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Data sheet 6ES7138-4FR00-0AA0



Figure similar

*** Spare part *** SIMATIC DP, Electronics module 1F-RO 24 V DC/AC 24..230V/5A, f. ET200S, 30 mm overall width, 1 relay output (2 NO) Output current 5 A, load voltage 24 V DC and 24...230 V AC, Can be used up to Category 4 (EN 954-1)/ SIL3 (IEC61508)/PLE (ISO13849), if control takes place F-DO (e.g. 6ES7138-4FB02-0AB0) F-DQ

Supply voltage	
Load voltage L+	
● Rated value (DC)	24 V; Supply via fail-safe output, e.g. of an F-DO
Input current	
from load voltage L+ (without load), max.	100 mA; from control voltage
from backplane bus 3.3 V DC, max.	10 mA
Power loss	
Power loss, typ.	2.1 W
Address area	
Address space per module	
● Address space per module, max.	1 byte
● with packing	2 bit
Digital outputs	
Type of digital output	Relays
Number of digital outputs	1
Short-circuit protection	No
Controlling a digital input	Yes
Output current	
● for signal "1" rated value	5 A
● for signal "1" minimum load current	5 mA
Switching frequency	
● with resistive load, max.	2 Hz
● with inductive load, max.	0.1 Hz
Total current of the outputs	
● Current per module, max.	8 A
Total current of the outputs (per group)	
horizontal installation	
— up to 40 °C, max.	8 A
— up to 50 °C, max.	6 A
— up to 60 °C, max.	5 A; up to max. 24.8 V
vertical installation	
— up to 40 °C, max.	6 A
Relay outputs	
Switching capacity of contacts	
— Thermal continuous current, max.	5 A
Cable length	
● shielded, max.	200 m
● unshielded, max.	200 m

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Interrupts/diagnostics/status information	
Diagnostics indication LED	
● Status indicator digital output (green)	Yes
Potential separation	
Potential separation digital outputs	
● between the channels	Yes
● between the channels and backplane bus	Yes
● Between the channels and load voltage L+	Yes; between channels and control voltage
Standards, approvals, certificates	
Highest safety class achievable in safety mode	
● acc. to EN 954	4
● Performance level according to ISO 13849-1	e
● SIL acc. to IEC 61508	Up to SIL 3
Dimensions	
Width	30 mm
Height	81 mm
Depth	52 mm
Weights	
Weight, approx.	90 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

Manufacturer Declaration

Miscellaneous

General Product Approval	EMV	For use in hazardous locations	Functional Saftey
China RoHS		FM	TUEV

Functional Saftey	Maritime application			
Type Examination Certificate				NK / Nippon Kaiji Kyokai

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Maritime application





KR (Korean Register of Shipping)

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