

*** SPARE PART*** SIMATIC DP, EXPANSION MODULE EM 145 FOR ET 200X, IP66/67 2AO,+/-10V,0(4)-20MA, 12BIT+SGN WITH DIAGNOSIS BY CHANNEL 2-WIRE CONNECTION, 2X5-PIN M12,



Figure similar

Input current	
from supply voltage L+, max.	110 mA
Power loss	
Power loss, typ.	2.3 W
Analog outputs	
Number of analog outputs	2
Current output, no-load voltage, max.	15 V
Cycle time (all channels) max.	1 ms
Output ranges, current	
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	
• for voltage output two-wire connection	Yes
• for current output two-wire connection	Yes
Load impedance (in rated range of output)	
• with current outputs, max.	500 Ω

• with current outputs, inductive load, max.	0.1 mH
Destruction limits against externally applied voltages and currents	
• Current, max.	40 mA
Cable length	
• shielded, max.	30 m
Analog value generation for the outputs	
Analog value display	S7 Format / S5 Format
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	11 bit; + sign
Settling time	
• for resistive load	0.6 ms
• for capacitive load	6 ms
Errors/accuracies	
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.05 %
Linearity error (relative to output range), (+/-)	0.08 %
Temperature error (relative to output range), (+/-)	0.01 %/K
Crosstalk between the outputs, min.	45 dB
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)	0.05 %
Operational error limit in overall temperature range	
• Voltage, relative to output range, (+/-)	1 %
• Current, relative to output range, (+/-)	1 %
Basic error limit (operational limit at 25 °C)	
• Voltage, relative to output range, (+/-)	0.9 %
• Current, relative to output range, (+/-)	0.9 %
Interrupts/diagnostics/status information	
Diagnostic functions	Yes; Parameterizable
Substitute values connectable	No; channel by channel
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Wire-break	Yes; channel by channel
• Short-circuit	Yes
Diagnostics indication LED	
• Group error SF (red)	Yes
Potential separation	
Potential separation analog outputs	
• Potential separation analog outputs	No
Connection method	

Design of electrical connection for the inputs and outputs	4/5-pin M12 circular connectors
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Dimensions

Width	87 mm; Width module 60 mm
Height	110 mm
Depth	55 mm

Weights

Weight, approx.	250 g
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last modified: 03/11/2017