# **SIEMENS**

Product data sheet 3TK2856-2BB40

SIRIUS SAFETY RELAY WITH AUXILIARY CONTACTOR RELEASE CIRCUIT (RC),

DC 24V, 90.0MM, SPRING-LOADED TERMINAL,

RC INSTANT.: 6S, 1HL, RC DELAYED: 0,

MC: 1NC, EXPANSION UNIT,

MAX. ACHIEVABLE PL: AS GG MAX. ACHIEVABLE SIL: AS

GG

General technical details:		
product brand name		SIRIUS
product designation		safety relays
Design of the product		extension unit
protection class IP / of the housing		IP20
Protection class IP / of the terminal		IP20
Protection against electrical shock		finger-safe
Insulation voltage / rated value	V	690
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 and 15g / 5 ms
Impulse voltage resistance / rated value	V	6,000
EMC emitted interference		IEC 60947-5-1, IEC 60000-4-3, IEC 60000-4-5, IEC 60000-4-6
Installation environment relating to EMC		This product is suitable for Class A environments only. It can cause undesired radio-frequency interference in residential environments. If this is the case, the user must take appropriate measures.
Item designation		
<ul> <li>according to DIN 40719 extendable after IEC 204-2 / according to IEC 750</li> </ul>		КТ
according to DIN EN 61346-2		F
Contact reliability		one incorrect switching operation of 100 million switching operations (17 V, 5 mA)

Design of the cascading		cascading and in-service switching
Product feature / transverse contact-secure		No
Safety Integrity Level (SIL)		
according to IEC 61508		SIL3
SIL claim limit (for a subsystem) / according to EN 62061		3
Performance Level (PL)		
according to ISO 13849-1		е
Category / according to EN 954-1		corresponds to basic unit
Category / according to ISO 13849-1		4
Hardware fault tolerance / according to IEC 61508		1
Safety device type / according to IEC 61508-2		Туре В
Probability of dangerous failure per hour (PFHD) / with high demand rate / according to EN $62061$	1/h	0.11E-7
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		6
• as NO contact / safety-related / delayed switching		0
Number of outputs / as contact-less semiconductor switching element		
• safety-related		
delayed switching		0
• non-delayed		1
for reporting function		
delayed switching		0
• non-delayed		0
Stop category / according to DIN EN 60204-1		0

General technical details:		
Design of the input		
<ul> <li>cascading-input/functional switching</li> </ul>		Yes
feedback input		Yes
start input		Yes
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 DC-13		
• at 24 V	Α	10
• at 115 V	Α	1

- at 24 V - at 115 V - at 220 V - at 1230 V - at 1230 V - at 124 V - at 115 V - at 230 V - at NC contacts of relay outputs - at 24 V - at 115 V - at 230 V - at NC contacts of relay outputs - at 115 V - at 230 V - at 115 V - at 230 V - at AC-15 - at 24 V - at 115 V - at 230 V - at AC-15 - at 24 V - at 115 V - at 230 V - at Ac-15 - at 24 V - at 115 V - at 230 V - at Ac-15 - at 24 V - at 115 V - at 230 V - at Ac-15 - at 25 V - at 115 V - at 230 V - at Ac-15 - at 26 V - at 115 V - at 230 V - at Ac-15 - at 27 V - at 280 V - at 115 V - at 290 V - at 115 V - at 290 V - at 115 V - at 290 V - at 290 V - at 115 V - at 290 V - at 115 V - at 290 V - at 290 V - at 290 V - at 240 V - at 115 V - at 290 V - at 115 V - at 290 V - at 290 V - at 240 V - at 290 V - at			
- at 24 V     - at 115 V     - at 230 V     - at RC contacts of relay outputs     - at DC-13     - at 24 V     - at 115 V     - at 230 V     - at 115 V     - at 230 V     - at 230 V     - at 24 V     - at 115 V     - at 230 V     - at 24 V     - at 115 V     - at 230 V     - at 250 V     - Mechanical operating cycles as operating time / typical     - at 230 V	• at 230 V	Α	0.3
- at 130 V - of NC contacts of relay outputs - at DC-13 - at 24 V - at 115 V - at 230 V - at 115 V - at 250 V	• at AC-15		
- at 230 V - of NC contacts of relay outputs - at 24 V - at 1115 V - at 230 V - at 230 V - at 24 V - at 115 V - at 230 V - at 24 V - at 115 V - at 230 V - at 24 V - at 115 V - at 230 V - at 25 V -	• at 24 V	Α	4
- of NC contacts of relay outputs - at DC-13 - at 24 V - at 115 V - at 230 V - at 24 V - at 115 V - at 230 V - at 230 V - at 1250 V - at 230 V - at 230 V - A 6 - A 6 - A 6 - A 6 - A 6 - A 6 - A 7 - A 7 - A 7 - A 8 - A 8 - A 9 - A 8 - A 9	• at 115 V	Α	6
- at DC-13 - at 24 V - at 115 V - at 230 V - at AC-15 - at 24 V - at 115 V - at 230 V - at 115 V - at 230 V - at 115 V - at 115 V - at 230 V - A 6 - at 230 V - A 6 - A 6 - A 6 - A 6 - A 6 - A 6 - A 6 - A 6 - A 7 - A 7 - A 7 - A 7 - A 8 - A 9 - A 8 - A 8 - A 9 - A 8 - A 8 - A 9 - A 8 - A 9 - A 8 - A 9 - A 8 - A 9 - A 9 - A 8 - A 9 - A 9 - A 8 - A 9 - A	• at 230 V	Α	6
- at 24 V - at 115 V - at 230 V - at AC-15 - at 24 V - at 115 V - at 230 V - at AC-16 - at 24 V - at 115 V - at 230 V  Mechanical operating cycles as operating time / typical  Max, permissible voltage for safe isolation / between electronic evaluation device and enabling circuit / according to EN 60947-1  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 500  Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum  Make time / with automatic start / after mains power cut - typical - maximum  Backslide delay time / after opening of the safety circuits / typical - maximum  Backslide delay time / after opening of the safety circuits / typical - maximum  Backslide delay time / after opening of the safety circuits / typical - maximum - so  So  Recovery time / after mains power cut - typical - maximum - so  So  Control circuit:  Type of voltage / of the controlled supply voltage - Control supply voltage / 1 / for DC / rated value - operating range factor control supply voltage rated value / of the magnet coil	of NC contacts of relay outputs		
- at 115 V - at 230 V - at AC-15 - at 24 V - at 115 V - at 230 V  A 4 - at 115 V - at 230 V  A 6  Mechanical operating cycles as operating time / typical  Max. permissible voltage for safe isolation / between electronic evaluation device and enabling circuit / according to EN 60947-1  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 500  Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum  Make time / with automatic start / after mains power cut - typical - maximum  Backslide delay time / after opening of the safety circuits / typical - maximum  Backslide delay time / after opening of the safety circuits / typical - maximum - simum simum - simum simum - simum simum sover cut - typical - maximum simum simum - simum simum simum - simum simum - simum simum simum - simum simum simum simum - simum simum - simum simum - simum simum simum simum - simum simum simum - simum simum simum simum - simum	• at DC-13		
• at 230 V       • at AC-15         • at 24 V       A       4         • at 115 V       A       6         • at 230 V       A       6         • at 230 V       A       6         Mechanical operating cycles as operating time / typical       30,000,000         Max, permissible voltage for safe isolation / between electronic evaluation device and enabling circuit / according to EN 60947-1       V       400         Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required       gL/gC: 10 A         Resistance to direct current / of the cable / maximum       Ω       500         Cable length / between sensor and electronic evaluation device / with cut 1.5 mm² and 150 n²/km / maximum       m       2,000         Make time / with automatic start / after mains power cut       .       .       .         • typical       ms       6,000       .         • maximum       ms       50       .         Backslide delay time / after opening of the safety circuits / typical       ms       50         • maximum       ms       120       .         Recovery time / after opening of the safety circuits / typical       s       7         Pulse duration       of the cascading-entrance / minimum       s       0.045         <	• at 24 V	Α	10
- at AC-15 - at 24 V - at 115 V - at 230 V  Mechanical operating cycles as operating time / typical  Max, permissible voltage for safe isolation / between electronic evaluation device and enabling circuit / according to EN 60947-1  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 / after mains power cut - typical - maximum  Backslide delay time / after opening of the safety circuits / typical - maximum  Rescovery time / after opening of the safety circuits / typical - maximum  Rescovery time / after mains power cut / typical - rescovery time / after mains power cut / typical - of the cascading-entrance / minimum  South  Control circuit:  Type of voltage / of the controlled supply voltage  Control supply voltage / 1 / for DC / rated value - operating range factor control supply voltage rated value / of the magnet coil	• at 115 V	Α	1
• at 24 V       • at 115 V       A       6         • at 230 V       A       6         Mechanical operating cycles as operating time / typical       30,000,000         Max, permissible voltage for safe isolation / between electronic evaluation device and enabling circuit / according to EN 60947-1       V       400         Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required       gL/gG: 10 A       gL/gG: 10 A         Resistance to direct current / of the cable / maximum       Ω       500         Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum       m       2,000         Make time / with automatic start / after mains power cut       • typical       ms       6,000         • maximum       ms       50         Backsilde delay time / after opening of the safety circuits / typical       ms       50         Recovery time / after opening of the safety circuits / typical       ms       50         Recovery time / after mains power cut / typical       ms       50         Recovery time / after mains power cut / typical       s       7         Pulse duration       • of the cascading-entrance / minimum       s       7         Control circuit       Type of voltage / of the controlled supply voltage       DC         Control	• at 230 V	Α	0.3
• at 115 V       • at 230 V       A       6         Mechanical operating cycles as operating time / typical       30,000,000         Max. permissible voltage for safe isolation / between electronic evaluation device and enabling circuit / according to EN 60947-1       V       400         Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required       gL/gG: 10 A       gL/gG: 10 A         Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum       m       2,000         Make time / with automatic start / after mains power cut       • typical       ms       6,000         • maximum       ms       7,000         Backsilde delay time / after opening of the safety circuits / typical       ms       50         • maximum       ms       120         Recovery time / after opening of the safety circuits / typical       ms       500         Recovery time / after mains power cut / typical       s       7         Pulse duration       • of the cascading-entrance / minimum       s       7         Control circuit:       Type of voltage / of the controlled supply voltage       DC         Control supply voltage / 1 / for DC / rated value       V       24         operating range factor control supply voltage rated value / of the magnet coil       V       24	• at AC-15		
A 6  Mechanical operating cycles as operating time / typical 30,000,000  Max. permissible voltage for safe isolation / between electronic evaluation device and enabling circuit / according to EN 60947-1  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 500  Cable length / between sensor and electronic evaluation device / with cu 1.5 mm² and 150 nF/km / maximum  Make time / with automatic start / after mains power cut  • typical  • maximum  Backslide delay time / after opening of the safety circuits / typical  • maximum  Recovery time / after opening of the safety circuits / typical  • maximum  Recovery time / after opening of the safety circuits / typical  • maximum  Recovery time / after mains power cut / typical  • of the cascading-entrance / minimum  • of the cascading-entrance / minimum  Control circuit:  Type of voltage / of the controlled supply voltage  Control supply voltage / 1 / for DC / rated value  operating range factor control supply voltage rated value / of the magnet coll	• at 24 V	Α	4
Mechanical operating cycles as operating time / typical       30,000,000         Max. permissible voltage for safe isolation / between electronic evaluation device and enabling circuit / according to EN 60947-1       V       400         Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required       gL/gG: 10 A         Resistance to direct current / of the cable / maximum       Ω       500         Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm³ and 150 nF/km / maximum       m       2,000         Make time / with automatic start / after mains power cut       • typical       ms       6,000         • maximum       ms       50         Backslide delay time / after opening of the safety circuits / typical       ms       120         • maximum       ms       120         Recovery time / after opening of the safety circuits / typical       ms       500         Recovery time / after mains power cut / typical       s       7         Pulse duration       • of the cascading-entrance / minimum       s       7         Control circuit:       DC         Control supply voltage / 1 / for DC / rated value       V       24         Operating range factor control supply voltage rated value / of the magnet coll       V       24	• at 115 V	Α	6
Max. permissible voltage for safe isolation / between electronic evaluation device and enabling circuit / according to EN 60947-1       400         Design of the fuse link / for short-circuit protection of the NO contacts of the relay outputs / required       gL/gG: 10 A         Resistance to direct current / of the cable / maximum       Ω       500         Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum       m       2,000         Make time / with automatic start / after mains power cut       • typical       ms       6,000         • maximum       ms       7,000         Backslide delay time / after opening of the safety circuits / typical       ms       50         Backslide delay time / after opening of the safety circuits / typical       ms       120         • naximum       ms       500         Recovery time / after opening of the safety circuits / typical       ms       500         Recovery time / after mains power cut / typical       s       7         Pulse duration       of the cascading-entrance / minimum       s       0.045         Control circuit:       Type of voltage / of the controlled supply voltage       DC         Control supply voltage / 1 / for DC / rated value       V       24         operating range factor control supply voltage rated value / of the magnet coil       V       24	• at 230 V	Α	6
evaluation device and enabling circuit / according to EN 60947-1  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 / after mains power cut  · typical  · maximum  Backslide delay time / after opening of the safety circuits / typical  · maximum  Backslide delay time / at mains power cut  · typical  · maximum  ms 120  Recovery time / after opening of the safety circuits / typical  Recovery time / after mains power cut / typical  · maximum  Resistance to direct mains power cut / typical  resistance to the cascading-entrance / minimum  s 0.045  Control circuit:  Type of voltage / of the controlled supply voltage  Control supply voltage / 1 / for DC / rated value  operating range factor control supply voltage rated value / of the magnet coil	Mechanical operating cycles as operating time / typical		30,000,000
of the relay outputs / required       500         Resistance to direct current / of the cable / maximum       Ω       500         Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum       m       2,000         Make time / with automatic start / after mains power cut       • typical       ms       6,000         • maximum       ms       7,000         Backslide delay time / after opening of the safety circuits / typical       ms       50         Backslide delay time / after opening of the safety circuits / typical       ms       120         • maximum       ms       120         Recovery time / after opening of the safety circuits / typical       ms       500         Recovery time / after mains power cut / typical       s       7         Pulse duration       s       7         • of the cascading-entrance / minimum       s       0.045         Control circuit:         Type of voltage / of the controlled supply voltage       DC         Control supply voltage / 1 / for DC / rated value       V       24         operating range factor control supply voltage rated value / of the magnet coil       Texture in the cascaling in the control supply voltage rated value / of the magnet coil		V	400
Cable length / between sensor and electronic evaluation device / with Cu 1.5 mm² and 150 nF/km / maximum  Make time / with automatic start / after mains power cut  • typical • maximum  Backslide delay time / after opening of the safety circuits / typical • typical • typical • maximum  Backslide delay time / at mains power cut • typical • maximum  Recovery time / after opening of the safety circuits / typical • maximum  Recovery time / after mains power cut / typical  Recovery time / after mains power cut / typical  Recovery time / after mains power cut / typical  Solution • of the cascading-entrance / minimum  Control circuit:  Type of voltage / of the controlled supply voltage  Control supply voltage / 1 / for DC / rated value  Operating range factor control supply voltage rated value / of the magnet coll			gL/gG: 10 A
with Cu 1.5 mm² and 150 nF/km / maximum  Make time / with automatic start / after mains power cut  · typical  · maximum  Backslide delay time / after opening of the safety circuits / typical  Backslide delay time / at mains power cut  · typical  · maximum  ms 120  Recovery time / after opening of the safety circuits / typical  Recovery time / after opening of the safety circuits / typical  Recovery time / after mains power cut / typical  Recovery time / after mains power cut / typical  s 7  Pulse duration  · of the cascading-entrance / minimum  S 0.045  Control circuit:  Type of voltage / of the controlled supply voltage  Control supply voltage / 1 / for DC / rated value  V 24  operating range factor control supply voltage rated value / of the magnet coil	Resistance to direct current / of the cable / maximum	Ω	500
typical ms 6,000 ms 7,000  Backslide delay time / after opening of the safety circuits / typical  Backslide delay time / at mains power cut typical ms 120 ms 120  Recovery time / after opening of the safety circuits / typical ms 120  Recovery time / after opening of the safety circuits / typical Recovery time / after mains power cut / typical s 7  Pulse duration of the cascading-entrance / minimum s 0.045  Control circuits  Type of voltage / of the controlled supply voltage Control supply voltage / 1 / for DC / rated value  V 24  operating range factor control supply voltage rated value / of the magnet coil		m	2,000
maximum ms 7,000  Backslide delay time / after opening of the safety circuits / typical ms 50  Backslide delay time / at mains power cut      typical ms 120      maximum ms 120  Recovery time / after opening of the safety circuits / typical ms 500  Recovery time / after mains power cut / typical s 7  Pulse duration      of the cascading-entrance / minimum s 0.045  Control circuit:  Type of voltage / of the controlled supply voltage DC  Control supply voltage / 1 / for DC / rated value V 24  operating range factor control supply voltage rated value / of the magnet coil	Make time / with automatic start / after mains power cut		
Backslide delay time / after opening of the safety circuits / typical ms 50  Backslide delay time / at mains power cut  • typical ms 120  • maximum ms 120  Recovery time / after opening of the safety circuits / typical ms 500  Recovery time / after mains power cut / typical s 7  Pulse duration  • of the cascading-entrance / minimum s 0.045  Control circuit:  Type of voltage / of the controlled supply voltage DC  Control supply voltage / 1 / for DC / rated value voltage rated value / of the magnet coil	• typical	ms	6,000
Backslide delay time / at mains power cut  • typical  • maximum  ms 120  Recovery time / after opening of the safety circuits / typical  Recovery time / after mains power cut / typical  Recovery time / after mains power cut / typical  s 7  Pulse duration  • of the cascading-entrance / minimum  s 0.045  Control circuit:  Type of voltage / of the controlled supply voltage  Control supply voltage / 1 / for DC / rated value  v 24  operating range factor control supply voltage rated value / of the magnet coil	• maximum	ms	7,000
typical     ms 120  ms 120  Recovery time / after opening of the safety circuits / typical ms 500  Recovery time / after mains power cut / typical s 7  Pulse duration     of the cascading-entrance / minimum s 0.045  Control circuit:  Type of voltage / of the controlled supply voltage DC  Control supply voltage / 1 / for DC / rated value V 24  operating range factor control supply voltage rated value / of the magnet coil	Backslide delay time / after opening of the safety circuits / typical	ms	50
maximum     ms 120  Recovery time / after opening of the safety circuits / typical ms 500  Recovery time / after mains power cut / typical s 7  Pulse duration     of the cascading-entrance / minimum s 0.045  Control circuit:  Type of voltage / of the controlled supply voltage DC  Control supply voltage / 1 / for DC / rated value V 24  operating range factor control supply voltage rated value / of the magnet coil	Backslide delay time / at mains power cut		
Recovery time / after opening of the safety circuits / typical  Recovery time / after mains power cut / typical  s 7  Pulse duration  of the cascading-entrance / minimum  s 0.045  Control circuit:  Type of voltage / of the controlled supply voltage  Control supply voltage / 1 / for DC / rated value  operating range factor control supply voltage rated value / of the magnet coil	• typical	ms	120
Recovery time / after mains power cut / typical  Pulse duration  of the cascading-entrance / minimum  s 0.045  Control circuit:  Type of voltage / of the controlled supply voltage  Control supply voltage / 1 / for DC / rated value  operating range factor control supply voltage rated value / of the magnet coil	• maximum	ms	120
Pulse duration  • of the cascading-entrance / minimum  s 0.045  Control circuit:  Type of voltage / of the controlled supply voltage  Control supply voltage / 1 / for DC / rated value  operating range factor control supply voltage rated value / of the magnet coil	Recovery time / after opening of the safety circuits / typical	ms	500
of the cascading-entrance / minimum     s 0.045  Control circuit:  Type of voltage / of the controlled supply voltage  Control supply voltage / 1 / for DC / rated value  operating range factor control supply voltage rated value / of the magnet coil  one of the cascading-entrance / minimum  s 0.045  DC  24	Recovery time / after mains power cut / typical	s	7
Control circuit:  Type of voltage / of the controlled supply voltage  Control supply voltage / 1 / for DC / rated value  operating range factor control supply voltage rated value / of the magnet coil	Pulse duration		
Type of voltage / of the controlled supply voltage  Control supply voltage / 1 / for DC / rated value  operating range factor control supply voltage rated value / of the magnet coil	of the cascading-entrance / minimum	S	0.045
Control supply voltage / 1 / for DC / rated value V 24  operating range factor control supply voltage rated value / of the magnet coil	Control circuit:		
operating range factor control supply voltage rated value / of the magnet coil	Type of voltage / of the controlled supply voltage		DC
magnet coil	Control supply voltage / 1 / for DC / rated value	V	24
• for DC 0.85 1.1			
	• for DC		0.85 1.1

## Auxiliary circuit:

Contact reliability / of the auxiliary contacts		< 1 error per 100 million operating cycles
Installation/mounting/dimensions:		
mounting position		any
Type of mounting		screw and snap-on mounting
Width	mm	90
Height	mm	132
Depth	mm	149

Connections:		
Design of the electrical connection		spring-loaded terminals
Type of the connectable conductor cross-section		
• solid		1x (0.2 2.5 mm²)
finely stranded		
without wire end processing		1x (0.25 1.5 mm²)
Type of the connectable conductor cross-section / for AWG conductors		
• solid		1x (24 18)
• stranded		1x (24 18)

Product Function:	
Product function	
light barrier monitoring	No
standstill monitoring	No
protective door monitoring	No
automatic start	No
<ul> <li>magnetic switch monitoring Normally closed contact-Normally open contact</li> </ul>	No
rotation speed monitoring	No
laser scanner monitoring	No
monitored start-up	No
light grid monitoring	No
<ul> <li>magnetic switch monitoring Normally closed contact-Normally closed contact</li> </ul>	Yes
emergency stop function	Yes
step mat monitoring	No
Suitability for interaction / pressing control	No
Acceptability for application	
safety cut-out switch	Yes
position switch monitoring	Yes
EMERGENCY-OFF circuit monitoring	Yes
valve monitoring	No

• tactile sensor monitoring

· magnetically operated switches monitoring

· safety-related circuits

No

No

Yes

### Certificates/approvals:

Verification of suitability

UL, CSA, EN 60204-1, EN ISO 12100, EN 954-1, IEC

61508

• TÜV (German technical inspectorate) certificate

Yes

UL-registration

Yes

· BG BIA certificate

Yes

Functional Safety / Safety of Machinery

General Product Approval











**EMC** 



Declaration of Conformity

**Test Certificates** 

other

CE EG-Konf.

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)

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

#### Cax online generator:

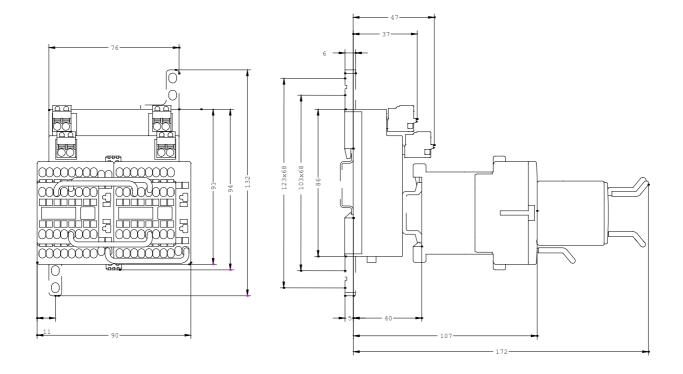
http://www.siemens.com/cax

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

http://support.automation.siemens.com/WW/view/en/3TK2856-2BB40/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3TK2856-2BB40}$ 



last change: Feb 18, 2013