

OFFICIAL MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

6ES7134-0HF01-0XB0

Siemens official documentation for the exact article number.

Source: 6ES7134-0HF01-0XB0 6ES7 134-0HF01-0XB0.pdf

Selected official Siemens pages follow this cover.

PROFIBUS-DP

Distributed I/O



ET 200B (continued)

Technical specifications (continued)				
Electronics blocks (mixed module) (continued)		6ES7 133-0BL00-0XB0		
Number of inputs		16		
Isolation		No		
Output voltage U _E		24 V DC		
• Rated value		-30 to + 5 V		
• For signal "0"	max.	+ 13 to 30 V		
• For signal "1"	max.	4 mA		
Input current with Signal "1"		3 ms		
Delay of inputs		100 m		
Cable length		12 Mbit/s		
Data transfer rate				
Number of outputs		16		
Isolation		Yes		
Output voltage U _A rated value		24 V DC		
Output current		0.5 A; in groups of 8		
		8 x 0.5 A per group		
• Total current per group	max.	2 A		
Short-circuit protection	max.	Electronic		
Switching Frequency		100 Hz		
• With resistive load	max.	0.5 Hz		
• With inductive load	max.	8 Hz		
• With lamp load	max.	100M		
cable length	max.	TB2/DC, TB2-4/DC,		
Terminal block		TB4/DC, TB4-4/DC		
Electronics blocks (relay modules)		6ES7 132-0GF00-0XB0	6ES7 132-0HH00-0XB0 ¹⁾	
Number of outputs		8 (relays)	16 (relays; 4 high-current and 12 low-current)	
Isolation		Yes; in groups of 1	Yes; in groups of 1	
Output voltage U _A		24 V to 60 V DC	120 V AC	
• Rated value			61 to 150 V DC	
Output current		2A with 24 V DC	4 A (2 connections)	
			2 A (12 connections)	
Short-circuit protection		No	No	
Data transfer rate		12 Mbit/s	12 Mbit/s	
Cable length		100 m	600 m	
Switching frequency				
• Resistive	max.	10 Hz	10 Hz	
• Inductive	max.	2 Hz	2 Hz	
Terminal block		TB1/DC, TB1-4/DC, TB3/DC, TB3-4/DC	TB6/AC	
Electronics blocks (analog inputs/outputs)		6ES7 134-0KH01-0XB0	6ES7 134-0HF01-0XB0	6ES7 134-0HF01-0XB0
Number of inputs		8 (voltage/thermocouples or 4 (Pt 100, Ni 100))	4	—
Input ranges		±80 mV; ±250 mV; ±500 mV; ±1000 mV; Ni 100, Pt 100 thermocouples type J, K, L, E, N, T, U, R meas.	±1.25 V, ±2.5 V; ±5 V, ±10 V; 0 (4) to 20 mA	—
Isolation		No	No	—
Input resistance		10 MΩ	100 kΩ	—
• Voltage measurement	min.	—	125 Ω	—
• Current measurement		11 bit am't. + sign	11 bit am't. + sign	—
Resolution		12 bit two's compl.	12 bit two's compl.	—
Measuring and conversion principle		Integrating voltage/time conversion	Successive approximation	—
Encoding time		2.5/16.7/20/100 ms parameterizable	Max. 0.1 ms/channel	—
Overrange		17.5%	—	—

¹⁾ 230 V AC (61 V to 150 V DC) available soon



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ET 200B (continued)

Technical specifications (continued)				
Electronics blocks (digital inputs) Analog inputs/output (continued)		6ES7 134-0KH01-0XB0	6ES7 134-0HF01-0XB0	6ES7 135-0HF01-0XB0
Data transfer rate	max.	12 Mbit/s	12 Mbit/s	12 Mbit/s
Cable length	max.	100 m	100 m	100 m
Number of outputs		—	—	4
Output ranges		—	—	±10 V; +10V; ±20 mA; 0 (40) to 20 mA
Isolation		—	—	No
Load resistance	max.	—	—	300Ω
Resolution		—	—	11 bit two's compl.
Conversion time		—	—	1 ms/channel
Overrange		—	—	17.5%
Short-circuit protection		—	—	Electronic
Type of connection		2 wire and 4 wire systems	2 wire system	2 wire and 4 wire systems
Terminal block		TB8	TB8	TB8
Terminal block and Electronics block		TB1/DC, TB1-4/DC, TB3/DC, TB3-4/DC	TB2/DC, TB2-4/DC, TB4/DC, TB4-4/DC	TB6/AC TB8
Supply voltage		24 V DC	24 V DC	120/230 V AC
• Rated value		18.5 to 30 V	18.5 to 30 V	85 to 264 V
• Permissible range (including ripple)				
Connection method		TB1: screw-type terminals TB3: spring-type terminals	TB2: screw-type terminals TB4: spring-type terminals	Screw-type terminals Spring-type terminals
Isolation between electronics block and PROFIBUS-DP		Yes	Yes	Yes
Current consumption with 24 V DC				
• Internal (logic) approx.		100 to 170 mA	100 to 200 mA	60 to 210 mA
Ambient temperature		0 to 60° C/ 32°F to 140°F	0 to 60° C/ 32°F to 140°F	0 to 60° C/ 32°F to 140°F
Degree of protection		IP 20	IP 20	IP 20
Dimensions (WxHxD) in mm/in		160 x 130 x 59/ 6.24 x 5.07 x 2.3	235 x 130 x 50/ 9.1 x 5.07 x 2.3	160 x 130 x 59/ 6.24 x 5.07 x 2.3
Weight (complete) approx.		0.6 kg	0.8 kg	0.8 kg

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Technical specifications general			
Transmission rate	max.	12 Mbit/s	Degree of protection
Suitable electronics blocks		* Digital inputs • Digital outputs • Digital inputs/outputs • Analog inputs • Analog outputs	Ambient temperature on vertical wall (preferred mounting position) • With horizontal mounting • With other mounting
Connections		Screw-type and spring-loaded connections, fixed wiring: 3-wire and 4-wire connections.	Relative humidity
Galvanic isolation		Yes, between PROFIBUS-DP and internal electronics	Atmospheric pressure
Supply voltage		24 V DC 120/230 V AC	Mechanical stress • Vibrations • Shock
			IP 20 0 to 60°C/32°F to 140°F 0 to 40°C/32°F to 104°F 15 to 95% (RH severity level 2 in accordance with IEC 1131-2) 795 to 1080 hPa IEC 68, Part 2-6 10-57 Hz (const. amplitude 0.075 mm) 57-150 Hz (constant acceleration 1 g) IEC 68, Part 2-27 half-sine, 15 g, 11 ms

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ET 200B (continued)

Ordering data			
Terminal block TB1/DC with 3 tier screw-type terminals ¹⁾ for digital 24 V DC electronics blocks with a width of 160 mm (e.g. 16DI) TB1-4/DC with 4-tier screw-type terminals ²⁾ for digital 24 V DC electronics blocks with a width of 160 mm (e.g. 16DI) TB2/DC with 3-tier screw-type terminals ¹⁾ for digital 24 V DC electronics blocks with a width of 235 mm (e.g. 32DI) TB2-4/DC with 4-tier screw-type terminals ²⁾ for digital 24 V DC electronics blocks with a width of 235 mm (e.g. 32DI) TB3/DC with 3-tier spring-type terminals ¹⁾ for digital 24 V DC electronics blocks with a width of 160 mm (e.g. 16DI) TB3-4/DC with 4-tier spring-type terminals ¹⁾ for digital 24 V DC electronics blocks with a width of 160 mm (e.g. 16DI) TB4DC with 3-tier spring-type terminals ¹⁾ for digital 24 V DC electronics blocks with a width of 235 mm (e.g. 32DI) TB4-4/DC with 4-tier spring-type terminals ¹⁾ for digital 24 V DC electronics blocks with a width of 235 mm (e.g. 32DI) TB6/AC with 3-tier screw-type terminals ¹⁾ for digital 24 V DC electronics blocks with a width of 235 mm TB8 with spring-type terminals ¹⁾ for electronics blocks with analog inputs/outputs (analog terminal block) Bus connection plug for PROFIBUS Max. data trans.rate 12 Mbit/s, degree of protection IP 20; with vertical outgoing cable • without PG port • with PG port Mini fuse for terminal blocks (10 of each) • TR5-T; 1.6 A/125 V for TB1/DC, TB1-4/DC, TB#/DC, TB8 • TR5-T; 2.5 A/250 V for TB2/DC, TB2-4/DC, TB4/DC • TR5-T; 1.0 A/250 V for TB6/AC Shield connection element Auxiliary part for terminal block TB8; allows large-area shield connection with analog signals Terminal elements for cable connection to the shield connection element (2 of each); Shield diameter: • 2 x 2 to 6mm • 1 x 3 to 8 mm • 1 x 4 to 13 mm	6ES7 193-0CA10-0XA0 6ES7 193-0CA20-0XA0 6ES7 193-0CB10-0XA0 6ES7 193-0CB20-0XA0 6ES7 193-0CA30-0XA0 6ES7 193-0CA4X0-0XA0 6ES7 193-0CB30-0XA0 6ES7 193-0CB40-0XA0 6ES7 193-0CC10-0XA0 6ES7 193-0CD40-0XA0 6ES7 972-0BA10-0XA0 6ES7 972-0BB10-0XA0 6ES7 193-0DA00-0XA0 6ES7 193-0DB00-0XA0 6ES7 193-0DC00-0XA0 6ES7 193-0CD40-7XA0 6ES7 390-5AB00-0AA0 6ES7 390-5BA00-0AA0 6ES7 390-5CA00-0AA0	Electronics block with digital inp./outp. for 24 V DC 16DI: 16 inputs, width 160 mm 32DI: 32 inputs, width 235 mm • Input delay 3 ms • Input delay 0.2 ms 32DO: 32 outputs, width 235 mm 16DO: with 16 outputs • Output current 0.5 A/2A, width 160 mm • Output current 2A, width 235 mm 24DI/8DO: with 24 inputs and 8 outputs, width 235 mm • Input delay 3 ms • Input delay 0.2 ms 8DI/8DO: with 8 input and 8 outputs, 160 mm width 8DI/8DO: with 8 inputs and 8 outputs as well as integrated hardware disable of the outputs, width 170 mm 16DI/16DO: with 16 inputs and 16 outputs, width 235mm 8RO: with 8 relay outputs 24 to 60 V DC, width 160 mm Electronics Block with dig. inp./outp. for 120/230 V AC, width 235 mm 16DI: with 16 inputs 16DO: with 16 outputs 16RO: with 16 relay outputs 8DI/8RO: with 8 inputs and 8 relay outputs Electronics block with analog inputs/outputs, width 160 mm 4I/8AI: with 4/8 inputs ±80 mV; ±250 mV; ±500 mV; ±1000 mV; Pt 100, Ni100, thermocouples type J, K, L, E, N, T, V 4AI: with 4 inputs; ±1.25 V; ±2.5 V; ±5 V; ±10 V; 0 (4) to 20 mA 4AO: with 4 outputs ±10 V; +10 V; ±20 mA; 0 (4) to 20 mA Labeling strips (DIN A4) For electronics blocks 8DI/8DO, 16 DI and 16 DO (10 of each) For electronics blocks 32 DI, 24 DI/8DO, 32 DO and 16DI/16DO (7 of each) For electr. blocks 8 RO (10 of each) For electr. blocks 16 DO/2A (7 of each) For electr. blocks 120/230 V AC (7 of each) For analog electr. blocks (10 of each) Manual for the ET 200B I/O distributed station German English French Spanish Italian	6ES7 131-0BH00-0XB0 6ES7 131-0BL00-0XB0 6ES7 131-0BL10-0XB0 6ES7 132-0BL01-0XB0 6ES7 132-0BH01-0XB0 6ES7 132-0BH11-0XB0 6ES7 133-0BN01-0XB0 6ES7 133-0BN11-0XB0 6ES7 133-0BH01-0XB0 6ES7 133-0BH10-0XB0 6ES7 133-0BL00-0XB0 6ES7 132-0GF00-0XB0 6ES7 131-0HF00-0XB0 6ES7 132-0HF00-0XB0 6ES7 132-0HH00-0XB0 6ES7 133-0HH00-0XB0 6ES7 134-0KH01-0XB0 6ES7 134-0HF01-0XB0 6ES7 135-0HF01-0XB0 6ES7 193-0BB00-0XA0 6ES7 193-0BD00-0XA0 6ES7 193-0BA00-0XA0 6ES7 193-0BC00-0XA0 6ES7 193-0BF00-0XA0 6ES7 193-0BE00-0XA0 6ES5 998-4ET11 6ES5 998-4ET21 6ES5 998-4ET31 6ES5 998-4ET41 6ES5 998-4ET51