

## Data sheet

## 6ES7145-4GF00-0AB0



Figure similar

SIMATIC DP, Electronic modules for ET 200 PRO 4 AO I High Feature,  $\pm 20$  mA; 0...20 mA; 4-20mA; Channel diagnostics; incl. bus module, Connection module IO 6ES7194-4..00-0AA0 order separately

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes; against destruction
Input current	
from supply voltage 1L+, max.	110 mA
from backplane bus 3.3 V DC, max.	10 mA
Actuator supply	
Number of outputs	4
Short-circuit protection	Yes; per module
Output current	
• up to 55 °C, max.	1 A
Power loss	
Power loss, typ.	2.3 W
Address area	
Address space per module	
• Address space per module, max.	8 byte
Analog outputs	
Number of analog outputs	4
Voltage output, short-circuit protection	Yes; per module, electronic to frame
Current output, no-load voltage, max.	16 V
Cycle time (all channels) max.	3 ms
Output ranges, current	
• 0 to 20 mA	Yes
• -20 mA to +20 mA	Yes
• 4 mA to 20 mA	Yes
Connection of actuators	
• for current output two-wire connection	Yes
• for current output four-wire connection	Yes
Load impedance (in rated range of output)	
• with current outputs, max.	600 $\Omega$
• with current outputs, inductive load, max.	1 mH
Destruction limits against externally applied voltages and currents	
• Current, max.	100 mA
Cable length	
• shielded, max.	30 m
Analog value generation for the outputs	
Integration and conversion time/resolution per channel	
• Resolution with overrange (bit including sign), max.	15 bit; at $\pm 20$ mA; 14 bit at 0 to 20 mA; 15 bit at 4 to 20 mA

• Conversion time (per channel)	0.7 ms	
<b>Settling time</b>		
• for resistive load	0.1 ms	
• for inductive load	1 ms	
<b>Errors/accuracies</b>		
Output ripple (relative to output range, bandwidth 0 to 50 kHz), (+/-)	0.02 %	
Linearity error (relative to output range), (+/-)	0.1 %	
Temperature error (relative to output range), (+/-)	0.01 %/K	
Repeat accuracy in steady state at 25 °C (relative to output range), (+/-)	0.05 %	
<b>Operational error limit in overall temperature range</b>		
• Current, relative to output range, (+/-)	0.2 %	
<b>Basic error limit (operational limit at 25 °C)</b>		
• Current, relative to output range, (+/-)	0.15 %	
<b>Interrupts/diagnostics/status information</b>		
Diagnostics function	Yes	
Substitute values connectable	Yes	
<b>Alarms</b>		
• Diagnostic alarm	Yes; Parameterizable	
• Hardware interrupt	No	
<b>Diagnoses</b>		
• Diagnostic information readable	Yes	
• Wire break	Yes; per channel, not in zero range	
• Short-circuit	No	
<b>Diagnostics indication LED</b>		
• Group error SF (red)	Yes	
<b>Potential separation</b>		
<b>Potential separation analog outputs</b>		
• between the channels	No	
• between the channels and backplane bus	Yes	
<b>Isolation</b>		
Isolation tested with	707 V DC (type test)	
<b>Dimensions</b>		
Width	45 mm	
Height	130 mm	
Depth	35 mm	
<b>Weights</b>		
Weight, approx.	150 g	
<b>Classifications</b>		
	<b>Version</b>	<b>Classification</b>
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
<b>Approvals / Certificates</b>		
<b>General Product Approval</b>		

[Manufacturer Declaration](#)



[Miscellaneous](#)



[Metrological Approval](#)

General Product Approval



Maritime application

Maritime application



[NK / Nippon Kaiji Kyokai](#)



[CCS \(China Classification Society\)](#)

[KR \(Korean Register of Shipping\)](#)

last modified:

10/23/2025

# TURLL

YOUR GLOBAL AUTOMATION PARTNER

## 6ES7145-4GF00-0AB0

OFFICIAL DATASHEET & QUOTATION

- 100% New & Original Factory Sealed
- Global Express Shipping (DHL/FedEx/UPS)
- 12-Month Warranty Protection
- Professional Technical Support

[CHECK STOCK & PRICE](#)



Need Assistance? Scan to Chat on WhatsApp

[sales@turl.com](mailto:sales@turl.com) | +852 6339 7344