SIEMENS

Data sheet

6ES7143-5AH00-0BA0

SIMATIC ET 200AL, DIQ 16x24 V DC/0.5 A, 8xM12, Degree of protection IP67



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1

Rated value (DC) permissible range, lower limit (DC) Reverse potarity protection Reverse potarity protection Parmissible range, upper limit (DC) Reverse potarity protection Reverse potarity protection Parmissible range, upper limit (DC) Parmissible range, upper limit (DC) Parmissible range, upper limit (DC) Permissible range, upper limit (DC) Permissible range, upper limit (DC) Reverse potarity protection Reverse potarity protection Passible range, upper limit (DC) Reverse potarity protection Reverse potarity po		
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Reverse polarity protection Ves; Against destruction; encoder power supply outputs applied with reversed polarity, loads pick up Rated value (DC) permissible range, lower limit (DC) Reverse polarity protection Permissible range, upper limit (DC) Reverse polarity protection Permissible range, upper limit (DC) Reverse polarity protection	 permissible range, lower limit (DC) 	20.4 V
with reversed polarity, loads pick up 1 Rated value (DC) 2 Permissible range, lower limit (DC) 2 Permissible range, upper limit (DC) 2 Reverse polarity protection 2 Reverse polarity protection 3 Part Against destruction; encoder power supply outputs applied with reversed polarity, loads pick up 1 Input current Current consumption (rated value) 4 A; Maximum value 1 A; Total current of all encoders, max. 0.7 A per load voltage 2 A v encoder supply 3 Short-circuit protection 4 Ves; Per load voltage, electronic 5 Output current, max. 1 A; Total current of all encoders, max. 0.7 A per load voltage 1 A W 1 A; Total current of all encoders, max. 0.7 A per load voltage 1 A W 1 A; Total current of all encoders, max. 0.7 A per load voltage 1 A W 1 A; Total current of all encoders, max. 0.7 A per load voltage 1 A W 1 A; Total current of all encoders, max. 0.7 A per load voltage 1 A W 1 A; Total current of all encoders, max. 0.7 A per load voltage 1 A W 1 A; Parameterizable as DIQ 1 Yes 1 B; Parameterizable as DIQ 1 Yes 1 B; Parameterizable as DIQ 2 A; Parameterizable as DIQ 2 A; Parameterizable as DIQ 3 B; Parameterizable as DIQ 4 A; Parameterizable as DIQ 5 C; Cuunter 1 A A; Parameterizable as DIQ 4 B; Parameterizable as DIQ 5 C; Cuunter 1 A A; Parameterizable as DIQ 5 C; Cuunter 1 A A; Digital input 1 A; Parameterizable as DIQ 1 A; Parameterizable as DIQ 1 A; Parameterizable as DIQ 2 A; Parameterizable as DIQ 3 Digital input functions, parameterizable 4 A; Baximum value 5 C; Cuunter 1 A A; Total current of all encoders, max. 0.7 A per load voltage 5 C; Cuunter 1 A B; Current 2 A W 4 A; Maximum value 1 A; Maximum value	 permissible range, upper limit (DC) 	28.8 V
Rated value (DC) permissible range, lower limit (DC) permissible range, upper limit (DC) Reverse polarity protection protection reversed polarity, loads pick up Power load voltage 1L+ (unswitched voltage)	Reverse polarity protection	
• permissible range, lower limit (DC) • permissible range, upper limit (DC) • Reverse polarity protection • Reverse polarity protection • Reverse polarity protection • Reverse polarity protection • Possa, Against destruction; encoder power supply outputs applied with reversed polarity, loads pick up Input current	Load voltage 2L+	
Permissible range, upper limit (DC) Reverse polarity protection Yes; Against destruction; encoder power supply outputs applied with reversed polarity, loads pick up Input current	Rated value (DC)	24 V
Reverse polarity protection Reverse polarity protection Yes; Against destruction; encoder power supply outputs applied with reversed polarity, loads pick up Input current Current consumption (rated value) from load voltage 1L+ (unswitched voltage) from load voltage 2L+, max. 4 A; Maximum value Encoder supply Short-circuit protection Output current, max. Yes; Per load voltage, electronic 1.4 A; Total current of all encoders, max. 0.7 A per load voltage Power loss Power loss Power loss, typ. 4 W Digital inputs Number of digital inputs Input characteristic curve in accordance with IEC distal, type 3 Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. Digital input functions, parameterizable Freely usable digital input Counter — Number, max. — Counting frequency, max. — Counting frequency, max. — Counting direction up/down Input voltage Rated value (DC) For signal "0" 4 A; Maximum value 75 mA; without load 4 A; Maximum value 8 8 8 8 8 8 8 8 8 8 8 8 9 8 8	permissible range, lower limit (DC)	20.4 V
Input current Current consumption (rated value) From load voltage 11+ (unswitched voltage) From load voltage 21+, max. Final Parameterizable as DIQ Number of outputs 24 V encoder supply • Short-circuit protection • Output current, max. Power loss Power loss, typ. Digital inputs Number of digital inputs Input characteristic curve in accordance with IEC of 1313, type 3 Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. Digital input functions, parameterizable • Freely usable digital input • Counter — Number, max. — Counting frequency, max. — Counting direction up/down Input voltage • Rated value (DC) • for signal "0" • for signal "1" 4 A; Maximum value 75 mA; without load 76 mA; darkimum value 77 mA; max. 78 mA; max. 79 mA; max. 70 mA; max. 70 mA; max. 71 mA; max. 71 mA; max. 72 mA; max. 73 mA; max. 74 mA; max. 74 mA; max. 75 mA; without load 76 mA; max. 77 mA; max. 78 mA; max. 78 mA; max. 78 mA; max. 79 mA; max. 70 mA; max. 70 mA; max. 71 mA; max. 71 mA; max. 71 mA; max. 71 mA; max. 72 mA; max. 73 mA; max. 74 mA; max. 75 mA; max. 75 mA; max. 76 mA; max. 77 mA; max. 77 mA; max. 78 mA; max. 78 mA; max.	permissible range, upper limit (DC)	28.8 V
Current consumption (rated value) 75 mA; without load from load voltage 1L+ (unswitched voltage) 4 A; Maximum value from load voltage 2L+, max. 4 A; Maximum value Encoder supply Number of outputs 8 24 V encoder supply • Short-circuit protection Yes; Per load voltage, electronic 1.4 A; Total current of all encoders, max. 0.7 A per load voltage Power loss Power loss, typ. 4 W Digital inputs Number of digital inputs 16; Parameterizable as DIQ Input characteristic curve in accordance with IEC 61131, type 3 Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. 16 Digital input functions, parameterizable • Freely usable digital input Yes • Counter Yes — Number, max. 4 — Counting frequency, max. 2 kHz — Counting frequency, max. 2 kHz — Counting direction up/down Yes Input voltage • Rated value (DC) 24 V • for signal "0" -3 to +5V + for signal "1" +11 to +30V	Reverse polarity protection	
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From load voltage 2L+, max. 4 A; Maximum value Encoder supply Number of outputs 8 24 V encoder supply • Short-circuit protection • Output current, max. 1.4 A; Total current of all encoders, max. 0.7 A per load voltage Power loss Power loss Power loss, typ. 4 W Digital inputs Number of digital inputs Input characteristic curve in accordance with IEC 61131, type 3 Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. Digital input functions, parameterizable • Freely usable digital input • Counter — Number, max. — Counting frequency, max. — Counting frequency, max. — Counting direction up/down Yes Input voltage • Rated value (DC) • for signal "0" • for signal "1" 4 4 4 4 4 7 4 7 5 8 6 9 6 7 6 9 6 7 6 9 6 7 6 9 6 7 6 7	Current consumption (rated value)	75 mA; without load
Number of outputs 8	from load voltage 1L+ (unswitched voltage)	4 A; Maximum value
Number of outputs 24 V encoder supply Short-circuit protection Output current, max. Power loss Power loss Power loss, typ. 4 W Digital inputs Number of digital inputs Input characteristic curve in accordance with IEC 61131, type 3 Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. Digital input functions, parameterizable Freely usable digital input Counter — Number, max. — Counting frequency, max. — Counting width — Counting direction up/down Input voltage Rated value (DC) for signal "1" Yes; Per load voltage, electronic 1.4 A; Total current of all encoders, max. 0.7 A per load voltage Yes; Per load voltage, electronic 1.4 A; Total current of all encoders, max. 0.7 A per load voltage 16; Parameterizable as DIQ Yes 16; Parameterizable as DIQ Yes 16 Yes 4 Yes 4 4 4 4 4 4 4 4 4 4 4 4 4	from load voltage 2L+, max.	4 A; Maximum value
Number of outputs 24 V encoder supply Short-circuit protection Output current, max. Power loss Power loss Power loss, typ. 4 W Digital inputs Number of digital inputs Input characteristic curve in accordance with IEC 61131, type 3 Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. Digital input functions, parameterizable Freely usable digital input Counter — Number, max. — Counting frequency, max. — Counting width — Counting direction up/down Input voltage Rated value (DC) for signal "1" Yes; Per load voltage, electronic 1.4 A; Total current of all encoders, max. 0.7 A per load voltage Yes; Per load voltage, electronic 1.4 A; Total current of all encoders, max. 0.7 A per load voltage 16; Parameterizable as DIQ Yes 16; Parameterizable as DIQ Yes 16 Yes 4 Yes 4 4 4 4 4 4 4 4 4 4 4 4 4	Encoder supply	
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Output current, max. 1.4 A; Total current of all encoders, max. 0.7 A per load voltage Power loss Power loss, typ. 4 W Digital inputs Number of digital inputs Input characteristic curve in accordance with IEC 61131, type 3 Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. Digital input functions, parameterizable • Freely usable digital input • Counter — Number, max. — Counting frequency, max. — Counting width — Counting direction up/down Input voltage • Rated value (DC) • for signal "0" • for signal "1" 16; Parameterizable as DIQ Yes Yes Yes 4 4 2 kHz 32 bit; Incl. sign Yes Input voltage • Rated value (DC) • for signal "0" • 3 to +5V + 11 to +30V	24 V encoder supply	
Power loss Power loss, typ. Digital inputs Number of digital inputs Input characteristic curve in accordance with IEC 61131, type 3 Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. Digital input functions, parameterizable • Freely usable digital input • Counter — Number, max. — Counting frequency, max. — Counting width — Counting width — Counting direction up/down Input voltage • Rated value (DC) • for signal "0" • for signal "1" 4 W Yes 16; Parameterizable as DIQ Yes 16 Yes 4 2 kHz 3 bit; Incl. sign Yes 1 nput voltage • Rated value (DC) • for signal "0" • 3 to +5V • for signal "1" + 11 to +30V	Short-circuit protection	Yes; Per load voltage, electronic
Power loss, typ. Digital inputs Number of digital inputs Input characteristic curve in accordance with IEC 61131, type 3 Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. Digital input functions, parameterizable • Freely usable digital input • Counter — Number, max. — Counting frequency, max. — Counting width — Counting direction up/down Input voltage • Rated value (DC) • for signal "0" • for signal "1" 16; Parameterizable as DIQ Yes 16 Yes 4 2 kHz 32 bit; Incl. sign Yes 1nput voltage	 Output current, max. 	1.4 A; Total current of all encoders, max. 0.7 A per load voltage
Power loss, typ. Digital inputs Number of digital inputs Input characteristic curve in accordance with IEC 61131, type 3 Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. Digital input functions, parameterizable • Freely usable digital input • Counter — Number, max. — Counting frequency, max. — Counting width — Counting direction up/down Input voltage • Rated value (DC) • for signal "0" • for signal "1" 16; Parameterizable as DIQ Yes 16 Yes 4 2 kHz 32 bit; Incl. sign Yes 1nput voltage	Power loss	
Digital inputs Number of digital inputs Input characteristic curve in accordance with IEC 61131, type 3 Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. Digital input functions, parameterizable • Freely usable digital input • Counter — Number, max. — Counting frequency, max. — Counting width — Counting width — Counting direction up/down Input voltage • Rated value (DC) • for signal "0" • for signal "0" • for signal "1" 16; Parameterizable as DIQ Yes 16 24 V - 3 to +5V • for signal "1"		4 W
Number of digital inputs Input characteristic curve in accordance with IEC 61131, type 3 Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. Digital input functions, parameterizable • Freely usable digital input • Counter — Number, max. — Counting frequency, max. — Counting width — Counting direction up/down Input voltage • Rated value (DC) • for signal "0" • for signal "1" 16 Pyes 16 Yes 4 4 4 2 kHz 32 bit; Incl. sign Yes	D. W. I.	
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Number of simultaneously controllable inputs all mounting positions — up to 55 °C, max. Digital input functions, parameterizable • Freely usable digital input • Counter — Number, max. — Counting frequency, max. — Counting width — Counting width — Counting direction up/down Input voltage • Rated value (DC) • for signal "0" • for signal "1" 16 Pes 4 2 kHz 32 bit; Incl. sign Yes Input voltage		
all mounting positions — up to 55 °C, max. Digital input functions, parameterizable • Freely usable digital input • Counter — Number, max. — Counting frequency, max. — Counting width — Counting width — Counting direction up/down Input voltage • Rated value (DC) • for signal "0" • for signal "1" 16 Yes 4 4 4 2 kHz 32 bit; Incl. sign Yes Incl. sign Yes -3 to +5V +11 to +30V	61131, type 3	165
— up to 55 °C, max. Digital input functions, parameterizable • Freely usable digital input • Counter — Number, max. — Counting frequency, max. — Counting width — Counting direction up/down Input voltage • Rated value (DC) • for signal "0" • for signal "1" 16 Yes 16 Yes Yes 4 4 2 kHz 32 bit; Incl. sign Yes Inut. sign Yes 17 18 24 4 4 4 4 4 4 4 4 4 4 4 4		
Digital input functions, parameterizable • Freely usable digital input • Counter — Number, max. — Counting frequency, max. — Counting width — Counting direction up/down Input voltage • Rated value (DC) • for signal "0" • for signal "1" Yes Yes 2 kHz 32 bit; Incl. sign Yes 24 V -3 to +5V +11 to +30V		
 Freely usable digital input Counter Number, max. Counting frequency, max. Counting width Counting direction up/down Rated value (DC) for signal "0" for signal "1" Yes Yes Yes 1 The property of the prope	<u> </u>	16
 Counter Number, max. Counting frequency, max. Counting width Counting direction up/down Pated value (DC) for signal "0" for signal "1" Yes Yes Yes 24 V -3 to +5V +11 to +30V		
 Number, max. Counting frequency, max. Counting width Counting direction up/down Pated value (DC) for signal "0" for signal "1" 4 kHz 2 kHz 32 bit; Incl. sign Yes Yes Input voltage 24 V -3 to +5V +11 to +30V 	 Freely usable digital input 	
- Counting frequency, max. - Counting width - Counting direction up/down Yes Input voltage • Rated value (DC) • for signal "0" • for signal "1" 2 kHz 32 bit; Incl. sign Yes 24 V -3 to +5V +11 to +30V	Counter	
- Counting width - Counting direction up/down Yes Input voltage Rated value (DC) for signal "0" for signal "1" 32 bit; Incl. sign Yes 24 V -3 to +5V +11 to +30V	— Number, max.	
— Counting direction up/down Yes Input voltage • Rated value (DC) • for signal "0" • for signal "1" Yes 24 V -3 to +5V +11 to +30V	Counting frequency may	2 トロ→
Input voltage • Rated value (DC) • for signal "0" • for signal "1" 24 V -3 to +5V +11 to +30V	— Counting frequency, max.	Z NIZ
 Rated value (DC) for signal "0" for signal "1" 24 V -3 to +5V +11 to +30V 		
• for signal "0" -3 to +5V • for signal "1" +11 to +30V	— Counting width	32 bit; Incl. sign
• for signal "1" +11 to +30V	Counting width Counting direction up/down	32 bit; Incl. sign Yes
- Sagaran	Counting width Counting direction up/down Input voltage	32 bit; Incl. sign Yes
Input current	 Counting width Counting direction up/down Input voltage Rated value (DC) 	32 bit; Incl. sign Yes 24 V
	 Counting width Counting direction up/down Input voltage Rated value (DC) for signal "0" 	32 bit; Incl. sign Yes 24 V -3 to +5V

● for signal "1", typ.	3 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes
— at "0" to "1", min.	0.05 ms; 1.6 ms for channels 8 through 15
— at "0" to "1", max.	20 ms
— at "1" to "0", min.	0.05 ms; 1.6 ms for channels 8 through 15
— at "1" to "0", max.	20 ms
for technological functions	
— parameterizable	Yes
Cable length	
• unshielded, max.	30 m
Digital outputs	
Number of digital outputs	16; Parameterizable as DIQ
• in groups of	8; 2 load groups for 8 outputs each
Short-circuit protection	Yes; per channel, electronic
• Response threshold, typ.	0.7 A
Limitation of inductive shutdown voltage to	L+ (-53 V)
Digital output functions, parameterizable	
Switching tripped by comparison values	Yes
 Freely usable digital output 	Yes
Switching capacity of the outputs	
• on lamp load, max.	5 W
Load resistance range	
• lower limit	48 Ω
• upper limit	4 kΩ
Output voltage	
● for signal "1", min.	L+ (-0.8 V)
Output current	
● for signal "1" rated value	0.5 A
• for signal "0" residual current, max.	0.5 mA
Switching frequency	
• with resistive load, max.	100 Hz
with inductive load, max.	0.5 Hz
• on lamp load, max.	1 Hz
Total current of the outputs	
Current per group, max.	4 A
Cable length	
• unshielded, max.	30 m
Encoder	
Connectable encoders	

2-wire sensor
 — permissible quiescent current (2-wire sensor), max.

sensor), max.	
Interrupts/diagnostics/status information	
Substitute values connectable	Yes; channel by channel, parameterizable
Alarms	
Diagnostic alarm	Yes; Parameterizable
Diagnostic messages	
Short-circuit	Yes; Outputs to M; encoder supply to M; module by module
Diagnostics indication LED	
Channel status display	Yes; green LED
• for module diagnostics	Yes; green/red LED
For load voltage monitoring	Yes; green LED
Potential separation	
between the load voltages	Yes
Potential separation channels	
• between the channels, in groups of	8
 between the channels and backplane bus 	Yes
• between the channels and the power supply of	No; 8 channels are non-isolated and 8 channels are isolated from
the electronics	supply voltage 1L+
Isolation	
Isolation tested with	707 V DC (type test)
	707 V DC (type test)
Degree and class of protection	
	707 V DC (type test) IP65/67
Degree and class of protection IP degree of protection Ambient conditions	
Degree and class of protection IP degree of protection	IP65/67
Degree and class of protection IP degree of protection Ambient conditions	
Degree and class of protection IP degree of protection Ambient conditions Ambient temperature during operation	IP65/67
Degree and class of protection IP degree of protection Ambient conditions Ambient temperature during operation • min. • max.	IP65/67 -30 °C
Degree and class of protection IP degree of protection Ambient conditions Ambient temperature during operation • min.	IP65/67
Degree and class of protection IP degree of protection Ambient conditions Ambient temperature during operation • min. • max. Connection method	-30 °C 55 °C
Degree and class of protection IP degree of protection Ambient conditions Ambient temperature during operation • min. • max. Connection method Design of electrical connection for the inputs and	-30 °C 55 °C
Degree and class of protection IP degree of protection Ambient conditions Ambient temperature during operation • min. • max. Connection method Design of electrical connection for the inputs and outputs	-30 °C 55 °C M12, 5-pole
Degree and class of protection IP degree of protection Ambient conditions Ambient temperature during operation • min. • max. Connection method Design of electrical connection for the inputs and outputs Design of electrical connection for supply voltage	-30 °C 55 °C M12, 5-pole
Degree and class of protection IP degree of protection Ambient conditions Ambient temperature during operation • min. • max. Connection method Design of electrical connection for the inputs and outputs Design of electrical connection for supply voltage ET-Connection	-30 °C 55 °C M12, 5-pole M8, 4-pole
Degree and class of protection IP degree of protection Ambient conditions Ambient temperature during operation • min. • max. Connection method Design of electrical connection for the inputs and outputs Design of electrical connection for supply voltage ET-Connection • ET-Connection	-30 °C 55 °C M12, 5-pole M8, 4-pole
Degree and class of protection IP degree of protection Ambient conditions Ambient temperature during operation • min. • max. Connection method Design of electrical connection for the inputs and outputs Design of electrical connection for supply voltage ET-Connection • ET-Connection Dimensions	-30 °C 55 °C M12, 5-pole M8, 4-pole M8, 4-pin, shielded
Degree and class of protection IP degree of protection Ambient conditions Ambient temperature during operation • min. • max. Connection method Design of electrical connection for the inputs and outputs Design of electrical connection for supply voltage ET-Connection • ET-Connection Dimensions Width	-30 °C 55 °C M12, 5-pole M8, 4-pole M8, 4-pin, shielded
Degree and class of protection IP degree of protection Ambient conditions Ambient temperature during operation • min. • max. Connection method Design of electrical connection for the inputs and outputs Design of electrical connection for supply voltage ET-Connection • ET-Connection Dimensions Width Height	-30 °C 55 °C M12, 5-pole M8, 4-pole M8, 4-pin, shielded 45 mm 159 mm

Weight, approx.

195 g

05/13/2020 last modified: