

TGS-40.5

Compact and innovative by design

Get greater versatility and a compact footprint with TGS gas-insulated switchgear for secondary distribution

TGOOD

Energy, Fast!

tgood.com

Safety through innovation

TGS-40.5 is a compact, innovative gas-insulated switchgear rated up to 40.5 kV and 1250 A, with an internal arc withstand of up to 31.5 kA/1s. TGOOD can fit a total of four functions in one tank for maximum versatility.

TGS-40.5 was designed with safety in mind for both the operators and the equipment. The HV conductive parts of the RMU are placed in insulating inert gas which is sealed inside a stainless steel tank. It has a

relatively narrow footprint compared to other products on the market and can easily evolve with your electrical distribution set-up.

All of these innovations make TGS-40.5 the logical choice for a wide variety of modern applications. Whether serving as a ring main unit in a secondary public distribution network or as a switchboard for industrial or infrastructure networks, it delivers world-class performance with a minimal cost of ownership.



CB630/1250A

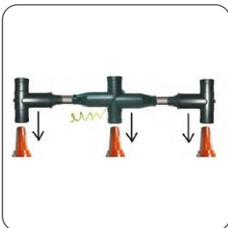
The TGS range is continually being improved upon. It contains TGOOD's CB630/1250A, a fast reclosing vacuum circuit breaker: O - 0.3 s - CO - 180 s - CO. The V unit is only 500 mm wide and is extensible on both sides.



Maximum continuity of service

TGS-40.5 has an innovative, elegantly simple design which ensures maximum continuity of service.

- > LSC1-class continuity of service
- > Key live parts are sealed for life in a stainless steel, SF₆-filled tank, making them impervious to environmental conditions. SF₆-free also available
- > No maintenance of tank-sealed parts during product lifetime
- > Flood-proof design



Easy to install and operate

With the narrowest footprint on the market and easy extensibility, TGS-40.5 cuts the time and effort needed to set up an electrical network.

- > Compact size makes installation easy
- > Spacious cable compartment for MV cable connection
- > Easy to extend through connection device



Engineered for safety

The design of TGS-40.5 puts safety first, ensuring the highest level of security for personnel and equipment.

- > TGS meets the key national or international standards currently in force: IEC, GB
- > Internal arc withstand of up to 31.5 kA/1s, AFLR
- > Hot gas release away from operator in the unlikely event of an internal arc, thanks to pressure valves and a rear duct
- > Integrated interlocks ensuring fool-proof protection
- > A comprehensive range of key- and padlocking options



Smart grid-ready

Electrical networks are evolving to handle distributed generation and renewable energy applications. TGS is built to evolve along with them.

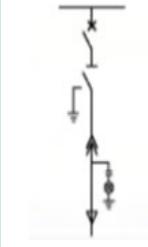
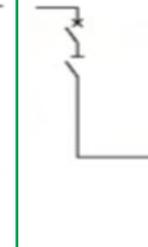
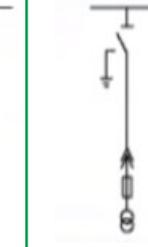
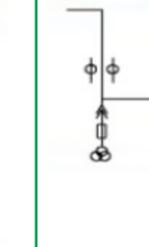
- > Remote control and monitoring capability, with open communications and an auto-transfer switch, thanks to the remote terminal unit
- > Enhanced power availability or restoration through the CB's O-C-O fast reclosing function
- > Variety of fault passage indicators, including directional fault indicators

Flexible in form and function

Technical characteristics

		C	V
Rated voltage	kV	40.5	40.5
Rated frequency	Hz	50	50
Rated withstand voltage at 50 Hz 1 min between poles and to earth	kV	95/118	95/118
Rated withstand voltage lightning impulse between poles and to earth	kV	185/215	185/215
Short time withstand current value (2 s)	kA rms	25	-
Short time withstand current value (4 s)	kA rms	20	31.5
Short time current peak value	kAp	80	80
Rated busbar current	A	630, 1250	630, 1250
IAC classification according to IEC 62271-200 (AFLR)	kA 1s	20	31.5

Main functional units

Names	C	V	CL	VL	P	M
Functions	Cable incoming or outgoing feeder with load switch	Transformer/line protection with vacuum circuit-breaker	Bus coupler with load switch	Bus coupler with vacuum circuit-breaker	VT switchgear	Metering switchgear
Mimic diagrams						

Approximate dimensions and weights for selected configurations

Version	Function	Number of functional units	Height (mm)	Depth (mm)	Width (mm)	Weight (kg)
TGS panel	C	1	2300	1000	500	650
	V	1	2300	1000	500	700
	P	1	2300	1000	800	600
	CV	2	2300	1000	1000	1350
	C+D	2	2300	1000	1000	1250
	V+D	2	2300	1000	1000	1300
	CCV	3	2300	1000	1500	2000
	CCVV	4	2300	1000	2000	2700
WWW	4	2300	1000	2000	2800	

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