1979

## SAFETY RELAY SRB... SERIES, SINGLE FUNCTION, 2NO, FOR EMERGENCY STOP, AUXILIARY SUPPLY 24VAC/DC, UP TO CAT.4, PLE

	***	
	##=	
	SRB Single function	
	Emergency stop	
	2NO	
les	>10 <sup>7</sup>	
	24VAC/DC	
/	2226VDC /	
	20.427.6VAC	
Z	50/60	
	III	
/	4	
	Short circuit with PTC	
r.	2	
r. Ω A	Max 1	
Α	Typical 5	
r.	2	
r.	0	
r.	0	
	Voltage free	
	contacts, relays	

Product type designation         Single function           General characteristics         Emergency stop           General characteristics         Emergency stop           Contact characteristics         2NO           Operations         Cycles         >10°           Mechanical life         cycles         >10°           Auxiliary supply         24VAC/DC           Operating range         V         2226VDC / 20.427.6VAC           Frequency range         Hz         50/60           Overvoltage category         III         III           Insulation voltage         kV         4           Protections         Short circuit with PTC           Input characteristics         Nr. 2           Number of inputs         Nr. 2           Resistance input circuit         KQ         Max 1           Input current         mA         Typical 5           Output characteristics         Nr. 2         Number of safe outputs NC         Nr. 0           Number of safe outputs NC         Nr. 0         Nr. 0           Number of safe outputs NC         Nr. 0         Nr. 0           Output type         Cycles of Acception of	Product designation		SRB
General characteristics         Emergency stop contact contact characteristics         Emergency stop contact characteristics           Type of contact Operations         2NO           Mechanical life         cycles         >10°           Auxiliary supply         24VAC/DC           Operating range         ½         2226VDC / 20.427.6VAC           Frequency range         Hz         50′60°           Overvoltage category         III         III           Insulation voltage         kV         4           Protections         Nr. 2         2           Resistance input circuit         kΩ         Max 1           Input characteristics         mA         Typical 5           Number of inputs         Nr. 2         2           Resistance input circuit         kΩ         Max 1           Input current         mA         Typical 5           Output current         Nr. 0         Nr. 0           Number of safe outputs NC         Nr. 0           Number of feedback outputs         Nr. 0         Voltage free contacts, relays with forcibly guided contacts with forcibly guided contacts (relays with forcibly guided contacts (relays with forcibly guided contacts (relays and present of the programment of the progra	Product type designation		Single function
Emergency stop	General characteristics		
Contact Operations           Operations         2NO           Mechanical life         cycles         >10"           Auxiliary supply         24VAC/DC           Operating range         V 2226VDC / 20.4.27.6VAC           Frequency range         Hz 50/60           Overvoltage category         III           Insulation voltage         kV 4           Protections         Short circuit with PTC           Input characteristics         Nr. 2           Number of inputs         Nr. 2           Resistance input circuit         mA 7 ypical 5           Output characteristics         Nr. 2           Number of safe outputs NC         Nr. 0           Number of safe outputs NC         Nr. 0           Number of feedback outputs NC         Nr. 0           Output type         Voltage free contacts, relays with forcibly guided contacts with forcibly guided contacts and contacts ratings         2300/: 3A DC 1 24V: 6A DC13 24V: 2.5A           Output contacts ratings         2300/: 3A DC 1 24V: 6A DC13 24V: 2.5A           UL 508 ratings         R300           Mechanical life         cycles 310°           Electrical life AC1 at 360 commutations/h         cycles 10°           So 13849-1 security category         Cat. 4           ISO 138	General characteristics		
Contact characteristics	Functions		Emergency stop
Type of contact	Contact characteristics		
Operations         Cycles         >10°           Mechanical life         cycles         >10°           Awaitary supply         Pominial auxiliary voltage supply         24VAC/DC           Operating range         V         2226VDC / 20.427.6VAC           Frequency range         Hz         50/60           Overvoltage category         III         III           Insulation voltage         kV         4           Protections         Short circuit with PTC           Input characteristics         Nr.         2           Resistance input circuit         kΩ         Max 1           Input current         mA         Typical 5           Output current         mA         Typical 5           Number of safe outputs NO         Nr.         2           Number of safe outputs NC         Nr.         0           Number of feedback outputs         Nr.         0           Output type         Voltage free contacts, relays with forcibly guided contacts           Output contacts ratings         AC1 250%: 6A-2000/A AC15           Output contacts ratings         230%: 3A DC1         24%: 6A DC13           UL 508 ratings         Pilot duty: B300-R300         2000/A AC15         2000/A AC15           Substraingly			2NO
Mechanical life         cycles         >10°           Auxiliary supply         24VAC/DC           Nominal auxiliary voltage supply         2226VDC / 20.427.6VAC           Frequency range         Hz         50/60           Overvoltage category         III           Insulation voltage         kV         4           Protections         Short circuit with PTC           Input characteristics         V           Number of inputs         KC         Max 1           Input current         mA         Typical 5           Output current         mA         Typical 5           Unumber of safe outputs NO         Nr.         2           Number of safe outputs NO         Nr.         0           Number of feedback outputs         Nr.         0           Output type         Voltage free contacts, relays with forcibly guided contacts         Voltage free contacts, relays with forcibly guided contacts           Output contacts ratings         2300 X A C D C           Output contacts ratings         2300 X A C D C           UL 508 ratings         Pilot duty: B300-R300           Mechanical life         cycles         10°           Electrical life AC1 at 360 commutations/h         cycles         10°           Elect	**		
Nominal auxiliary voltage supply   Set   Valuation   Set   Valuation   Set   Set	•	cycles	>107
Nominal auxiliary voltage supply         24VAC/DC           Operating range         v         2226VDC / 20.427 6VAC           Frequency range         Hz         50/60           Overvoltage category         III           Insulation voltage         kV         4           Protections         Short circuit with PTC           Input characteristics         V         2           Number of inputs         Nr.         2           Resistance input circuit         K0         Max 1           Input current         mA         Typical 5           Output characteristics         W         2           Number of safe outputs NO         Nr.         2           Number of safe outputs NC         Nr.         0           Number of feedback outputs         Nr.         0           Output type         Voltage free contacts, relays with forcibly w		0,0.00	10
Operating range         V 2226VDC / 20.4276VAC           Frequency range         Hz 50/60           Overvoltage category         IIII           Insulation voltage         kV 4           Protections         Short circuit with PTC           Input characteristics         Nr. 2           Resistance input circuit         kQ Max 1           Input current         mA Typical 5           Output current         mA Typical 5           Number of safe outputs NO         Nr. 2           Number of safe outputs NC         Nr. 0           Number of feedback outputs         Nr. 0           Output type         Voltage free contacts, relays with forcibly guided contacts with forcibly guided contacts active contacts, relays with forcibly guided contacts active contacts ratings         AC1 250∨ 6A-2000∨A AC15           Output contacts ratings         230V: 3A DC1 24V: 2.5A           UL 508 ratings         Pilot duty: B300-R300           Mechanical life         cycles         10³           Electrical life AC1 at 360 commutations/h         cycles         10³           Safety parameters         SCB1 3849-1 security category         Cat. 4           Cable connection         Removable screw terminal			24\/AC/DC
Operating range         V         20.427.6VAC           Frequency range         Hz         50/60           Overvoltage category         III           Insulation voltage         kV         4           Protections         Short circuit with PTC           Input characteristics         V         2           Resistance input circuit         kΩ         Max 1           Input current         mA         Typical 5           Output current         Nr.         2           Number of safe outputs NO         Nr.         2           Number of safe outputs NC         Nr.         0           Number of feedback outputs         Nr.         0           Output type         Voltage free contacts, relays with forcibly guided contacts and contacts relays with forcibly guided contacts         AC1 250V: 6A-2000VA AC15           Output contacts ratings         230V: 3A DC1         24V: 2.5A           UL 508 ratings         Pilot duty: B300-R300           Mechanical life         cycles         >107           Electrical life AC1 at 360 commutations/h         cycles         >107           Safety parameters         SO 13849-1 security category         Cat. 4           Kechanical features         Removable screw terminal	Northinal auxiliary voltage supply		
Overvoltage category         III           Insulation voltage         kV         4           Protections         Short circuit with PTC           Input characteristics         Nr. 2           Resistance input circuit         Max 1           Input current         mA Typical 5           Output characteristics         Voltage free contacts afse outputs NO           Number of safe outputs NC         Nr. 0           Number of feedback outputs         Nr. 0           Output type         Voltage free contacts, relays with forcibly guided contacts           AC1 250V: 6A-2000VA AC15         AC1 250V: 6A-2000VA AC15           Output contacts ratings         230V: 3A DC1 24V: 6A DC13 24V: 2.5A           UL 508 ratings         Pilot duty: B300-R300           Mechanical life         cycles > 10°           Electrical life AC1 at 360 commutations/h         cycles > 10°           Safety parameters         SC 13849-1 security category         Cat. 4           SO 13849-1 security category         Cat. 4           Cable connection         Removable screw terminal			20.427.6VAC
Insulation voltage	Frequency range	Hz	
Protections   Short circuit with PTC	Overvoltage category		III
PTC     Input characteristics   Nr.   2     Resistance input circuit   MΩ   Max 1     Input current   MΩ   Typical 5     Output characteristics   Nr.   2     Number of safe outputs NO   Nr.   2     Number of safe outputs NC   Nr.   0     Number of feedback outputs NC   Nr.   0     Number of feedback outputs NC   Nr.   0     Output type   Voltage free contacts, relays with forcibly guided contacts     AC1 250V: 6A-2000VA AC15     230V: 3A DC1     24V: 6A DC13     24V: 2.5A     UL 508 ratings   Pilot duty: B300-R300     Mechanical life   Cycles   10°     Electrical life AC1 at 360 commutations/h   Cycles   10°     Safety parameters     ISO 13849-1 security category   Cat. 4     ISO 13849-1 performance level   PLe     Mechanical features     Cable connection   Removable screw terminal     Output contacts ratings   Removable screw terminal     Removable screw terminal     Removable screw terminal     Removable screw terminal     Output contacts ratings   Removable screw terminal	Insulation voltage	kV	4
Number of inputs         Nr.         2           Resistance input circuit         kΩ         Max 1           Input current         mA         Typical 5           Output characteristics         Nr.         2           Number of safe outputs NC         Nr.         0           Number of feedback outputs         Nr.         0           Output type         Voltage free contacts, relays with forcibly guided contacts         AC1 250V: 6A-2000VA AC15           Output contacts ratings         230V: 3A DC1 24V: 6A DC13 24V: 2.5A           UL 508 ratings         Pilot duty: B300-R300           Mechanical life         cycles >10°           Electrical life AC1 at 360 commutations/h         cycles >10°           Safety parameters         ISO 13849-1 security category         Cat. 4           ISO 13849-1 performance level         PLe           Mechanical features         Removable screw terminal           Cable connection         Removable screw terminal	Protections		
Number of inputs         Nr.         2           Resistance input circuit         kΩ         Max 1           Input current         mA         Typical 5           Output characteristics         Nr.         2           Number of safe outputs NC         Nr.         0           Number of feedback outputs         Nr.         0           Output type         Voltage free contacts, relays with forcibly guided contacts         AC1 250V: 6A-2000VA AC15           Output contacts ratings         230V: 3A DC1 24V: 6A DC13 24V: 2.5A           UL 508 ratings         Pilot duty: B300-R300           Mechanical life         cycles >10°           Electrical life AC1 at 360 commutations/h         cycles >10°           Safety parameters         ISO 13849-1 security category         Cat. 4           ISO 13849-1 performance level         PLe           Mechanical features         Removable screw terminal           Cable connection         Removable screw terminal	Input characteristics		
Resistance input circuit         kΩ         Max 1           Input current         mA         Typical 5           Output characteristics            Number of safe outputs NO         Nr. 0           Number of feedback outputs NC         Nr. 0           Number of feedback outputs         Voltage free contacts, relays with forcibly guided contacts and public free contacts, relays with forcibly guided contacts and public free contacts	·	Nr.	2
Input current         mA         Typical 5           Output characteristics         Nr.         2           Number of safe outputs NC         Nr.         0           Number of feedback outputs         Nr.         0           Output type         Voltage free contacts, relays with forcibly guided contacts           AC1 250V: 6A-2000VA AC15         AC1 250V: 6A-2000VA AC15           Output contacts ratings         230V: 3A DC1 24V: 6A DC13 24V: 2.5A           UL 508 ratings         Pilot duty: B300-R300           Mechanical life         cycles 710 <sup>7</sup> Electrical life AC1 at 360 commutations/h         cycles 70 <sup>7</sup> Electrical life AC1 at 360 commutations/h         cycles 70 <sup>7</sup> Safety parameters         ISO 13849-1 security category         Cat. 4           ISO 13849-1 performance level         PLe           Mechanical features         Removable screw terminal	·		
Output characteristics         Nr.         2           Number of safe outputs NC         Nr.         0           Number of feedback outputs         Nr.         0           Output type         Voltage free contacts, relays with forcibly guided contacts           Output contacts ratings         AC1 250V: 6A-2000VA AC15           Output contacts ratings         230V: 3A DC1           24V: 6A DC13         24V: 2.5A           UL 508 ratings         Pilot duty: B300-R300           Mechanical life         cycles         >10°           Electrical life AC1 at 360 commutations/h         cycles         10°           Safety parameters         ISO 13849-1 security category         Cat. 4           ISO 13849-1 performance level         PLe           Mechanical features         Removable screw terminal           Cable connection         Removable screw terminal	·		
Number of safe outputs NO         Nr.         2           Number of safe outputs NC         Nr.         0           Number of feedback outputs         Nr.         0           Output type         Voltage free contacts, relays with forcibly guided contacts           Output contacts ratings         AC1 250V: 6A-2000VA AC15           Output contacts ratings         230V: 3A DC1           24V: 6A DC13         24V: 6A DC13           24V: 2.5A         Pilot duty: B300-R300           Mechanical life         cycles         >10°           Electrical life AC1 at 360 commutations/h         cycles         10°           Safety parameters         Safety parameters           ISO 13849-1 security category         Cat. 4           ISO 13849-1 performance level         PLe           Mechanical features         Removable screw terminal	•	11174	турісаі э
Number of safe outputs NC         Nr.         0           Number of feedback outputs         Nr.         0           Output type         Voltage free contacts, relays with forcibly guided contacts           AC1 250V: 6A-2000VA AC15         2000VA AC15           Output contacts ratings         230V: 3A DC1 24V: 6A DC13 24V: 2.5A           UL 508 ratings         Pilot duty: B300-R300           Mechanical life         cycles >10°           Electrical life AC1 at 360 commutations/h         cycles 10°           Safety parameters         ISO 13849-1 security category         Cat. 4           ISO 13849-1 performance level         PLe           Mechanical features         Removable screw terminal	•	Nle	2
Number of feedback outputs         Nr.         0           Output type         Voltage free contacts, relays with forcibly guided contacts           AC1 250V: 6A-2000VA AC15         230V: 3A DC1 230V: 3A DC1 24V: 6A DC13 24V: 2.5A           UL 508 ratings         Pilot duty: B300-R300           Mechanical life         cycles >107           Electrical life AC1 at 360 commutations/h         cycles 105           Safety parameters         ISO 13849-1 security category         Cat. 4           ISO 13849-1 performance level         PLe           Mechanical features         Removable screw terminal	<u>'</u>		
Output type  Output type  Output type  Output contacts, relays with forcibly guided contacts  AC1 250V: 6A- 2000VA AC15 230V: 3A DC1 24V: 6A DC13 24V: 2.5A  Pilot duty: B300- R300  Mechanical life	'		-
Output type  contacts, relays with forcibly guided contacts  AC1 250V: 6A- 2000VA AC15  Output contacts ratings  230V: 3A DC1 24V: 6A DC13 24V: 2.5A  UL 508 ratings  Pilot duty: B300- R300  Mechanical life cycles >107  Electrical life AC1 at 360 commutations/h cycles 105  Safety parameters  ISO 13849-1 security category  SO 13849-1 performance level  Mechanical features  Cable connection  Removable screw terminal	Number of feedback outputs	Nr.	
Output contacts ratings  230V: 3A DC1 24V: 6A DC13 24V: 2.5A  UL 508 ratings  Pilot duty: B300- R300  Mechanical life  cycles >107  Electrical life AC1 at 360 commutations/h cycles 105  Safety parameters  ISO 13849-1 security category Cat. 4  ISO 13849-1 performance level Mechanical features  Cable connection  Removable screw terminal			
With forcibly guided contacts   AC1 250V: 6A-2000VA AC15   230V: 3A DC1 24V: 6A DC13 24V: 2.5A	Output type		
AC1 250V: 6A- 2000VA AC15			
Output contacts ratings       2000VA AC15         230V: 3A DC1       24V: 6A DC13         24V: 2.5A       Pilot duty: B300-R300         Mechanical life       cycles       >107         Electrical life AC1 at 360 commutations/h       cycles       105         Safety parameters       ISO 13849-1 security category       Cat. 4         ISO 13849-1 performance level       PLe         Mechanical features       Removable screw terminal			
Output contacts ratings       230V: 3A DC1         24V: 6A DC13       24V: 2.5A         UL 508 ratings       Pilot duty: B300-R300         Mechanical life       cycles >107         Electrical life AC1 at 360 commutations/h       cycles 105         Safety parameters       ISO 13849-1 security category       Cat. 4         ISO 13849-1 performance level       PLe         Mechanical features       Removable screw terminal			
24V: 6A DC13 24V: 2.5A  UL 508 ratings  Pilot duty: B300- R300  Mechanical life cycles >107  Electrical life AC1 at 360 commutations/h cycles 105  Safety parameters ISO 13849-1 security category Cat. 4 ISO 13849-1 performance level PLe  Mechanical features  Cable connection  Removable screw terminal	Output contacts vatings		
24V: 2.5AUL 508 ratingsPilot duty: B300-R300Mechanical lifecycles>107Electrical life AC1 at 360 commutations/hcycles105Safety parametersISO 13849-1 security categoryCat. 4ISO 13849-1 performance levelPLeMechanical featuresRemovable screw terminal	Output contacts ratings		
UL 508 ratings  Pilot duty: B300-R300  Mechanical life  cycles >10 <sup>7</sup> Electrical life AC1 at 360 commutations/h  Safety parameters  ISO 13849-1 security category  Cat. 4  ISO 13849-1 performance level  Mechanical features  Cable connection  Pilot duty: B300-R300  R200  PL07  Cycles 10 <sup>5</sup> Cat. 4  Removable screw terminal			
Mechanical life cycles >10 <sup>7</sup> Electrical life AC1 at 360 commutations/h cycles 10 <sup>5</sup> Safety parameters  ISO 13849-1 security category Cat. 4  ISO 13849-1 performance level PLe  Mechanical features  Cable connection Removable screw terminal			
Mechanical lifecycles>107Electrical life AC1 at 360 commutations/hcycles105Safety parametersISO 13849-1 security categoryCat. 4ISO 13849-1 performance levelPLeMechanical featuresRemovable screw terminal	UL 508 ratings		
Electrical life AC1 at 360 commutations/h  Safety parameters  ISO 13849-1 security category  ISO 13849-1 performance level  Mechanical features  Cable connection  Cable connection  Cycles  105  Cat. 4  PLe  Removable screw terminal	Machanical life	ovoloc	
Safety parameters ISO 13849-1 security category Cat. 4 ISO 13849-1 performance level PLe Mechanical features Cable connection Removable screw terminal			
ISO 13849-1 security category  ISO 13849-1 performance level  Mechanical features  Cable connection  Cat. 4  PLe  Removable screw terminal		cycles	1U <sup>-</sup>
ISO 13849-1 performance level PLe  Mechanical features  Cable connection Removable screw terminal	• •		0-1-4
Mechanical features  Cable connection  Removable screw terminal			
Cable connection Removable screw terminal	·	PLe	
Screw terminal	Mechanical features		
screw terminal	Cable connection		
Fixing 35mm DIN rail			
	Fixing		35mm DIN rail

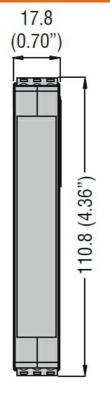


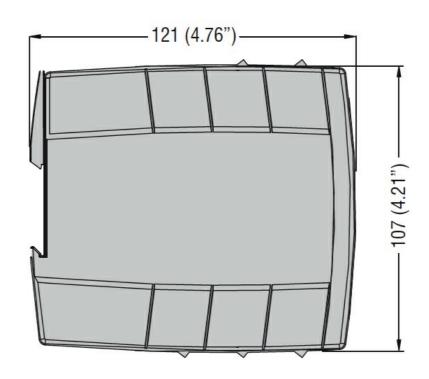
**ENERGY AND AUTOMATION** 

SAFETY RELAY SRB... SERIES, SINGLE FUNCTION, 2NO, FOR EMERGENCY STOP, AUXILIARY SUPPLY 24VAC/DC, UP TO CAT.4, PLE

Weight			g	209
Ambient conditions				
Protection degree				IP40 on front IP20 on terminals
Pollution degree				2
Temperature				
	Operating temperature			
		min	°C	-25
		max	°C	+60
	Storage temperature			_
		min	°C	-30
		max	°C	+70
Relative humidity			%	≤95

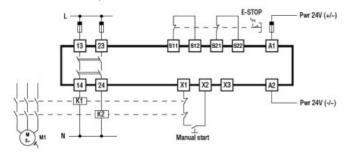
## Dimensions



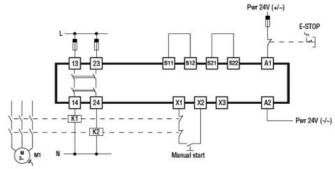


### Wiring diagrams

Double channel mode, manual start



# Single channel mode, manual start



### Certifications and compliance

Compliance

EN/BS 13849-1

EN/BS 81-20

EN/BS 81-50



### SRBES20

SAFETY RELAY SRB... SERIES, SINGLE FUNCTION, 2NO, FOR EMERGENCY STOP, AUXILIARY SUPPLY 24VAC/DC, UP TO CAT.4, PLE

Certificates		
	cULus	
	TÜV	
ETIM classification		
		EC001449 -

ETIM 8.0

EC001449 -Device for monitoring of safety-related circuits