

SIEMENS

Product data sheet

6ES7135-4FB52-0AB0


SIMATIC DP,
ELECTRONIC MODULE FOR ET200S,
2 AO U HIGH SPEED, 15 MM WIDTH, +/-10V,
+/-5V, 1.. 5V;
16BIT,
CYCLE TIME: 0.1 MS WITH LED SF (GROUP FAULT)

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.	100 mA
from backplane bus 3.3 V DC, max.	10 mA
Power losses	
Power loss, max.	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 to 5 V	Yes
-10 to +10 V	Yes ; +/-5V as well
Connection of actuators	
for voltage output 2-conductor connection	Yes ; Without compensation of the line resistances
for voltage output 4-conductor connection	Yes
Load impedance (in rated range of output)	
with voltage outputs, min.	1 k Ω
with voltage outputs, capacitive load, max.	1 μ F ; 0.1 μ F 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	
Cable length, shielded, max.	200 m ; Max. 20 m for TWA 100 μ s
Analog value creation	
Integrations and conversion time/ resolution per channel	
Resolution with overrange (bit including sign), max.	16 bit ; 1 to 5 V: 14 bits, +/-10 V: 15 bit + sign, +/-5 V: 14 bits + sign
Settling time	
for resistive load	0.05 ms
for capacitive load	0.05 ms
for inductive load	0.05 ms
Errors/accuracies	
Output ripple (based on output area, bandwidth 0 to 50 kHz)	+/- 0,02 %
Linearity error (relative to output area)	+/- 0,03 %
Temperature error (relative to output area)	+/- 0,01 %/K
Crosstalk between the outputs, min.	60 dB
Repeat accuracy in settled status at 25 °C (relative to output area)	+/- 0,03 %
Operational limit in overall temperature range	
Voltage, relative to output area	+/- 0,2 %

Basic error limit (operational limit at 25 °C)	
Voltage, relative to output area	+/- 0,01 %
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	Yes
Interrupts/diagnostics/status information	
Substitute values connectable	Yes ; 0 to 65535 (range of values must be within the rated range)
Diagnostic messages	
Diagnostic functions	Yes
Diagnostic information readable	Yes
Wire break	No
Short circuit	Yes
Group error	Yes
Diagnostics indication LED	
Group error SF (red)	Yes
Parameter	
Remark	7
Output type/range	deactivated / 1 to 5 V / +/- 10 V / +/- 5 V
Diagnosis: short circuit	Disable / enable
Group diagnostics	Disable / enable
Behavior on CPU/Master STOP	Output current and de-energized/substitute a value/keep last value
Galvanic isolation	
Galvanic isolation analog outputs	
between the channels	No
between the channels and the backplane bus	Yes
between the channels and the load voltage L+	Yes
Permissible potential difference	
between MANA and M internally (UISO)	75 VDC / 60 VAC
Dimensions	
Width	15 mm
Height	81 mm
Depth	52 mm

Weight	
Weight, approx.	40 g
Status	Jul 17, 2012