SIEMENS

Data sheet

6ES7141-6BG00-0AB0



SIMATIC DP, ET 200ECO PN, 8 DI 24 V DC; 8xM12, Degree of protection IP67

Fi	g	ur	e	si	m	il	ar

General information						
Vendor identification (VendorID)	002AH					
Device identifier (DeviceID)	0306H					
Supply voltage						
Rated value (DC)	24 V					
Reverse polarity protection	Yes					
power supply according to NEC Class 2 required	Yes					
Input current						
Current consumption, typ.	100 mA					
from supply voltage 1L+, max.	4 A					
Encoder supply						
Number of outputs	8					
24 V encoder supply						
Short-circuit protection	Yes; Electronic					
• Output current, max.	100 mA; per output					
Power loss						
Power loss, typ.	4.5 W					
Digital inputs						
Number of digital inputs	8					
• in groups of	1					
Input characteristic curve in accordance with IEC 61131, type 3	Yes					
Number of simultaneously controllable inputs						
all mounting positions						
— up to 60 °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						
— at "0" to "1", max.	typically 3 ms					
— at "1" to "0", max.	typically 3 ms					
Cable length						
 unshielded, max. 	30 m					
Encoder						
Connectable encoders						
2-wire sensor	Yes					

Interfaces Dotos Transmission procedure Dotos Interfaces 1 Interfaces 1 Interfaces Yes Protocold Yes Protocold Yes Protocold for PROFINET IO Yes Protocold sature Yes Interfaces Yes Protocold sature Yes Interfaces Yes Interfaces Yes Interfaces Yes Interfaces Yes Interfaces Yes Interfaces Yes Interfaces <th>— permissible quiescent current (2-wire sensor), max.</th> <th>1.5 mA</th>	— permissible quiescent current (2-wire sensor), max.	1.5 mA		
Transistor procedure 1000000000000000000000000000000000000				
Number of PROFINET Interfaces 1 1. Interface Yes Interface types 1 Mathematic types 1 1. Autorosoptiation Yes 1. Autorosoptiation Yes 1. Autorosoptiation Yes 1. Autorosoptiation Yes Proceeds No PROFile No PROFile No PROFile Yes Restructancy: mode Yes Meain refundancy: - - MRP Yes Open Economisation Yes I.DEP Yes Open Standards: Yes: gr		100BASE-TX		
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Interface byses		·		
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Interface by Cos M12 poit - Autorosping Yes - Autorosping Yes - Autorosping Yes - Transmission rate, max. 100 Mbd/s Protocols Supports protocol for PROFINET CBA Supports protocol for PROFINET CBA No PROFINET CBA No PROFINET CBA No PROFINET CBA No - First with the option "high flexibility" Yes Prioritzed statup Yes Prioritzed statup Yes Prioritzed statup Yes - MRP Yes Open E communication No - SNMP Yes - LDP Yes - DCP Yes - ARP Yes - ARP Yes - Diagnostic status Information Diagnostic status Yes - Open City Yes - Monicing the supply voltage Yes; green "ON" LED - Web vecks in signal formation readable Yes - Sh	-			
MM2 part • Autocrossing Yes • Torsensision rate, max, 100 Mbit/s Protocols 100 Mbit/s Supports protocol for PROFINET IO Yes Supports protocol for PROFINET IO Yes PROFINET CBA No PROFINET CBA Ves - Protocide startup Yes Redurdancy mode Yes Media redurdancy Yes Open IE communication No • COPP Yes • Diagnostic Startus Information Yes • Diagnostic Startus Information Yes Diagnostic Startus Information Yes Diagnostic Startus Information Yes Diagnostic Startus Information Yes Diagnostic Information readable Yes Open IE consult encoder supply Yes Opensitic formation readable Yes • Diagnostic Startus Information Yes Diagnostic Information readable Yes • Oblegnostic Information readable Yes • Nontoring the supply voltago Yes, Per channel group • Otherer Support Protocole Yes	-			
Yes• AutocrossingYes• Transmission rate, max.100 MbitisProcessingYes• Transmission rate, max.100 MbitisProcessingYes• ProcessingNoPROFINET CEANoPROFINET TO DeviceYes• THT with the option "high floxibility"Yes- In TH with the option "high floxibility"Yes- In The With the option "high floxibility"Yes- In The With the option "high floxibility"Yes- In The With the option Thigh floxibilityYes- In The With the option The Wi				
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Supports protocol for PROFINET IO Yes PROFINET CBA No PROFINET IO Device No Services - Services - RefUnitive function Yes - - Redundamy mode Yes - - Open IE communication No • TCP/P No • SIMMP Yes • DCP Yes • Diagnostics/status Information Yes • Diagnostics/status Information Yes • Diagnostic Information readable Yes • Sindv-fucture encode supply Yes • Diagnostic Information readable Yes • Sindv-fucture encode supply Yes • Detween the data sup and transmitter cable Yes • Detween the data sup and trans tyet (transupply) Yes; Redupallo		100 Mbit/s		
PROFINET CBA No PROFINET Construct No PROFINET Construct No Services - - IRT with the option "high flaxbility" Yes - Prioritized startup Yes Redundancy mode - Media redundary Yes - MRP Yes Open IE: communication - • TCP/IP No • SNMP Yes • DCP Yes • DLDP Yes • Dignostic s/starts information - Diagnostic s/starts information Yes Diagnostic s/starts information Yes Diagnostic information readable Yes, Yes • Diagnostic information readable Yes, Reduyellow "SFMIT" LED • Diagnostic information readable Yes • Diagnostic information	Protocols			
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PROFINET IO Device Services IRT with the option "high flexibility" Yes Prioritized startup Yes Redundancy mode	PROFINET CBA	No		
Services	PROFIsafe	No		
	PROFINET IO Device			
— Prioritized startup Yes Redundancy mode	Services			
Redundancy mode MRP Yes Open IE communication No • TCP/IP No • SIMIP Yes • DCP Yes • DLDP Yes • LLDP Yes • ping Yes • Dapostic status information Yes • Diagnostic status information Yes • Diagnostic status information Yes • Diagnostic information readable Yes • Diagnostic information readable Yes • Monotring the supply voltage Yes; green "CN" LED • Wire-break in signal transmitter cable Yes • Group error Yes; Per channel group • Group error Yes; Not-Circuit encoder supply • Detwen the load voltage and all other switching components No between the cold voltage and all other switching components No between the channels No between	 — IRT with the option "high flexibility" 	Yes		
Media redundancyYes—MRPYes©CPCIE IC comunicationNo• TCP/IPNo• SINMPYes• DCPYes• DLDPYes• LLDPYes• LLDPYes• ARPYes• ARPYesARPYes• Diagnostics/status informationYesDiagnostics/status informationYesDiagnostics/status informationYesDiagnostics function (Padable)Yes• Diagnostic information readableYes• Diagnostic informationNo• Diagnostic informationNo• Dietwei He Ioda voltage and all	— Prioritized startup	Yes		
MRPYesOpen LE communication• TCP/IPNo• SNMPYes• DCPYes• LLDPYes• LLDPYes• ARPYesInterruptic/diagnostics/status informationYesDiagnostic sfunctionYesAlarmsVes• Diagnostic alarmYes• Short-circuit encoder supplyYes• Short-circuit encoder supplyYes• Detwent the load voltagesYes• Detwent the load voltagesYes• Detwent the charnelsNo• Detwent the charnelsNo	Redundancy mode			
Open IE communication No • CCP/IP No • SNMP Yes • DCP Yes • LDP Yes • LDP Yes • Inig Yes • ARP Yes Diagnostics function Yes Atams Yes • Diagnostic alam Yes • Diagnostic information readable Yes • Monitoring the supply voltage Yes; green "ON" LED • Monitoring the supply voltage Yes; green "ON" LED • Monitoring the supply voltage Yes; green "ON" LED • Short-circuit encoder supply Yes; Per channel group • Oroup error Yes; Red/yellow "SF/MT" LED Potential separation No between the load voltages Yes • Detween the load voltages and all other switching components No between the load voltage and all other switching components No • between the channels No • between the channels No • between the channels No • Test voltage for interfacer, rms value [Vr	Media redundancy			
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Dimensions Width 60 mm Height 175 mm Depth 49 mm	connection method			
Width 60 mm Height 175 mm Depth 49 mm	Design of electrical connection	4/5-pin M12 circular connectors		
Height 175 mm Depth 49 mm	Dimensions			
Depth 49 mm	Width	60 mm		
	Height	175 mm		
Weights	Depth	49 mm		
	Weights			

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