SIEMENS

Data sheet

3TK2834-1AB20



SIRIUS safety relay with relay enabling circuits (EC) 24 V AC, 45 mm overall width Screw terminal EC instantaneous: 2 NO + 2 NC EC delayed: 0 SC: 0 Press control device maximum achieved SIL: 3, PL: e

Figure similar		
product brand name	SIRIUS	
product designation	safety relays	
design of the product	for press control units	
General technical data		
protection class IP of the enclosure	IP20	
protection class IP of the terminal	IP20	
touch protection against electrical shock	finger-safe	
insulation voltage rated value	300 V	
ambient temperature		
 during storage 	-40 +80 °C	
 during operation 	-25 +60 °C	
air pressure according to SN 31205	90 106 kPa	
relative humidity during operation	10 95 %	
installation altitude at height above sea level maximum	2 000 m	
vibration resistance according to IEC 60068-2-6	5 500 Hz: 0,075 mm	
shock resistance	8g / 10 ms	
surge voltage resistance rated value	4 000 V	
EMC emitted interference	EN 60947-5-1	
installation environment regarding EMC	This product is suitable for Class A environments only. In household environments, this device can cause unwanted radio interference. The user is required to implement appropriate measures in this case.	
reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750	KT	
reference code according to EN 61346-2	F	
number of sensor inputs		
• 2-channel	1	
design of the cascading	none	
type of the safety-related wiring of the inputs	two-channel	
product feature cross-circuit-proof	Yes	
Safety Integrity Level (SIL)		
 according to IEC 61508 	3	
SIL Claim Limit (subsystem) according to EN 62061	3	
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	0.000000014 1/h	
T1 value for proof test interval or service life according to IEC 61508	20 у	
number of outputs as contact-affected switching element		
 as NC contact 		

 for signaling function instantaneous contact 	0
 as NO contact 	
 — safety-related instantaneous contact 	4
 — safety-related delayed switching 	0
number of outputs as contact-less semiconductor	
switching element	
 safety-related 	
 — delayed switching 	0
 — instantaneous contact 	0
 for signaling function 	
 — delayed switching 	0
 instantaneous contact 	0
stop category according to EN 60204-1	0
Inputs	
design of input	
 cascading input/functional switching 	No
 feedback input 	Yes
start input	No
Outputs	
	Vee
type of electrical connection plug-in socket	Yes
operating frequency maximum	1 000 1/h
switching capacity current	
• of the NO contacts of the relay outputs at DC-13	
— at 24 V	6 A
— at 115 V	0.2 A
— at 230 V	0.1 A
• of the NO contacts of the relay outputs at AC-15	
— at 115 V	5 A
— at 230 V	5 A
 of the NC contacts of the relay outputs at DC-13 	
— at 24 V	6 A
— at 115 V	0.2 A
— at 230 V	0.1 A
• of the NC contacts of the relay outputs at AC-15	
— at 115 V	5 A
— at 230 V	5 A
thermal current of the switching element with	6 A
contacts maximum	100 000
electrical endurance (operating cycles) typical mechanical service life (operating cycles) typical	10 000 000
design of the fuse link for short-circuit protection of	gL/gG: 6 A, or quick: 10 A
the NO contacts of the relay outputs required	gL/gG. 6 A, of quick. TO A
DC resistance of the cable maximum	30 Ω
wire length between sensor and electronics	1 000 m
evaluation device with Cu 1.5 mm ² and 150 nF/km	
maximum	
Times	
make time with automatic start	
• at AC maximum	100 ms
recovery time after opening of the safety circuits	250 ms
typical	
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
control supply voltage 1 at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
operating range factor control supply voltage rated	
value of magnet coil	
• at AC	
— at 50 Hz	0.85 1.1
— at 60 Hz	0.85 1.1

Installation/mounting/ dimensions mounting position fastening method screw and snap-on mounting with height 138 5 mm depth 120 mm Connectable conductor cross-sections screw-type terminals type of electrical connectable conductor cross-sections at XWG cables - with core end processing 1x (0.52.5 mm ²). 2x (0.51.5 mm ²) Froduct Function product function i standati monitoring i sutability for interaction press control i suitability for interaction press control i suitability for use i monitoring of non-floating sensors i safely-related circuits i type s i conting of non-floating sensors i safely-related circuit monitoring i standati i sensor monitoring i selse preval i selse proval i selse sensor monitoring i	• at DC	0.85 1.1				
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urther information

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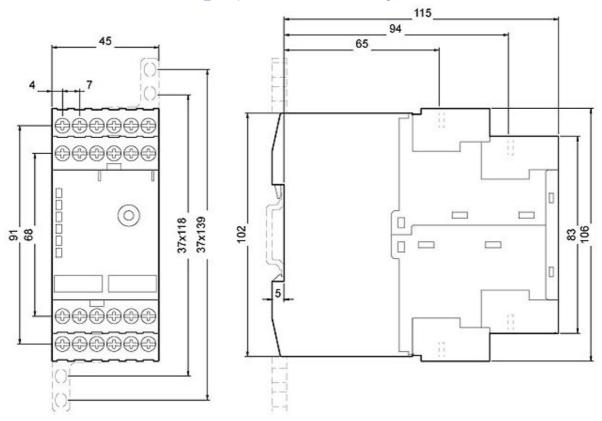
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3TK2834-1AB20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TK2834-1AB20&lang=en



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