SIEMENS

Data sheet 6ES7141-4BH00-0AA0



Figure similar

SIMATIC DP, Electronic module for ET 200 PRO 16 DI 24 V DC, Module diagnostics; incl. bus module, Connection module IO 6ES7194-4CB50-0AA0 order separately

Supply voltage	
Rated value (DC)	24 V
Reverse polarity protection	Yes; Against destruction; encoder power supply outputs applied with reversed polarity
Input current	
from supply voltage 1L+, max.	30 mA
from backplane bus 3.3 V DC, max.	20 mA
Encoder supply	
Number of outputs	8
Short-circuit protection	Yes; per module, electronic
Output current	
● up to 55 °C, max.	1 A
Power loss	
Power loss, typ.	3 W
Address area	
Address space per module	
● Address space per module, max.	2 byte
Digital inputs	
Number of digital inputs	16
Sourcing/sinking input	P-reading
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 55 °C, max.	16
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.	4 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", min.	1.2 ms
— at "0" to "1", max.	4.8 ms
— at "1" to "0", min.	0.7 ms
— at "1" to "0", max.	3 ms
Cable length	

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● unshielded, max.	30 m
Encoder	
Connectable encoders	
● 2-wire sensor	Yes
— permissible quiescent current (2-wire sensor), max.	1.5 mA
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Alarms	
● Diagnostic alarm	Yes
Diagnoses	
● Diagnostic information readable	Yes
● Short-circuit	Yes; Sensor supply to M; module by module
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
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	EMV

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RCM	China RoHS	Miscellaneous	Manufacturer Declaration	RCM	RCM

For use in hazardous locations					
ATEX	FM	Declaration of Conformity	CCC	IECEx	Type Examination Certificate

For use in hazardous locations	Maritime application				
ATEX	ABS	BUREAU VERITAS	DNV	LRS	NK / Nippon Kaiji Kyokai

Maritime application				other	Environment
PRS	RINA	RMRS	CCS (China Classification Society)	Miscellaneous	EPD

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