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Data sheet 6ES7322-5SD00-0AB0



Figure similar

********** spare part ********* SIMATIC S7, digital output SM 322, isolated, 4 DO; 24 V DC, 10 mA, 1 x 20-pole, for signals from the hazardous area, diagnostics-capable, PTB tested

Supply voltage	
Load voltage L+	
● Rated value (DC)	24 V
● Reverse polarity protection	Yes
Input current	
from load voltage L+ (without load), max.	160 mA
from backplane bus 5 V DC, max.	85 mA
Power loss	
Power loss, typ.	3 W
Digital outputs	
Number of digital outputs	4
Short-circuit protection	Yes; Electronic
● Response threshold, typ.	Output current with short-circuit protection, min. 10 mA + 10 %
Load resistance range	
● upper limit	390 Ω; Two-wire connection
Output voltage	
● Rated value (DC)	24 V
Output current	
● for signal "1" permissible range for 0 to 60 °C, max.	10 mA; ±10 %
Switching frequency	
● with resistive load, max.	100 Hz
Cable length	
● unshielded, max.	200 m
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Diagnoses	
● Diagnostic information readable	Yes
● Short-circuit	Yes
Diagnostics indication LED	
● Group error SF (red)	Yes
● Status indicator digital output (green)	Yes
● Channel fault indicator F (red)	Yes
Ex(i) characteristics	
Module for Ex(i) protection	Yes
maximum values for connecting terminals for gas group IIC	
● Uo (no-load voltage), max.	25.2 V
● Io (short-circuit current), max.	70 mA
● Po (power output), max.	440 mW

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● Co (permissible external capacity), max.	90 nF
● Lo (permissible external inductivity), max.	6.7 mH
Potential separation	
Potential separation digital outputs	
● between the channels	Yes; 60 V DC/30 V AC when used in the hazardous area; 400 V DC/250 V AC when used in NON-hazardous area
● between the channels, in groups of	1
● between the channels and backplane bus	Yes; 60 V DC/30 V AC when used in the hazardous area; 400 V DC/250 V AC when used in NON-hazardous area
● Between the channels and load voltage L+	Yes; 60 V DC/30 V AC when used in the hazardous area; 400 V DC/250 V AC when used in NON-hazardous area
Standards, approvals, certificates	
Use in hazardous areas	
● ATEX marking	[EEx ib] IIC
● FM marking	AIS CL.1, DIV 1, GP A, B, C, D; CL.I, DIV 2, GP A, B, C, D T4
● Test number PTB	Ex-96.D.2093X
Ambient conditions	
Ambient temperature during operation	
● max.	60 °C
Connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	230 g

Classifications

	Version	Classification
eClass	16	27-24-22-04
eClass	14	27-24-22-04
eClass	12	27-24-22-04
eClass	9.1	27-24-22-04
eClass	9	27-24-22-04
eClass	8	27-24-22-04
eClass	7.1	27-24-22-04
eClass	6	27-24-22-04
ETIM	10	EC001419
ETIM	9	EC001419
ETIM	8	EC001419
ETIM	7	EC001419
IDEA	4	3566
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Miscellaneous

China RoHS

General Product Approval		For use in hazardous locations			
Manufacturer Declaration	Miscellaneous	IECEx	ATEX	FM	ATEX

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For use in hazardous locations			Maritime application		
	CCC-Ex			NK / Nippon Kaiji Ky-okai	

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