

(1) **CERTIFICATE OF CONFORMITY**
No. JSHP/50/CZ/2022

issue 1

(2) Name and address of the authorized representative:

ELENCO sp. z o.o.
ul. Przemysłowa 7
28-300 Jędrzejów, Poland

Name and address of the manufacturer:

TGOOD GERMANY GmbH
Daimler Street 2
41836 Hueckelhoven

(3) Product name:

Gas insulated MV switchgear

Type:

TGS

- (4) This certificate applies only to the evaluation, examination and tests of the represented product type on the basis of a certification program type 1a – PR-1a (acc. to PN-EN ISO/IEC 17067).
- (5) This certificate can be used as a basis to declare that the following manufactured copies of products comply with the requirements specified in the certificate.
- (6) Assessment, list of documents and test reports, that are the basis for issuing this certificate, have been included in a confidential product assessment report No. JSHP/RW/50/CZ/22/U1/AP.
- (7) This certificate can be distributed only in an unchanged format. Partial reproduction and distribution of this certificate is prohibited.
- (8) This certificate is valid from 28.12.2022 to 27.07.2025.



Damian V...
Kierownik
Jednostki Certyfikującej



HAMILTON

Siemianowice Śl., 28th December 2022

J.S. Hamilton Poland Sp. z o.o.
Certification Body
 ul. Wyzwolenia 14
 41-103 Siemianowice Śląskie



AC 149

(9) Data necessary for identification of the product type:

TGS gas insulated MV switchgear is designed for the distribution of electricity in 12 kV and 24 kV networks. Power-distributing bays are equipped with switching apparatus placed in a sealed stainless steel tank filled with SF₆ gas and / or vacuum circuit breakers meeting the requirements of the relevant standards for switching apparatus.

Technical parameters of the switchgear declared by the manufacturer:

Rated voltage U_r	12 kV	24 kV	
Rated frequency (f_r) – number of phases	50; 60 Hz / 3		
Power-frequency withstand voltage (1 min) (U_d) at pressure SF ₆ = 0,0 MPa	to earth and between phases	28 kV	50 kV
	across the isolating distance	32 kV	60 kV
Rated lightning impulse withstand voltage U_p (1,2/50µs)	to earth and between phases	75 kV	125 kV
	across the isolating distance	85 kV	145 kV
Rated test voltage of the power cable line U_{ct} (AC) 0,1Hz	18 kV	35 kV	
Rated continuous current of the fields I_r	630 A	630 A	
Rated peak withstand current I_p	up to 65 kA	up to 52 kA	
Rated short-time withstand current I_k	up to 25 kA, 1s up to 20 kA, 3s	up to 20 kA, 1s up to 20 kA, 3s	
Rated closed-loop breaking current I_{loop}	up to 630 A		
Rated cable-charging breaking current $C1 I_{cc}$	up to 200A		
Rated transient current of the transformer bay $I_{transfer}$	1300 A		
Rated earth fault breaking current I_{ef1}	up to 30 A		
Rated cable- and line-charging breaking current under earth fault conditions I_{ef2}	up to 17,3 A		
Withstand for internal arcing fault I_A	20 kA/1s		
Degree of enclosure protection	IP3X		
Degree of protection against mechanical impacts	IK10		
Class of the circuit-breaker: E3, C2, M2, S1; Rated operating sequence: 0-0,3s-CO-180s-CO; Switch disconnector class: E3, M2, C2; Earthing switch class: E2, M1; Disconnector class: M1; Loss of Service Continuity category: LSC2A; Internal arc classification IAC: AFLR.			



Dariusz Wróbel
 Inżynier
 Jednostki Certyfikującej



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(10) Basis for issuing the certificate:

EN 62271-1:2017
(PN-EN 62271-1:2018-02)

EN 62271-200:2012
(PN-EN 62271-200:2012)

(11) The certificate remains valid provided that the obligations stipulated in the agreement No. JSHT/141/U/2022 are observed.

(12) Document history:

- Certificate No. JSHP/50/CZ/2022 of 28.07.2022 - issue 0
 - Certificate No. JSHP/50/CZ/2022 of 28.12.2022 - issue 1 supersedes the certificate No. JSHP/50/CZ/2022 issue 0 of 28.07.2022
- The product was assessed for compliance with the requirements of the standard EN 62271-1:2017.



Damian Węgrzyn
Kierownik
Jednostki Certyfikującej



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Siemianowice Śl., 28th December 2022