



Safety relay EMERGENCY STOP 24V AC/DC

Part no. ESR5-NO-41-24VAC-DC

Article no. 118701



Program

Supply voltage			24 V DC 24 V AC, 50/60 Hz
Function			Single-channel
Basic function			Emergency stop; emergency switching off Protective door
Approval			
Suitable for			Cat. 2 according to EN 954-1 PL d according to EN ISO 13849-1 SILCL 3 according to IEC 62061 SIL 3 according to IEC 61508 Cat. 4/Pl e possible only with the aid of fault exclusions.
Number of enabling paths to IEC/EN 60204 Stop category			
0			4
Signalling contacts			1

Approbationen

Product Standards	IEC/EN see Technical Data; UL 508; CSA-C22.2 No. 14-95; CE marking
UL File No.	E29184
UL CCN	NKCR; NKCR7
CSA File No.	UL report applies to both US and Canada
CSA Class No.	3211-83; 3211-03
NA Certification	UL listed, certified by UL for use in Canada
Degree of Protection	IEC: IP20, UL/CSA Type: -

General

Standards			EN ISO 13849-1, IEC 62061, IEC 61508, EN 50178
Lifespan, mechanical	Operations	x 10 ⁶	10
Maximum operating frequency		Ops./ h	
Max. operating frequency		Ops./ h	3600
Climatic proofing			Dry heat according to EN60068-2-2, damp heat according to EN 60068-2-3
Ambient temperature		°C	- 20 - 55
Ambient temperature, storage		°C	- 25 - 75
Mounting position			As required
Vibrations (IEC/EN 60068-2-6)			2 g, frequency: 10 - 150 Hz, amplitude: 0.15 mm
Degree of protection			
Enclosures			IP20
Terminals			IP20
Protection against direct contact when actuated from front (EN 90274)			Fingerproof and back-of-hand proof
Weight		kg	0.22
Terminal capacities		mm ²	
Solid core or stranded		mm ²	1 x (0.2 - 2.5) 2 x (0.2 - 1)
Flexible with ferrule		mm ²	1 x (0.25 - 2.5)

			2 x (0.25 - 1)
Solid or stranded		AWG	24...12
Terminal screw		Nm	
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.6 x 3.5
Max. tightening torque		Nm	0.6

Main conducting paths

Rated impulse withstand voltage	U_{imp}	V AC	4000
Overvoltage category/pollution degree			
outside			III/2
Rated insulation voltage	U_i	V AC	250
Rated operational voltage	U_e	V AC	230
Rated operational current	I_e	A	
AC-15			
230 V (360 ops./h)	I_e	A	4
230 V (3600 ops./h)	I_e	A	3
DC-13	I_e		
24 V (360 ops./h)	I_e	A	4
24 V (3600 ops./h)	I_e	A	2.5
Max. summation current of all poles			
24 V AC/DC devices		A	72
Square of the total current (and total current) of all current paths			$72 A^2$ (4.2 + 4.2 + 4.2 + 4.2)
Protection of an output circuit			Fuse: 6 A gL/gG Miniature circuit-breaker with characteristic C: 24 V AC/DC 6 A

Power supply circuit

Actuating voltage 50/60 Hz	U_s	V AC	24
Actuating voltage	U_s	V DC	24
Voltage tolerance, pick-up		x U_e	0.85 ... 1.1
Power consumption			
AC operated 50/60 Hz		W	3.4
DC operated		W	1.6
Fuse for control circuit supply			
24 V			Short-circuit protected

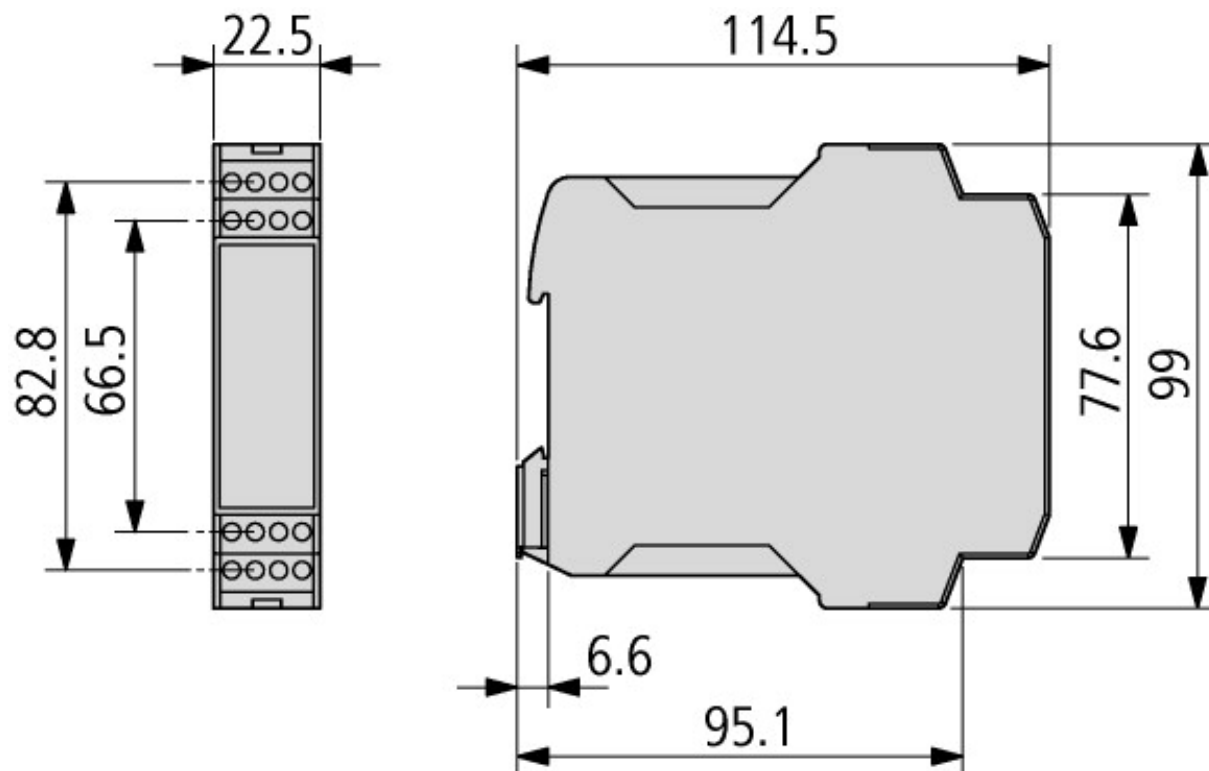
Control circuit

Rated output voltage		V DC	 24
Rated current		mA	S12: 65, S34: 40
Impedance	R	Ω	22
Short-circuit current		A	2.3
Response time		ms	65
Response time without reset monitoring	tA2	ms	65
Reset time	tr1	ms	45
OFF-delay	trz	s	-
Recovery time	tW	ms	ca. 1000

Electromagnetic compatibility (EMC)

Emitted interference			EN 61000-6-4
Interference immunity			according to EN 61000-6-2

Dimensions



Additional product information (links)

Installation Instructions	http://www.moeller.net/en/support/instructions_awa.jsp
Documentation	http://www.moeller.net/en/support/index.jsp