



Product Service

CERTIFICATE

No. B 105620 0048 Rev. 00

Holder of Certificate: Zhejiang Tengen Electric Co., Ltd.
Sulv Industrial Area, Liushi Town
325604 Yueqing City
PEOPLE'S REPUBLIC OF CHINA

Certification Mark:



Product: Switch-disconnector

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification 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

Test report no.: 874102502996-00

Valid until: 2030-10-22

Date, 2025-10-24

(Hongbo Zhu)

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Model(s):

TGW5FGDC-xHUy

'x' means maximum current range, can be 2500, 3200, 4000;

'y' means breaking code, can be H or omit; H stands for high short-time withstand, omit stands for normal short-time withstand

Parameters:

Rated impulse withstand

voltage U_{imp} :

12kV

Rated insulation voltage U_i :

1600V

Rated operational voltage U_e :

DC1500V

Rated operational current I_e :

TGW5FGDC-2500HU, TGW5FGDC-2500HUH: 1600A
2000A, 2500A;
TGW5FGDC-3200HU, TGW5FGDC-3200HUH: 1600A
2000A, 2500A, 2900A, 3200A;
TGW5FGDC-4000HU, TGW5FGDC-4000HUH: 1600A
2000A, 2500A, 2900A, 3200A, 3600A, 4000A

Conventional free air thermal
current I_{th} :

TGW5FGDC-2500HU, TGW5FGDC-2500HUH: 2500A;
TGW5FGDC-3200HU, TGW5FGDC-3200HUH: 2500A
(for $I_e=1600A, 2000A, 2500A$), 4000A (for $I_e=2900A, 3200A$);
TGW5FGDC-4000HU, TGW5FGDC-4000HUH: 4000A

Utilization category:

DC-22A, DC-23A, DC-PV2

Number of poles:

2P appearance

Rated short-time withstand
current I_{cw} :

TGW5FGDC-2500HU, TGW5FGDC-3200HU,
TGW5FGDC-4000HU: 100kA/1s, 150kA/0.2s;
TGW5FGDC-2500HUH, TGW5FGDC-3200HUH,
TGW5FGDC-4000HUH: 100kA/1s, 165kA/0.2s

Rated short-circuit making
capacity I_{cm} :

100kA

Degree of protection:

IP40 on operation panel, after installation

Suitability for isolation:

Yes

Information of matched auxiliary
contacts:

4NO4NC

U_i : 690V, U_{imp} : 6kV, I_{th} : 6A;

AC-15: AC400V/0.9A, AC230V/1.5A;

DC-13: DC220V/0.27A, DC110V/0.55A

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Remark:

$U_{imp}=15kV$ is additionally evaluated according to IEC TS 62993:2017 and IEC 60664-1:2020. When installing / inserting with the equipment, all requirements of the mentioned test standard shall be fulfilled.

Tested according to:

EN IEC 60947-3:2021
EN IEC 60947-1:2021