



eloProg relay modules 485EPR

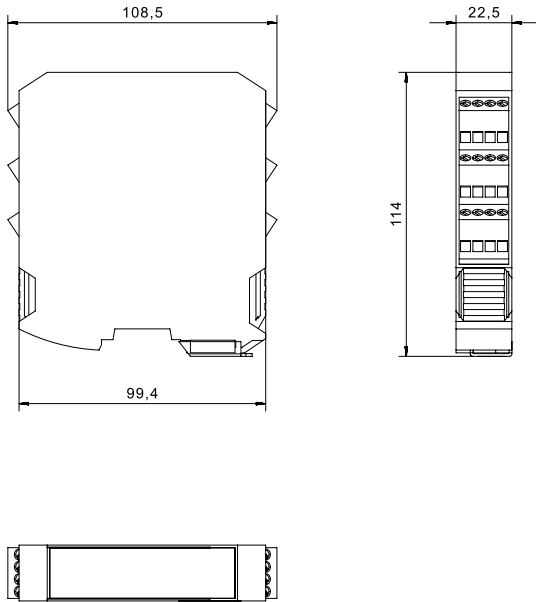
The expansion modules with relay outputs have up to 4 force-guided NO relay contacts. They have been designed to handle 6A and 240V AC. In addition, up to 8 electronic control outputs are available for diagnostics.

Technical specifications

- Up to 4 safe, redundant relay outputs (NO contacts)
- Diagnostics via up to 4 configurable control outputs and LEDs
- Up to 4 EDM inputs for monitoring of downstream contactors or connection of a start push button
- EDM output for return to base or output module
- Depending on the variant, connection to the base module and other expansion modules with pre-assembled T-connector (proprietary 5-waybus) or wiring via connection terminals

Technical drawing

IMAGE 1/1



Attribute	485EPR02	485EPR04	485EPR04S00B	485EPR04S08B
Utilization category	AC-15 4A 230V / DC-13 4A 24V		-	
DC	Depending on the configuration %			
Connection to output module	-		via connection terminals	

Electrical data

Attribute	485EPR02	485EPR04	485EPR04S00B	485EPR04S08B
Min. switching voltage at safety output	10 V DC			
Max. switching voltage at safety output	250 V DC			
Min. switching voltage at safety output	10 V AC			
Max. switching voltage at safety output	400 V AC	230 V AC	240 V AC	400 V AC
Min. switching current at safety output	0.02 A			
Max. switching current at safety output	6 A			
Max. switching current at control output	-			0.1 A
Response time	12 ms			
Number of relay safety outputs	3	6	4	
Number of relay control outputs	-			8
Feedback circuit	Depending on the configuration			
Operating voltage min.	19.2 V DC			
Operating voltage max.	28.8 V DC			
Power consumption	3 W			
LED display	two-coloured		four-coloured	No

Safety-related characteristics

Attribute	485EPR02	485EPR04	485EPR04S00B	485EPR04S08B
PL acc. to EN ISO 13849-1	e			
SIL acc. to IEC 61508	3			
SIL CL acc. to IEC 62061	3			
PFHD according to IEC 61508	depending on the configuration 1/h		2,9 x 10 ⁻⁹ 1/h	
Operating life	20 Tm			
Max no operating cycles at 1A switching current AC15 230V(B10d)	750000			-
Max no operating cycles at 2A switching current DC13 24V (B10d)	10000000			-
Max no operating cycles at 3A switching current AC15 230V(B10d)	300000			-

Mechanical data

Attribute	485EPR02	485EPR04	485EPR04S00B	485EPR04S08B
Service life, mechanical (Cycles)	> 20 x 10 ⁶		> 40 x 10 ⁶	> 40 x 10 ⁶
Dimensions	108 x 22,5 x 114,5 mm (H/B/T)			

Material information

Attribute	485EPR02	485EPR04	485EPR04S00B	485EPR04S08B
Housing material	PA			
Housing colour	Gehaeuse schwarz Frontplatte gelb			

Environmental conditions

Attribute	485EPR02	485EPR04	485EPR04S00B	485EPR04S08B
Protection class, housing	IP20 DIN EN 60529			IP54 DIN EN 60529
Operating temperature min.	-10 °C			
Max. operating temperature	55 °C			
Min. storage temperature	-20 °C			
Max. storage temperature	85 °C			
Relative humidity	10...95 %			

Installation

Attribute	485EPR02	485EPR04	485EPR04S00B	485EPR04S08B
Mounting type	Mounting rail			
Weight	150 g			
Torque for connection terminals	0.6 N m			

Connection

Attribute	485EPR02	485EPR04	485EPR04S00B	485EPR04S08B
Connection to base module	via connection terminals		proprietary 5-way bus (T-connector)	
Screw terminals	yes			
Pluggable connection terminals	yes			
Min. connection cross section	0.5 mm ²			
Max. connection cross section	2.5 mm ²			

Approvals

Attribute	485EPR02	485EPR04	485EPR04S00B	485EPR04S08B
Certified in accordance with	EN ISO 13849-1 IEC 61508 IEC 62061 UL 508 / CSA 22.2			-
CE label	yes			