SIEMENS

Data sheet 6ES7141-4BF00-0AB0



SIMATIC DP, Electronic modules for ET 200 PRO 8 DI 24 V DC High Feature, Channel diagnostics; short-circuit and wire break; 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; load increasing
Input current	
from supply voltage 1L+, max.	40 mA
from backplane bus 3.3 V DC, max.	20 mA
Encoder supply	
Number of outputs	8
Short-circuit protection	Yes; per channel, electronic
Output current	
● up to 55 °C, max.	1 A
Power loss	
Power loss, typ.	2.5 W
Address area	
Address space per module	
● Address space per module, max.	1 byte
Digital inputs	
Number of digital inputs	8
Sourcing/sinking input	P-reading
Input characteristic curve in accordance with IEC 61131, type 1	No
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 55 °C, max.	8
Input voltage	
● Rated value (DC)	24 V
● for signal "0"	-3 to +5V
● for signal "1"	+11 to +30V
Input current	
● for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	Yes
— at "0" to "1", min.	0.5 ms; 0.5 ms/ 3ms/ 15 ms/ 20 ms
— at "0" to "1", max.	20 ms
— at "1" to "0", min.	0.5 ms; 0.5 ms/ 3ms/ 15 ms/ 20 ms
— at "1" to "0", max.	20 ms
Cable length	
● unshielded, max.	30 m

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Encoder	
Connectable encoders	
● 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Interrupts/diagnostics/status information	
Diagnostics function	Yes; channel by channel, parameterizable
Alarms	
● Diagnostic alarm	Yes
● Hardware interrupt	Yes
Diagnoses	
● Diagnostic information readable	Yes
● Wire break	Yes; Monitoring, I < 0.3 mA; per channel
● Short-circuit	Yes; channel by channel
Diagnostics indication LED	
● Group error SF (red)	Yes
● Status indicator digital input (green)	Yes; Per channel
Potential separation	
between backplane bus and all other circuit components	Yes
Potential separation digital inputs	
● between the channels	No
● between the channels and backplane bus	Yes
Isolation	
Isolation tested with	707 V DC (type test)
Dimensions	
Width	45 mm
Height	130 mm
Depth	35 mm; without terminal module
Weights	
Weight, approx.	140 g

Classifications

	Version	Classification
eClass	16	27-24-26-04
eClass	14	27-24-26-04
eClass	12	27-24-26-04
eClass	9.1	27-24-26-04
eClass	9	27-24-26-04
eClass	8	27-24-26-04
eClass	7.1	27-24-26-04
eClass	6	27-24-26-04
ETIM	10	EC001599
ETIM	9	EC001599
ETIM	8	EC001599
ETIM	7	EC001599
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous | Manufacturer Declaration

General Product Approval	Maritime application

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China RoHS

Maritime application

NK / Nippon Kaiji Kyokai

CCS (China Classification Society)

Maritime application

KR (Korean Register of Shipping)

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