

Data sheet

6ES7355-0VH10-0AE0
**Siemens
EcoTech**


Figure similar

spare part SIMATIC S7-300, Control Unit FM 355 C, 4 channels, continuous, 4 AI+8 DI+4 AO incl. multi-language configuration package, manual and Getting Started (de, en, fr, it) on CD-ROM

Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• permissible range, lower limit (DC)	20.4 V
• permissible range, upper limit (DC)	28.8 V
Input current	
from load voltage L+ (without load), max.	310 mA; Typ. 260 mA
from backplane bus 5 V DC, max.	75 mA; typ. 50 mA
Power loss	
Power loss, typ.	6.5 W
Power loss, max.	7.8 W
Digital inputs	
Number of digital inputs	8
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Input voltage	
• Rated value (DC)	24 V
• for signal "0"	-3 to +5V
• for signal "1"	13 to 30V
Input current	
• for signal "1", typ.	7 mA
Cable length	
• shielded, max.	1 000 m
• unshielded, max.	600 m
Analog inputs	
Number of analog inputs	4
permissible input voltage for voltage input (destruction limit), max.	30 V
permissible input current for current input (destruction limit), max.	40 mA
Input ranges	
• Voltage	Yes
• Current	Yes
• Thermocouple	Yes
• Resistance thermometer	Yes
Input ranges (rated values), voltages	

• 0 to +10 V — Input resistance (0 to 10 V) • -1.75 V to +11.75 V — Input resistance (-1.75 V to +11.75 V) • -80 mV to +80 mV — Input resistance (-80 mV to +80 mV)	Yes 100 kΩ Yes 100 kΩ Yes 10 MΩ
Input ranges (rated values), currents	
• 0 to 20 mA — Input resistance (0 to 20 mA) • 0 to 23.5 mA — Input resistance (0 to 23.5 mA) • -3.5 mA to +23.5 mA — Input resistance (-3.5 mA to +23.5 mA) • 4 mA to 20 mA — Input resistance (4 mA to 20 mA)	Yes 50 Ω Yes 50 kΩ Yes 50 Ω Yes 50 kΩ
Input ranges (rated values), thermocouples	
• type B — Input resistance (Type B) • Type J — Input resistance (type J) • Type K — Input resistance (Type K) • Type R — Input resistance (Type R) • Type S — Input resistance (Type S)	Yes 10 MΩ Yes 10 MΩ Yes 10 MΩ Yes 10 MΩ Yes 10 MΩ
Input ranges (rated values), resistance thermometer	
• Pt 100 — Input resistance (Pt 100)	Yes 10 MΩ
Thermocouple (TC)	
Temperature compensation	
— internal temperature compensation — external temperature compensation with Pt100	Yes Yes
Characteristic linearization	
• Parameterizable — for thermocouples — for resistance thermometer	Yes Type B, J, K, R, S Pt100 (standard)
Cable length	
• shielded, max.	200 m; 50 m at 80 mV and thermocouples
Analog outputs	
Number of analog outputs	4
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	25 mA
Current output, no-load voltage, max.	18 V
Output ranges, voltage	
• 0 to 10 V • -10 V to +10 V	Yes Yes
Output ranges, current	
• 0 to 20 mA • 4 mA to 20 mA	Yes Yes
Connection of actuators	
• for voltage output two-wire connection • for current output two-wire connection	Yes Yes
Load impedance (in rated range of output)	
• with voltage outputs, min. • with voltage outputs, capacitive load, max. • with current outputs, max. • with current outputs, inductive load, max.	1 kΩ 1 μF 500 Ω 1 mH
Cable length	

• shielded, max.		200 m; 50 m at 80 mV and thermocouples	
Analog value generation for the inputs			
Integration and conversion time/resolution per channel			
• Resolution with overrange (bit including sign), max.		14 bit; 12 bit or 14 bit, parameterizable	
Analog value generation for the outputs			
Settling time			
• for resistive load		0.1 ms	
• for capacitive load		3.3 ms	
• for inductive load		0.5 ms	
Encoder			
Connection of signal encoders			
• for voltage measurement		Yes	
• for current measurement as 4-wire transducer		Yes	
Connectable encoders			
• 2-wire sensor		Yes	
— permissible quiescent current (2-wire sensor), max.		1.5 mA	
Errors/accuracies			
Operational error limit in overall temperature range			
• Voltage, relative to input range, (+/-)		0.6 %; ±0.6 to ±1%	
• Current, relative to input range, (+/-)		0.6 %; ±0.6 to ±1%	
• Resistance thermometer, relative to input range, (+/-)		0.6 %; ±0.6 to ±1%	
• Voltage, relative to output range, (+/-)		0.5 %	
• Current, relative to output range, (+/-)		0.6 %	
Basic error limit (operational limit at 25 °C)			
• Voltage, relative to input range, (+/-)		0.4 %; 80 mV: ±0.6 %; 250 to 1 000 mV: ±0.4 %; 2.5 to 10 V: ±0.6 %; 3.2 to 20 mA: ±0.5 %	
• Current, relative to input range, (+/-)		0.4 %; ±0.4 to ±0.6 %	
• Resistance thermometer, relative to input range, (+/-)		0.4 %; ±0.4 to ±0.6 %	
• Voltage, relative to output range, (+/-)		0.3 %	
• Current, relative to output range, (+/-)		0.5 %	
Interrupts/diagnostics/status information			
Substitute values connectable		Yes; Parameterizable	
Integrated Functions			
Control technology			
• Number of closed-loop controllers		4	
Potential separation			
Potential separation controller			
• between the channels		No	
• between the channels and backplane bus		Yes; Optocoupler	
Isolation			
Isolation tested with		500 V DC	
Connection method			
required front connector		2x 20-pin	
Dimensions			
Width		80 mm	
Height		125 mm	
Depth		120 mm	
Weights			
Weight, approx.		470 g	
Classifications			
		Version	Classification
	eClass	14	27-24-22-05
	eClass	12	27-24-22-05
	eClass	9.1	27-24-22-05
	eClass	9	27-24-22-05
	eClass	8	27-24-22-05
	eClass	7.1	27-24-22-05

eClass	6	27-24-22-05
ETIM	10	EC001422
ETIM	9	EC001422
ETIM	8	EC001422
ETIM	7	EC001422
IDEA	4	3567
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval	Test Certificates	other
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EG-Konf.



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other	Environment
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