



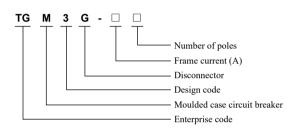
1 Overview

TGM3G series disconnector (hereinafter referred to as disconnector) is suitable for AC 50Hz circuit with rated insulation voltage 1000V, rated working voltage 400V and below and rated current up to 800A for isolation in the low-voltage power generation, transmission, and power distribution line as obvious break points. It is widely used in many power distribution applications such as new energy, power, steel & iron, metallurgy, building, petrochemical, and rail transport. With its small size, anti-vibration, and environmental protection, it is an ideal electrical element in power distribution and transmission.

The disconnector can be perpendicularly installed (and vertically installed), and can be horizontally installed (and laterally installed).

Isolation function symbol: _____ Standard: IEC 60947-1 and IEC 60947-2





3 Technical Parameters

Basic Information										
Frame curre	ent (Ith)	125	250	400	800					
Number of	poles	3P、4P	3P、4P	3P、4P	3P、4P					
Frequency	(Hz)	50	50	50	50					
Rated working vo	oltage Ue (V)	400	400	400	400					
Rated insulation v	oltage Ui (V)	1000	1000	1000	1000					
Rated impulse with Uimp (l	c	8	8	12	12					
Rated working c	urrent Ie (A)	16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A	100A, 125A, 140A, 160A, 180A, 200A, 225A, 250A	225A, 250A, 315A, 350A, 400A	630A, 700A, 800A					
Rated short-time withstand current Icw (A) / 1s		2000	3500	5000	10000					
Rated short-circuit breaking capacity Icm (A)		3000	6000	7650	17000					
Usage cat	egory	AC-22A	AC-22A	AC-22A	AC-22A					
Service	Mechanical	40000	40000	20000	20000					
life(times)	Electrical	8000	8000	7500	7500					
Accessory Information										
Terminals of tran	sition busbar	■ (standard)	■ (standard)	■ (standard)	■ (standard)					
Transition to	erminal	\Box (Optional)	□ (Optional)	□ (Optional)	□ (Optional)					



		TGM3G-125	TGM3G-250		
TGM3G ser	ies disconenctor				
Numb	er of poles	3P, 4P	3P, 4P		
	current (Ith) A	125A	250A		
Frequ	ency (Hz)	50	50		
Rated workir	ng voltage Ue (V)	400	400		
Rated cu	urrent In (A)	16, 20, 25.32, 40, 50, 63, .80, 100, 125	100, 125, 140, 160, 180, 200, 22 250		
	on voltage Ui (V)	1000	1000		
Uir	withstand voltage np (kV)	8	8		
Icw	e withstand current (A) / s	2000/1	3500/1		
	uit breaking capacity m (A)	3000 6000			
Usage	e category	AC-22A	AC-22A		
Service life(times)	Mechanical	Without maintenancein20000 With mainteance 40000	Without maintenancein20000 With mainteance 40000		
Electrical		8000	8000		
	transition busbar	(Standard)	(Standard)		
Transiti	on terminal	(Optional) TGM3G-400	☐ (Optional) TGM3G-800		
TGM3G ser	ies disconenctor				
	er of poles	3P, 4P	3P, 4P		
	current (Ith) A	400	800		
	ency (Hz)	50	50		
	ng voltage Ue (V) urrent In (A)	400 225, 250, 315, 350, 400	400 630, 700, 800		
	on voltage Ui (V)	1000	1000		
Rated impulse	withstand voltage np (kV)	12	12		
Rated short-tim	he withstand current (A) / s	5000/1	10000/1		
Rated short-circ	uit breaking capacity m (A)	7650	17000		
	e category	AC-22A	AC-22A		
Service	Mechanical	Without maintenancein10000 With mainteance 20000	Without maintenancein10000 With maintenance 20000		
life(times)	Electrical	7500	7500		
Terminals of	transition busbar	■ (Standard) ■ (Standard)			
Terminars Of			□ (Optional)		



4 Operating Conditions

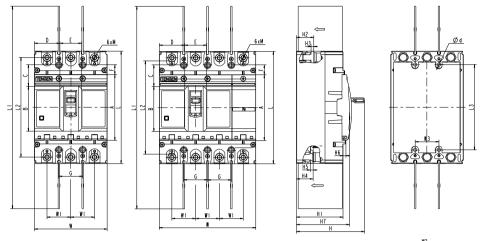
- 4.1 Temperature
- 4.1.1The ambient air temperature does not exceed +40°C, the lower limit is -5°C, and the mean temperature within 24h does not exceed +35°C.
- 4.1.2In special environment: The lower limit of temperature is not below -25°C, and the upper limit does not exceed +55°C.
- 4.2 Altitude
- 4.2.1The altitude at the installation site where the product works normally does not exceed 2,000 meters.
- 4.2.2If the altitude exceeds 2,000 meters, the altitude coefficient derating is required, or contact our company.
- 4.3 Humidity
- 4.3.1 The relative air humidity does not exceed 50% at the maximum ambient temperature +40°C, and a higher relative humidity is allowed at a low temperature.
- 4.3.2The maximum mean relative humidity of the wettest month does not exceed 90%, and the monthly minimum mean temperature of this month does not exceed +25°C.
- 4.2.3The influence of condensation occurred on the product surface due to temperature changes to the product performance shall be considered.
- 4.4 Pollution degree:3
- 4.5 Usage and installation
- 4.5.1"1", "3", "5", and "N" are incoming terminals and "2", "4", "6", and "N" are outgoing terminals of disconnector; the vertical installation is required rather than reverse installation or reverse wiring connection.
- 4.5.2The inclination of product installation in each direction does not exceed $\pm 5^{\circ}$.
- 4.5.3 Main circuit installation category is Class III; the installation category is Class II if not connected to the aux. circuit and control circuit of main circuit
- 4.5.4 The external magnetic field near the disconnector installation site shall not exceed 5 times earth's magnetic field in any direction

5 Outline and Installation Dimensions

Model	Number	Outline dimensions (mm)											
widdei	of poles	L	L1	L2	L4	L5	W	W1	W2	Н		H2	H3
TGM3G-125	3	151.6	253	132.5	8	164	93	30	18	99	65	25	3
10/050-125	4	151.0	255	152.5	0	104	122	50	10	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	H1 65 69 99 103	25	5
TGM3G-250	3	165 3	300	146.6	12	180	107	35	23.5	100	69	25	4
1010130-230	4		500				142						4
TGM3G-400	3	257 465 224 13 285	465	224	12	295	150	48	33	150	00	39	5
100150-400	4		283	198	40	33	150	99	39	5			
TC) (20, 000	3		490	243	15	303	210	70	45	155	103	40	6
TGM3G-800	4	281					280	70					6

Model	Number		Outline dimensions (mm)												Installation dimensions (mm)																
	of poles	H4	H5		H7				D			G	L3	W3	Φd																
TGM3G-125	3	3	25	3	,	78	96	66	33	32	28	16	20	129	30	415															
100050-125	4	23	3		/0	90	00	33	32	28	10	30	129	60	Φ4,5																
TOMAC 250	GM3G-250 3 4	25 4	25	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	79	97	67	31	37	33	14	35	125	35	Φ5
1GM3G-250			4	4	/9	97	07	/ 51	57	33	14	35	125	70	Ψ3																
TCM2C 400	3	38	2.5	5	114	155	109	46	46	58	20	44	194	44	4 7																
TGM3G-400	4	38	2.5	5	114	155	109	46	46	58	20	94	194	94	Φ7																
TC1 (20, 000	3	42	6	6	121	175	115	66	72	66	22	70	242	70	Ф 7																
TGM3G-800	4	42	6	0	121	175	115	00	00 /2	00	33	/0	243	140	Φ7																







6 Selection of Sectional Area of Connecting Busbar and Cable

Rated current (A)	16 20	25	32	40 50	63	80	100	125 140	160	180 200 225	250	315 350	400
Sectional area of wire (mm ²)	2.5	4	6	10	16	25	35	50	70	95	120	185	240

	Ca	ble	Copper busbar				
Rated current (A)	Sectional area (mm ²)	Qty.	Size	Qty.			
500	150	2	30×5	2			
600	185	2	40×5	2			
700 800	240	2	50×5	2			



7 Operation and With maintenance

7.1 Various features of disconnector are set by the company, and cannot be adjusted without permission during operation.

- 7.2 Disconnector handle can be in three positions indicated with ON, OFF, Trip states, respectively. When the handle is turned to the Trip position, pull the handle backwards to activate the switch for power-on.
- 7.3 The manufacturer will be responsible for replacement or repair of circuit breaker free of charge for any damage or abnormal operation due to poor quality within 24 hours from the shipment date under the premise that user complies with the storage and operation conditions and that the product is well sealed.

8 Ordering Notice

Please specify the following items when ordering:

- a)Model, name, number of poles of disconnector;
- b)Rated current of disconnector;

c)Quantity.

For example: To order TGM3G-250, 3-pole, rated current 225A, 20 pcs. Please specify: TGM3G-250/3P, 225A, 20 pcs.