ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT
TÜV SÜD

China

CERTIFICATE

No. Z1GCN 124211 0001 Rev. 01

Holder of Certificate: **Changzhou Power Station Auxiliary Equipment Co., Ltd.**
No. 8, Fengqi Road
Wujin High-tech Industrial Development Zone
213164 Changzhou City
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:

Product: **Actuators**
SND-Z/SND-Q/SND-Z+DQ Series Valve Electric Actuator

Evaluated according to: IEC 61508-1:2010
IEC 61508-2:2010

Certification Rule: GCN_CCB_GR_030CS
Certification Type: Design Assessment + Inspection + Factory inspection + Surveillance

It is certified that the product meets the requirements of certification rule and relevant normative documents. The certification marks shown above can be affixed on the product. It is not permitted to alter the certification marks in any way. In addition, the certificate holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the Testing, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Report no.: 7482459770-001

Valid until: 2027-01-08

Date, 2024-05-31

(Lei Zhang)

TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch * Industry Service *

TÜV SÜD Certification and Testing (China) Co., Ltd. Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi, Jiangsu, P.R. China

China

CERTIFICATE

No. Z1GCN 124211 0001 Rev. 01

Manufacturer: Changzhou Power Station Auxiliary Equipment Co., Ltd.
No. 8, Fengqi Road, Wujin High-tech Industrial Development Zone, 213164 Changzhou City, PEOPLE'S REPUBLIC OF CHINA

Production Facility(ies): Changzhou Power Station Auxiliary Equipment Co., Ltd.
No. 8, Fengqi Road, Wujin High-tech Industrial Development Zone, 213164 Changzhou City, PEOPLE'S REPUBLIC OF CHINA

Brand Name: **CZSND**

Model(s): **Valve Electric Actuator Series: SND-Z/SND-Q/SND-Z+DQ**

Parameters:
System type: Type A
Systematic Capability: SC3
Torque: 50~400 000Nm
Temperature: -50~70℃
Voltage: 24V,48V,72V,84V,110V,220V,250V,380V,400V,415V,420V,440V,460V,480V
Power: 0.09~18.5kW
Safety Function Definition:
SIF: "Correct switching on demand (open to closed and closed to open), in low demand mode of operation"
Max SIL: SIL3

Remarks (1) The Safety Integrity Level (SIL) of the entire Safety Instrumented Function (SIF) must be verified via a calculation of PFDAVG considering the redundant architectures, proof test interval, proof test effectiveness, any automatic diagnostics, average repair time and the specific failure rates of all products included in the SIF. Each subsystem must be checked to assure compliance with the minimum hardware fault tolerance (HFT) requirements. (2) Considering an automatic Partial Stroke Test.

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT
TÜV SÜD

TÜV SÜD Certification and Testing (China) Co., Ltd. Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi, Jiangsu, P.R. China