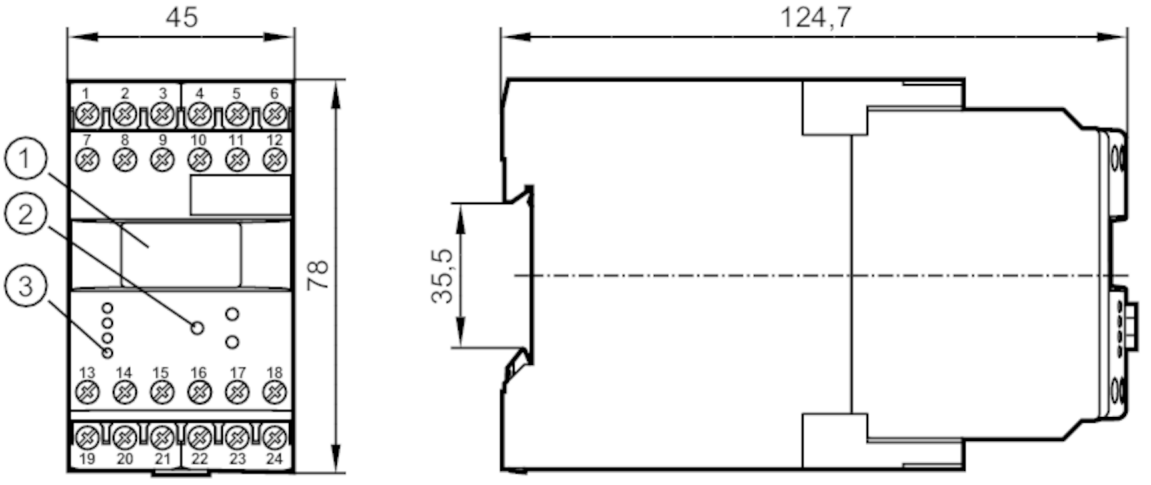
DS2503

Evaluation unit for slip and synchronous monitoring

MONITOR/FS-1 /110-240VAC/DC



1 OLED display
2 Programming buttons
3 LEDs

Product characteristics		
Housing		housing for DIN rail mounting
Dimensions	[mm]	78 x 45 x 124.7
Application		
Application		pulse evaluation system with microprocessor for slip and synchronous monitoring as well as frequency; rotational speed and speed
Electrical data		
Nominal voltage AC	[V]	110...240
Nominal voltage DC	[V]	27
Nominal voltage tolerance	[%]	< 10
Nominal voltage tolerance 2	[%]	20...10
Nominal frequency AC	[Hz]	50...60
Power consumption	[W]	3
Auxiliary energy for sensors DC	[V]	19.6...27.7; (SELV, ≤ 150 mA)
Inputs / outputs		
Number of inputs and outputs		Number of relay outputs: 2
Outputs		
Number of relay outputs		2
Contact rating		6 A (250 V AC); B300, R300
Measuring/setting range		
Setting range Hz	[Hz]	0.1...1000
Setting range	[Imp/min]	1...60000
Operating conditions		
Ambient temperature	[°C]	-40...60
Storage temperature	[°C]	-40...85

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Max. relative air humidity	[%]	80; (40 °C: 50 %)
Protection		IP 50
Protection rating terminals		IP 20

Tests / approvals

EMC	EN 61010	2011
	EMV 89/336/EWG	
	EN 61000-6-2	2005
	EN 61000-6-4	2007

Mechanical data

Weight	[g]	382.5
Housing		housing for DIN rail mounting
Dimensions	[mm]	78 x 45 x 124.7
Material		plastics

Displays / operating elements

Display		OLED display, 128 x 64 pixels luminous
	Switching status	LED, green
	input signal	LED, green

Remarks

Remarks	overvoltage category II; pollution degree 2

Electrical connection

dual-chamber terminals: 2 x ...2.5 mm²; AWG 14

1	DC Supply voltage (L-)
2	DC Supply voltage (L+)
3	Supply transistor outputs (L+)
4	sensor signal 1 pnp
5	DC Sensor supply (L+)
6	DC Sensor supply (L-)
7	AC Supply voltage (L)
8	AC Supply voltage (N)
9	not used
10	sensor signal 1 npn
11	sensor signal 2 pnp
12	sensor signal 2 npn
13	Relay 1 common
14	Relay 1 normally open
15	Relay 1 normally closed
16	transistor output 1 pnp
17	Reset 1 pnp
18	Reset 2 pnp
19	Relay 2 common
20	Relay 2 normally open
21	Relay 2 normally closed
22	not used
23	not used
24	transistor output 2 pnp