

## Data sheet

## 6ES7144-4GF01-0AB0



SIMATIC DP, Electronic module for ET 200 PRO 4 AI 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.	40 mA; Typical
from backplane bus 3.3 V DC, max.	12 mA; Typical
Encoder supply	
Number of outputs	4
Short-circuit protection	Yes; per module, electronic to frame
Output current	
<ul style="list-style-type: none"> <li>up to 55 °C, max.</li> </ul>	1 A
Power loss	
Power loss, typ.	1.1 W
Address area	
Address space per module	<ul style="list-style-type: none"> <li>Address space per module, max.</li> </ul>
	8 byte
Analog inputs	
Number of analog inputs	4
permissible input current for current input (destruction limit), max.	40 mA
Cycle time (all channels) max.	10 ms
Input ranges (rated values), currents	
<ul style="list-style-type: none"> <li>0 to 20 mA</li> <li>— Input resistance (0 to 20 mA)</li> </ul>	Yes 50 $\Omega$
<ul style="list-style-type: none"> <li>-20 mA to +20 mA</li> <li>— Input resistance (-20 mA to +20 mA)</li> </ul>	Yes 50 $\Omega$
<ul style="list-style-type: none"> <li>4 mA to 20 mA</li> <li>— Input resistance (4 mA to 20 mA)</li> </ul>	Yes 50 $\Omega$
Cable length	
<ul style="list-style-type: none"> <li>shielded, max.</li> </ul>	30 m
Analog value generation for the inputs	
Measurement principle	integrating
Integration and conversion time/resolution per channel	
<ul style="list-style-type: none"> <li>Resolution with overrange (bit including sign), max.</li> <li>Interference voltage suppression for interference frequency <math>f_1</math> in Hz</li> </ul>	15 bit; 15 bit + sign at $\pm 10$ V, at $\pm 5$ V; 15 bit at 0 V to 10 V, at 1 V to 5 V 16,67 / 50 / 60 / 3 600
Smoothing of measured values	
<ul style="list-style-type: none"> <li>parameterizable</li> <li>Step: None</li> </ul>	Yes Yes; 1x cycle time

<ul style="list-style-type: none"> <li>• Step: low</li> <li>• Step: Medium</li> <li>• Step: High</li> </ul>	Yes; 4x cycle time Yes; 16x cycle time Yes; 64x cycle time
<b>Encoder</b>	
Connection of signal encoders	
<ul style="list-style-type: none"> <li>• for current measurement as 2-wire transducer</li> <li>• for current measurement as 4-wire transducer</li> </ul>	Yes Yes
<b>Errors/accuracies</b>	
Linearity error (relative to input range), (+/-)	0.0075 %
Temperature error (relative to input range), (+/-)	0.00075 %/K
Crosstalk between the inputs, min.	-70 dB
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	0.004 %
Operational error limit in overall temperature range	
<ul style="list-style-type: none"> <li>• Current, relative to input range, (+/-)</li> </ul>	0.1 %
Basic error limit (operational limit at 25 °C)	
<ul style="list-style-type: none"> <li>• Current, relative to input range, (+/-)</li> </ul>	0.075 %
Interference voltage suppression for $f = n \times (f1 \pm 0.5 \%)$ , $f1 =$ interference frequency	
<ul style="list-style-type: none"> <li>• Series mode interference (peak value of interference &lt; rated value of input range), min.</li> <li>• Common mode interference (USS &lt; 2.5 V), min.</li> </ul>	60 dB 80 dB; Interference voltage < 5 V
<b>Interrupts/diagnostics/status information</b>	
Diagnostics function	Yes
<b>Alarms</b>	
<ul style="list-style-type: none"> <li>• Diagnostic alarm</li> <li>• Hardware interrupt</li> </ul>	Yes; Parameterizable Yes; (limit value alarm), can be parameterized for channel 0
<b>Diagnoses</b>	
<ul style="list-style-type: none"> <li>• Diagnostic information readable</li> <li>• Wire break</li> <li>• Short-circuit</li> </ul>	Yes Yes; at 4 to 20 mA Yes; at 4 to 20 mA
Diagnostics indication LED	
<ul style="list-style-type: none"> <li>• Group error SF (red)</li> </ul>	Yes
<b>Potential separation</b>	
Potential separation analog inputs	
<ul style="list-style-type: none"> <li>• between the channels</li> <li>• between the channels and backplane bus</li> </ul>	No Yes
<b>Permissible potential difference</b>	
Between the inputs and MANA (UCM)	5 Vpp AC
<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>	

	Version	Classification
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](#)



[Metrological Approval](#)

General Product Approval

Maritime application



Maritime application



[NK / Nippon Kaiji Kyokai](#)



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

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

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