

SIDOOR ATE500E relay Control device for Elevator doors, horizontal, up to 280 kg door weight, 36VDC, 1*RS485, 4*DI, 3*Relay, 1*24VDC Out, -25-+50 °C



General information	
Product type designation	ATE500E RELAY
Optional product expansion	SIDOOR TRANSFORMER (6FB1112-0AT20-2TR0), SIDOOR TRANSFORMER UL (6FB1112-0AT21-2TR0), SIDOOR NT40 (6FB1112-0AT20-3PS0)
Manufacturer's article no. of the usable motor	6FB1203-0AT12-7DA0
Manufacturer's article no. of the usable power supply unit	6FB1112-0AT20-2TR0, 6FB1112-0AT21-2TR0, 6FB1112-0AT20-3PS0
Mean time between failures (MTBF)	19 y
Installation type/mounting	
Installation and mounting instructions	no direct solar radiation, final application-specific requirements must be observed; installation outside a control cabinet only in horizontal mounting position NFPA elevator environment: must be installed in a fire protection enclosure
Supply voltage	
Design of the power supply	Via SIDOOR TRANSFORMER / NT40 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
permissible range, lower limit (DC)	19.2 V

permissible range, upper limit (DC)	38 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

Input current

I _t , min.	30 A ² ·s
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Encoder supply

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

• Output current, max.	400 mA
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Power

Active power input	85 W
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Active power input, max.	540 W
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Active power input (standby mode)	5 W
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Digital inputs

Control inputs isolated	Yes
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Control inputs p-switching	Yes
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Input voltage

• permissible voltage at input, min.	10 V; Observe polarity !
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• permissible voltage at input, max.	28 V; Observe polarity !
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Input current

• for signal "1", min.	3 mA
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• for signal "1", max.	15 mA
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Digital outputs

Relay outputs

Switching capacity of contacts

— at 30 V DC, min.	0.01 A
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— at 30 V DC, max.	1 A
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— at 50 V DC, min.	0.01 A; 50 V DC switching voltage not released for NFPA-relevant countries
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— at 50 V DC, max.	1 A; 50 V DC switching voltage not released for NFPA-relevant countries
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— at 230 V AC, min.	0.01 A
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— at 230 V AC, max.	1 A
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Mechanical data

Opening width of door, min.	0.3 m
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Opening width of door, max.	5 m
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Weight of door, max.	280 kg
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Operating cycle frequency of door, max.	180 1/h
Kinetic energy, max.	75 J
Counterweight	
• with SIDOOR MED280 direct drive, max.	6 kg

Interfaces

Interfaces/bus type	without
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Isolation

Overvoltage category	2
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Degree and class of protection

IP degree of protection	IP20
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Standards, approvals, certificates

Certificate of suitability according to EN 81	Yes
CE mark	Yes
UL approval	Yes
EAC (formerly Gost-R)	Yes
TÜV Inspectorate approval	Yes
TÜV prototype tested	Yes
China RoHS compliance	Yes
Standard for EMC	EN 12015 / EN 12016 / EN 61000-6-2 / EN 61000-6-4 / EN 61326-3-1
Standard for safety	EN 60950-1 / EN 81-20 / UL 61010-1 / UL 61010-2-201 / EN ISO 13849-1 Cat. 2 PL d / IEC 62061: SIL 2

Ambient conditions

Ambient temperature during operation	
• min.	-25 °C
• max.	50 °C
• Remark	Bolt the controller onto a metal mounting surface so that thermal conductivity is ensured

Ambient temperature during storage/transportation	
• Storage, min.	-40 °C
• Storage, max.	85 °C

Altitude during operation relating to sea level	
• Installation altitude above sea level, max.	2 000 m

Relative humidity	
• No condensation, min.	10 %
• No condensation, max.	93 %

Dimensions

Width	320 mm
Height	60 mm
Depth	80 mm

last modified:

06/22/2020