 V A 0.1 • at AC-15 A 5 • at 115 V A 5 • at 230 V A 5 • at DC-13 A 5 • at 115 V A 0.2 • at 230 V A 0.1 • at AC-15 A 5 • at 115 V A 5 • at 230 V A 5 Thermal current / of the contact-affected switching element / maximum A 5 Electrical operating cycles as operating time / typical 100,000 100,000 Mechanical operating cycles as operating time / typical 100,000 100,000 Mechanical operating cycles as operating time / typical 100,000 100,000 Mechanical operating cycles as operating time / typical 100,000 100,000 Mechanical operating cycles as operating time / typical 100,000 100,000 Mechanical operating cycles as operating time / typical 100,000 100,000 Mechanical operating cycles as operating time / typical 100,000 <td>• at DC-13</td> <td></td> <td></td>	• at DC-13		
• at 230 V A 0.1 • at AC-15 - at 115 V A 5 • at 230 V A 5 • of NC contacts of relay outputs - at 20 C-13 - at 24 V A 5 • at 115 V A 0.2 - at 230 V A 0.1 • at AC-15 - at 115 V A 5 - at 230 V A 5 • at 230 V A 5 - at 230 V A 5 Thermal current / of the contact-affected switching element / maximum A 5 - at 230 V A 5 Thermal current / of the contact-affected switching element / maximum A 5 - at 230 V A 5 Recision operating cycles as operating time / typical 100,000 100,000 100,000 100,000 100,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000,000 100,000	• at 24 V	Α	5
• at AC-15 • at 115 V A 5 • at 230 V A 5 • of NC contacts of relay outputs A 5 • at DC-13 A 5 • at 24 V A 0.2 • at 230 V A 0.1 • at AC-15 A 5 • at 115 V A 5 • at 230 V A 5 Thermal current / of the contact-affected switching element / maximum A 5 Electrical operating cycles as operating time / typical 100,000 Mechanical operating cycles as operating time / typical 10,000,000 Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required gL/gG: 6 A, or quick: 10 A Resistance to direct current / of the cable / maximum Ω 30 Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum m 1,000 Make time / with automatic start • for DC / maximum ms 80 Backslide delay time / after opening of the safety circuits s 0.5 30	• at 115 V	Α	0.2
• at 115 V A 5 • at 230 V A 5 • of NC contacts of relay outputs A 5 • at DC-13 A 5 • at 24 V A 0.2 • at 115 V A 0.1 • at 230 V A 5 • at 115 V A 5 • at 230 V A 5 Thermal current / of the contact-affected switching element / maximum A 5 Electrical operating cycles as operating time / typical 100,000 Mechanical operating cycles as operating time / typical 10,000,000 Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required gL/gG: 6 A, or quick: 10 A Resistance to direct current / of the cable / maximum Ω 30 Cable length / between sensor and electronic evaluation device / with cu 1.5 mm² and 150 nF/km / maximum m 1,000 Make time / with automatic start • • • • for DC / maximum ms 80 Backslide delay time / at mains power cut • • • maximum ms 100 • after opening of the safety	• at 230 V	Α	0.1
• at 230 V • of NC contacts of relay outputs • at DC-13 • at 24 V • at 115 V • at 230 V • at AC-15 • at 115 V • at 115 V • at 230 V A 5 Thermal current / of the contact-affected switching element / maximum Electrical operating cycles as operating time / typical Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required Resistance to direct current / of the cable / maximum Abake time / with autometic start • for DC / maximum Backslide delay time / at mains power cut • maximum A 5 5 6 7 8 8 8 8 8 8 8 8 8 8 8 8	• at AC-15		
• of NC contacts of relay outputs • at DC-13 • at 24 V • at 115 V • at 230 V • at AC-15 • at 115 V • at 230 V A 5 Thermal current / of the contact-affected switching element / maximum Electrical operating cycles as operating time / typical Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required Resistance to direct current / of the cable / maximum Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum Make time / with automatic start • for DC / maximum Backsilde delay time / at mains power cut • maximum Adjustable backsilde delay time • after opening of the safety circuits A 5 5 C 5 A 5 A 5 A 5 A 5 A 5	• at 115 V	Α	5
• at DC-13 • at 24 V • at 115 V A 0.2 • at 230 V A 0.1 • at AC-15 • at 230 V A 5 • at 230 V A 5 Thermal current / of the contact-affected switching element / maximum A 5 Electrical operating cycles as operating time / typical 100,000 Mechanical operating cycles as operating time / typical 10,000,000 Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required 2 30 Resistance to direct current / of the cable / maximum Ω 30 Cable length / between sensor and electronic evaluation device / with cut 1.5 mm² and 150 nF/km / maximum m 1,000 Make time / with automatic start • for DC / maximum ms 80 Backslide delay time / at mains power cut • maximum ms 80 Adjustable backslide delay time • after opening of the safety circuits s 0.5 30	• at 230 V	Α	5
- at 24 V - at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum A 5 Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching element / maximum Thermal current / of the contact-affected switching eleme	of NC contacts of relay outputs		
- at 115 V - at 230 V - at AC-15 - at 115 V - at 230 V Thermal current / of the contact-affected switching element / maximum Electrical operating cycles as operating time / typical Mechanical operating cycles as operating time / typical Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required Resistance to direct current / of the cable / maximum Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum Make time / with automatic start - for DC / maximum Backslide delay time / at mains power cut - maximum Adjustable backslide delay time - after opening of the safety circuits A 5 5 A 5 A 5 A 5 A 5 A 5 A 5	• at DC-13		
- at 230 V - at AC-15 - at 115 V - at 230 V Thermal current / of the contact-affected switching element / maximum Electrical operating cycles as operating time / typical Mechanical operating cycles as operating time / typical Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required Resistance to direct current / of the cable / maximum Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum Make time / with automatic start - for DC / maximum Backsilde delay time / at mains power cut - maximum Adjustable backslide delay time - after opening of the safety circuits A 5 A 5 A 5 A 5 A 5 A 5 A 5 A	• at 24 V	Α	5
• at AC-15 A 5 • at 230 V A 5 Thermal current / of the contact-affected switching element / maximum A 5 Electrical operating cycles as operating time / typical 100,000 Mechanical operating cycles as operating time / typical 10,000,000 Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required gL/gG: 6 A, or quick: 10 A Resistance to direct current / of the cable / maximum Ω 30 Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum m 1,000 Make time / with automatic start • for DC / maximum ms 80 Backslide delay time / at mains power cut • maximum ms 100 Adjustable backslide delay time • after opening of the safety circuits s 0.5 30	• at 115 V	Α	0.2
• at 115 V A 5 • at 230 V A 5 Thermal current / of the contact-affected switching element / maximum A 5 Electrical operating cycles as operating time / typical 100,000 Mechanical operating cycles as operating time / typical 10,000,000 Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required gL/gG: 6 A, or quick: 10 A Resistance to direct current / of the cable / maximum Ω 30 Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum m 1,000 Make time / with automatic start • for DC / maximum ms 80 Backslide delay time / at mains power cut • maximum ms 100 Adjustable backslide delay time • after opening of the safety circuits s 0.5 30	• at 230 V	Α	0.1
• at 230 V A 5 Thermal current / of the contact-affected switching element / maximum A 5 Electrical operating cycles as operating time / typical 100,000 Mechanical operating cycles as operating time / typical 10,000,000 Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required gL/gG: 6 A, or quick: 10 A Resistance to direct current / of the cable / maximum Ω 30 Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum m 1,000 Make time / with automatic start • for DC / maximum ms 80 Backslide delay time / at mains power cut • maximum ms 100 Adjustable backslide delay time s 0.5 30	• at AC-15		
Thermal current / of the contact-affected switching element / maximum Electrical operating cycles as operating time / typical Mechanical operating cycles as operating time / typical Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required Resistance to direct current / of the cable / maximum Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum Make time / with automatic start · for DC / maximum ms 80 Adjustable backslide delay time / at mains power cut · maximum Adjustable backslide delay time · after opening of the safety circuits A 5 100,000 10,000,000 gL/gG: 6 A, or quick: 10 A 10,000 m 1,000 Me 1,000,000 Me 2,000 Me 1,000,000 Me 1,000 Me 1,000 Me 1,000 Me 1,000 Me	• at 115 V	Α	5
maximum Electrical operating cycles as operating time / typical 100,000 Mechanical operating cycles as operating time / typical 10,000,000 Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required gL/gG: 6 A, or quick: 10 A Resistance to direct current / of the cable / maximum Ω 30 Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum m 1,000 Make time / with automatic start	• at 230 V	Α	5
Mechanical operating cycles as operating time / typical 10,000,000 Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required gL/gG: 6 A, or quick: 10 A Resistance to direct current / of the cable / maximum Ω 30 Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum m 1,000 Make time / with automatic start • for DC / maximum ms 80 Backslide delay time / at mains power cut • maximum ms 100 Adjustable backslide delay time • after opening of the safety circuits s 0.5 30		Α	5
Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required Resistance to direct current / of the cable / maximum Ω 30 Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum Make time / with automatic start • for DC / maximum ms 80 Backslide delay time / at mains power cut • maximum Adjustable backslide delay time • after opening of the safety circuits s gL/gG: 6 A, or quick: 10 A m 1,000 m 1,000 100 100 100 100	Electrical operating cycles as operating time / typical		100,000
required Resistance to direct current / of the cable / maximum Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum Make time / with automatic start • for DC / maximum ms 80 Backslide delay time / at mains power cut • maximum Majustable backslide delay time • after opening of the safety circuits s 0.5 30	Mechanical operating cycles as operating time / typical		10,000,000
Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum Make time / with automatic start • for DC / maximum ms 80 Backslide delay time / at mains power cut • maximum ms 100 Adjustable backslide delay time • after opening of the safety circuits s 0.5 30			gL/gG: 6 A, or quick: 10 A
with Cu 1.5 mm² and 150 nF/km / maximum Make time / with automatic start • for DC / maximum ms 80 Backslide delay time / at mains power cut • maximum ms 100 Adjustable backslide delay time • after opening of the safety circuits s 0.5 30	Resistance to direct current / of the cable / maximum	Ω	30
• for DC / maximum Backslide delay time / at mains power cut • maximum Ms 100 Adjustable backslide delay time • after opening of the safety circuits s 0.5 30		m	1,000
Backslide delay time / at mains power cut • maximum ms 100 Adjustable backslide delay time • after opening of the safety circuits s 0.5 30	Make time / with automatic start		
• maximum ms 100 Adjustable backslide delay time • after opening of the safety circuits s 0.5 30	• for DC / maximum	ms	80
Adjustable backslide delay time • after opening of the safety circuits s 0.5 30	Backslide delay time / at mains power cut		
• after opening of the safety circuits s 0.5 30	• maximum	ms	100
	Adjustable backslide delay time		
Recovery time / after mains power cut / typical s 1	after opening of the safety circuits	s	0.5 30
	Recovery time / after mains power cut / typical	s	1

Pulse duration		
of the sensor input / minimum	ms	25
of the ON pushbutton input / minimum	s	0.025

Control circuit:		
Voltage type / of control feed voltage		DC
Control supply voltage / 1 / for DC / rated value	V	24
operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz		
• for AC		0.85 1.1
• at 60 Hz		
• for AC		0.85 1.1
• for DC		0.85 1.1

Installation/mounting/dimensions:		
mounting position		any
Mounting type		screw and snap-on mounting
Width	mm	44.8
Height	mm	138.5
Depth	mm	120

Connections:	
Design of the electrical connection	screw-type terminals
Type of the connectable conductor cross-section	
• solid	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
finely stranded	
with wire end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
Type of the connectable conductor cross-sections / for AWG conductors	
• solid	2x (20 14)
• stranded	2x (20 14)

Product Function:		
Product function		
light barrier monitoring	No	
standstill monitoring	No	
protective door monitoring	Yes	es
automatic start	Yes	es
 magnetic switch monitoring Normally closed contact-Normally open contact 	No	
 rotation speed monitoring 	No	0

laser scanner monitoring	No
monitored start-up	No
light grid monitoring	No
 magnetic switch monitoring Normally closed contact-Normally closed contact 	No
emergency stop function	No
step mat monitoring	Yes
Suitability for interaction / pressing control	No
Acceptability for application	
monitoring of floating sensors	Yes
 monitoring of non-floating sensors 	No
safety cut-out switch	Yes
position switch monitoring	Yes
EMERGENCY-OFF circuit monitoring	No
valve monitoring	No
tactile sensor monitoring	No
 magnetically operated switches monitoring 	No
safety-related circuits	Yes

Certificates/approvals:

Verification of suitability

BG, SUVA, UL, CSA, EN 60204-1, EN ISO 12100, EN 954-1, IEC 61508

• TÜV (German technical inspectorate) certificate

• UL-registration

• BG, SUVA, UL, CSA, EN 60204-1, EN ISO 12100, EN 954-1, IEC 61508

Yes

• BG BIA certificate

Yes

General Product Approval

EMC

Functional Safety / Safety of Machinery













Declaration of Conformity

Test Certificates

other

CE

Special Test Certificate Confirmation

Environmental Confirmations

Further information:

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

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

Industry Mall (Online ordering system)

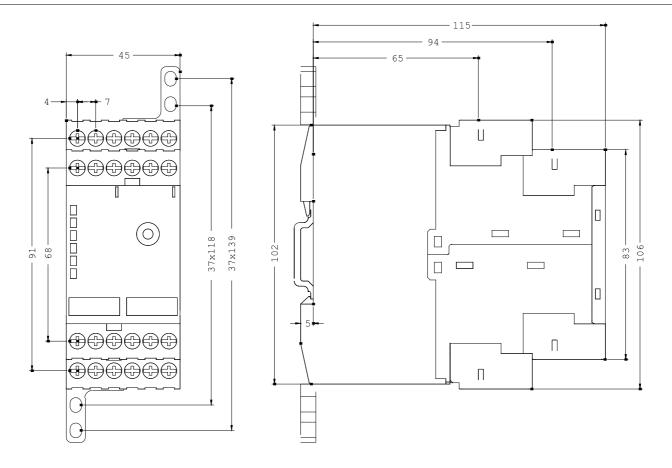
 $\underline{\text{http://www.siemens.com/industrial-controls/mall}}$

Cax online generator:

http://www.siemens.com/cax

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3TK2828-1BB40



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