SIEMENS

Data sheet 6ES7135-4FB52-0AB0



*** Spare part *** SIMATIC DP, Electronics module for ET 200S, 2 AO U High Speed, 15 mm width, +/-10 V, +/-5 V, 1.. 5V; 16 bit, Cycle time: 0.1ms with SF LED (group fault)

General information	
Product function	
● Isochronous mode	Yes
Supply voltage	
Load voltage L+	
● Rated value (DC)	24 V; From power module
● Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	130 mA
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	2.2 W
Address area	
Address space per module	
● Address space per module, max.	4 byte
Analog outputs	
Number of analog outputs	2
Voltage output, short-circuit protection	Yes
Voltage output, short-circuit current, max.	25 mA
Cycle time (all channels) max.	0.25 ms
Output ranges, voltage	
● 1 V to 5 V	Yes
● -5 V to +5 V	Yes
● -10 V to +10 V	Yes
Connection of actuators	
● for voltage output two-wire connection	Yes; Without compensation of the line resistances
● for voltage output four-wire connection	Yes
Load impedance (in rated range of output)	
● with voltage outputs, min.	1 kΩ
● with voltage outputs, capacitive load, max.	1 µF; 0.1 µF for Twa=0.1 ms
Destruction limits against externally applied voltages and currents	
● Voltages at the outputs towards MANA	15 V; Max. 15 V for max. 5 hours, 75 V for max. 1 s
● Current, max.	30 mA; DC
Cable length	
● shielded, max.	200 m; Max. 20 m for TWA 100 µs
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
● Resolution with overrange (bit including sign), max.	16 bit; 1 to 5 V: 14 bit, ±10 V: 15 bit + sign, ±5 V: 14 bit + sign
Settling time	

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● for resistive load	0.05 ms
● for capacitive load	0.05 ms
● for inductive load	0.05 ms
Errors/accuracies	
Operational error limit in overall temperature range	
● Voltage, relative to output range, (+/-)	0.2 %
Basic error limit (operational limit at 25 °C)	
● Voltage, relative to output range, (+/-)	0.01 %
Interrupts/diagnostics/status information	
Substitute values connectable	Yes; 0 to 65535 (range of values must be within the rated range)
Diagnoses	
● Diagnostic information readable	Yes
● Wire break	No
● Short-circuit	Yes
● Group error	Yes
Diagnostics indication LED	
● Group error SF (red)	Yes
Potential separation	
Potential separation analog outputs	
● between the channels	No
● between the channels and backplane bus	Yes
● Between the channels and load voltage L+	Yes
Isolation	
Isolation tested with	500 V DC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	40 g

Classifications

	Version	Classification
eClass	16	27-24-26-01
eClass	14	27-24-26-01
eClass	12	27-24-26-01
eClass	9.1	27-24-26-01
eClass	9	27-24-26-01
eClass	8	27-24-26-01
eClass	7.1	27-24-26-01
eClass	6	27-24-26-01
ETIM	10	EC001596
ETIM	9	EC001596
ETIM	8	EC001596
ETIM	7	EC001596
IDEA	4	3562
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Manufacturer Declaration

Miscellaneous

General Product Approval	EMV	For use in hazardous locations

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China RoHS

For use in hazardous locations

FM

Miscellaneous

For use in hazardous locations	Maritime application

CCC-Ex

NK / Nippon Kaiji Kyokai

Maritime application

CCS (China Classification Society)

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