# **DS2603**

## Evaluation unit for slip and synchronous monitoring

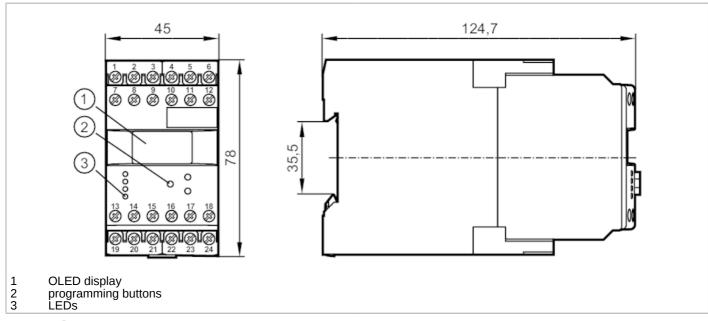




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### Alternative articles: DS2503

When selecting an alternative article and accessories please note that technical data may differ!





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 and rotational speed		
Electrical data				
Nominal voltage AC	[V]	110240		
Nominal voltage DC	[V]	27		
Nominal voltage tolerance	[%]	< 10		
Nominal voltage tolerance 2	[%]	2010		
Nominal frequency AC	[Hz]	5060		
Power consumption	[W]	3		
Auxiliary energy for sensors DC	[V]	8.2		
Inputs / outputs				
Number of inputs and outputs	6	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]	0.11000		

# **DS2603**

# Evaluation unit for slip and synchronous monitoring



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

	[Imp/min]		160000			
Operating condition	ons					
Ambient temperatu	re [°C]		-4060			
Storage temperatur	re [°C]	-4085				
Max. relative air hu		80; (40 °C: 50 %)				
Protection		IP 50				
Protection rating te	rminals	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]		386			
Housing			housing for DIN rail m	ounting		
Dimensions	[mm]	78 x 45 x 124.7				
Materials			plastics			
Displays / operation	ng elements					
Display			OLED (	display, 128 x 64 pixels luminous		
		switching status	LED, g	reen		
Remarks						
Remarks		The unit con	plies with overvoltage cate	gory II; pollution degree 2		
	ion	The unit con	plies with overvoltage cate	gory II; pollution degree 2		
Remarks			plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin	nals: 2 x2.5 mm	n²; AWG 14 e (L-)	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2	nals: 2 x2.5 mm DC supply voltage DC supply voltage	n²; AWG 14 e (L-) e (L+)	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2 3	nals: 2 x2.5 mm DC supply voltage DC supply voltage current supply tra	n²; AWG 14 e (L-)	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2 3 4	nals: 2 x2.5 mm DC supply voltage DC supply voltage	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+)	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2 3 4 5 6	nals: 2 x2.5 mm DC supply voltage DC supply voltage current supply tra error output 1 8.2 V DC Sensor 8.2 V DC Sensor	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+)	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2 3 4 5 6 7	nals: 2 x2.5 mm  DC supply voltage  DC supply voltage  current supply tra  error output 1  8.2 V DC Sensor  8.2 V DC Sensor  AC supply voltage	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (L)	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2 3 4 5 6 7	nals: 2 x2.5 mm  DC supply voltage  DC supply voltage  current supply tra  error output 1  8.2 V DC Sensor  8.2 V DC Sensor  AC supply voltage  AC supply voltage	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (L)	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2 3 4 5 6 7 8 9	nals: 2 x2.5 mm  DC supply voltage  DC supply voltage  current supply tra  error output 1  8.2 V DC Sensor  8.2 V DC Sensor  AC supply voltage  AC supply voltage  not used	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (L)	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2 3 4 5 6 7 8 9 10	nals: 2 x2.5 mm  DC supply voltage  DC supply voltage  current supply tra  error output 1  8.2 V DC Sensor  8.2 V DC Sensor  AC supply voltage  AC supply voltage	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (L) e (N)	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin  1 2 3 4 5 6 7 8 9 10 11 12	nals: 2 x2.5 mm  DC supply voltage DC supply voltage current supply tra error output 1  8.2 V DC Sensor 8.2 V DC Sensor AC supply voltage AC supply voltage not used error output 2  8.2 V DC Sensor  8.2 V DC Sensor  8.2 V DC Sensor	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (L) e (N) supply 2 (L-)	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2 3 4 5 6 7 8 9 10 11 12 13	nals: 2 x2.5 mm  DC supply voltage DC supply voltage current supply tra error output 1  8.2 V DC Sensor 8.2 V DC Sensor AC supply voltage AC supply voltage not used error output 2  8.2 V DC Sensor	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (L) e (N) supply 2 (L-) supply 2 (L+)	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2 3 4 5 6 7 8 9 10 11 12 13 14	nals: 2 x2.5 mm  DC supply voltage DC supply voltage current supply tra error output 1  8.2 V DC Sensor 8.2 V DC Sensor AC supply voltage AC supply voltage not used error output 2  8.2 V DC Sensor 8.2 V DC Sensor 8.2 V DC Sensor 8.2 V DC Sensor relay 1 common relay 1 normally o	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (L) e (N) supply 2 (L-) supply 2 (L+)	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	nals: 2 x2.5 mm  DC supply voltage DC supply voltage current supply tra error output 1  8.2 V DC Sensor 8.2 V DC Sensor AC supply voltage AC supply voltage not used error output 2  8.2 V DC Sensor	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (L) e (N) supply 2 (L-) supply 2 (L+) open	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	DC supply voltage DC supply voltage current supply tra error output 1 8.2 V DC Sensor 8.2 V DC Sensor AC supply voltage AC supply voltage not used error output 2 8.2 V DC Sensor 8.2 V DC Sensor elay 1 common relay 1 normally or relay 1 normally or transistor output 1 reset 1 pnp	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (L) e (N) supply 2 (L-) supply 2 (L+) open	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	DC supply voltage DC supply voltage Current supply tra error output 1 8.2 V DC Sensor 8.2 V DC Sensor AC supply voltage AC supply voltage not used error output 2 8.2 V DC Sensor 8.2 V DC Sensor relay 1 common relay 1 normally or relay 1 normally of transistor output 1 reset 1 pnp reset 2 pnp	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (L) e (N) supply 2 (L-) supply 2 (L+) open	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	DC supply voltage DC supply voltage Current supply tra error output 1 8.2 V DC Sensor AC supply voltage AC supply voltage AC supply voltage not used error output 2 8.2 V DC Sensor 8.2 V DC Sensor relay 1 common relay 1 normally or relay 1 normally or reset 1 pnp reset 2 pnp relay 2 common	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (L) e (N) supply 2 (L-) supply 2 (L+) open closed L pnp	plies with overvoltage cate	gory II; pollution degree 2		
Remarks  Electrical connect dual-chamber termin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	nals: 2 x2.5 mm  DC supply voltage  DC supply voltage  current supply tra  error output 1  8.2 V DC Sensor  8.2 V DC Sensor  AC supply voltage  To supply voltage  AC supply voltage  AC supply voltage  AC supply voltage  To supply voltage	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (L) e (N) supply 2 (L-) supply 2 (L+) open closed L pnp	plies with overvoltage cate	gory II; pollution degree 2		
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Remarks  Electrical connect dual-chamber termin 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	nals: 2 x2.5 mm  DC supply voltage  DC supply voltage  current supply tra  error output 1  8.2 V DC Sensor  8.2 V DC Sensor  AC supply voltage  AC supply voltage  AC supply voltage  not used  error output 2  8.2 V DC Sensor  8.2 V DC Sensor  8.2 V DC Sensor  relay 1 common  relay 1 normally of  relay 1 normally of  transistor output 1  reset 1 pnp  reset 2 pnp  relay 2 common  relay 2 normally of  relay 2 normally of  relay 2 normally of  relay 2 normally of	n²; AWG 14 e (L-) e (L+) nsistor outputs (L+) supply 1 (L-) supply 1 (L+) e (N) supply 2 (L-) supply 2 (L+) open closed l pnp	plies with overvoltage cate	gory II; pollution degree 2		