

SIDOOR ATE531S Control device for Platform doors, with protective coating, with fan, up to 280 kg door weight, 1*RS485, 5*DI, 2*DO, -25 - +70 °C PROFINET IO Conformance Class C via 2x RJ45 sockets



Figure similar

General information	
Product type designation	ATE531S
Product version	With PROFINET interface, protective coating, and temperature extension
Optional product expansion	Standard mounting rail holder 6FB1144-0AT00-3AS0
Manufacturer's article no. of the usable motor	6FB1203-0AT12-7DA0
Manufacturer's article no. of the usable power supply unit	6FB1112-0AT20-2TR0
Mean time between failures (MTBF)	13 y
Installation type/mounting	
Installation and mounting instructions	No direct exposure to the sun
Supply voltage	
Design of the power supply	Via SIDOOR TRANSFORMER or via DC
Rated value (DC)	36 V; With MED280: At 24 V DC max. door speed of 500 mm/s, at 28.8 V DC max. door speed of 800 mm/s. With MEG251: At 24 V DC max. door speed of 500 mm/s, at 28.8 V DC max. door speed of 750 mm/s

permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	37.1 V
Protection in case of DC supply	Use of a circuit breaker in the supply path according to 60898-1, 8A, C-characteristic type SIEMENS: 5SY4108-7 or 5SY4108-7KK11

Encoder supply

Output voltage (DC)	24 V
short-circuit proof	Yes
Overload-proof	Yes
Remark	Ensure correct polarity! CAUTION: Do not supply with external voltage!

Output current

<ul style="list-style-type: none"> For output (24 V DC), max. 	400 mA
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Power

Active power input	80 W
Active power input, max.	540 W
Active power input (standby mode)	7 W

Digital inputs

Control inputs isolated	Yes
Control inputs p-switching	Yes

Input voltage

<ul style="list-style-type: none"> per DC input, min. 	10 V; Observe polarity !
<ul style="list-style-type: none"> per DC input, max. 	28 V; Observe polarity !

Input current

<ul style="list-style-type: none"> per DC input, min. 	3 mA
<ul style="list-style-type: none"> per DC input, max. 	15 mA

Digital outputs

Relay outputs

Switching capacity of contacts	
— at 30 V DC, min.	0.01 A
— at 30 V DC, max.	0.5 A

Mechanical data

Opening width of door, min.	0.35 m
Opening width of door, max.	5 m
Weight of door, max.	280 kg
Operating cycle frequency of door, max.	180 1/h
Kinetic energy, max.	75 J

Interfaces

Interfaces/bus type	PROFINET according to Conformance Class A, B, C; integrated switch for linear and ring structure
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Isolation

Overvoltage category	2
Degree and class of protection	
IP degree of protection	IP20
Standards, approvals, certificates	
CE mark	No
UL approval	No
China RoHS compliance	Yes
Standard for EMC	EN 61000-6-2 / EN 61000-6-4 / EN 61326-3-1 / EN 50121-3-2 / EN50121-4 / EN50121-5
Standard for safety	EN 60950-1 / EN 60335-1 / EN 14752 / EN ISO 13849-1 Cat. 2 PL d / IEC 62061: SIL 2
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> • min. • max. • Remark 	<p>-25 °C</p> <p>70 °C</p> <p>To ensure compliance with MTBF value, ensure that the ambient temperature is less than 50 °C for 90 % of operating time and screw the control unit onto a metallic mounting surface in a manner that ensures thermal conductivity or use standard rail mounting. At operating temperatures above 50 °C, the maximum output current of the 24 V DC output is a maximum of 0.1 A and the maximum number of cycles is 60/h.</p>
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> • Storage, min. • Storage, max. 	<p>-40 °C</p> <p>85 °C</p>
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> • Installation altitude above sea level, max. 	2 000 m
Relative humidity	
<ul style="list-style-type: none"> • No condensation, min. • No condensation, max. 	<p>10 %</p> <p>93 %</p>
Dimensions	
Width	320 mm
Height	60 mm
Depth	80 mm
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