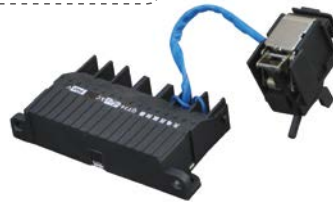


- 1 Switch body
- 2 Flame extinguishing chamber (selected and purchased by customer)
- 3 Plug-in type (selected and purchased by customer)
- 4 Arc isolating sheet (standard)
- 5 Zero flashover hood (selected and purchased by customer)
- 6 Undervoltage release (selected and purchased by customer)
- 7 Shunt release (selected and purchased by customer)
- 8 Alarm contacts (selected and purchased by customer)
- 9 Aux. contacts (selected and purchased by customer)
- 10 Leakage alarm module (selected and purchased by customer)
- 11 Front-panel transition plate (selected and purchased by customer)
- 12 Motor mechanism (selected and purchased by customer)
- 13 Rotary handle operating mechanism (selected and purchased by customer)



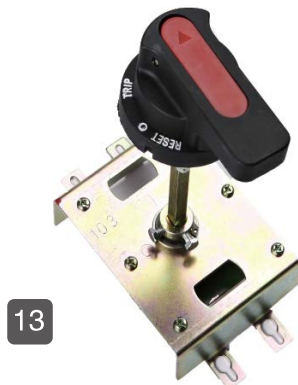
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7



13



12



TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

Four-pole product code views



Without overcurrent release

A type: N pole is not equipped with an overcurrent trip element, and the N pole is always closed and is open and closed not together with other three poles.



Without overcurrent release

B type: N pole is not equipped with an overcurrent trip element, and the N pole is open and closed together with other three poles (N pole is first closed and then open)



With overcurrent release

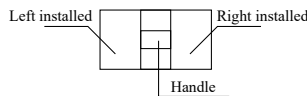
C type: N pole is equipped with an overcurrent trip element, and the N pole is open and closed together with other three poles (N pole is first closed and then open)



With overcurrent release

D type: N pole is equipped with an overcurrent trip element, and the N pole is always closed, and is open and closed not together with other three poles.

Release and Accessory Code



Alarm contact ● Aux. contact ○
Shunt release ■ Undervoltage release ▲

Table 2

Accessory name	Accessory code		Accessory installation and lead-out mode					
	Electromagnetic release	Complex release	TGM3L-125		TGM3L-250		TGM3L-400 TGM3L-630 TGM3L-800	
			3P	4P	3P	4P	3P	4P
No accessory	200	300						
Alarm contact	208	308						
Shunt release	210	310						
Aux. contact	220	320						
Undervoltage release	230	330						
Shunt release Aux. contact	240	340						
Shunt release Undervoltage release	250	350						
Two sets of aux. contacts	260	360						
Aux. contact Undervoltage release	270	370						
Shunt release Alarm contact	218	318						
Aux. contact Alarm contact	228	328						
Undervoltage release Alarm contact	238	338						
Shunt release Aux. contact Alarm contact	248	348						
Two sets of aux. contacts Alarm contact	268	368						
Undervoltage release Aux. contact Alarm contact	278	378						

*Notes:

- 200 (electromagnetic release), refer to the circuit breaker body only with an electromagnetic release; that is, there is only a short circuit protection and no overload protection characteristic;
- 300 (complex release), refer to the circuit breaker body with a thermodynamic + electromagnetic release; that is: with overload and short circuit protection characteristic;
- One set of below 400 auxiliary contacts include one normally open and one normally closed contact, and one set of 400 and above auxiliary contacts include two normally open and two normally closed contacts.

TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

3 Technical Parameters

3.1 Technical parameters see Table 3

Table 3

Basic parameters																
Frame rated current		125			250			400			630			800		
Number of poles		3P、3P+N、4P			3P、3P+N、4P			3P、3P+N、4P			3P、3P+N、4P			3P、3P+N、4P		
Frequency (Hz)		50			50			50			50			50		
Rated operating voltage U _e (V)		400			400			400			400			400		
Rated insulation voltage U _i (V)		800			800			1000			1000			1000		
Rated impulse withstand voltage U _{imp} (kV)		8			8			12			12			12		
Rated current I _n (A)		16A、20A、25A 32A、40A、50A 63A、80A、100A 125A			100A、125A 140A、160A 180A、200A 225A、250A			225A、250A 315A、350A 400A			400A、500A 600A、630A			400A、500A 600A、630A 700A、800A		
Breaking capacity		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Rated ultimate short circuit breaking capacity I _{cu} (kA)	AC400V	35	50	65	35	50	65	50	65	85	50	65	85	50	65	85
	Rated Operating short circuit breaking capacity I _{cs} (kA)	26	50	50	26	50	50	35	65	65	35	65	65	35	65	65
Isolation function		Yes(3P、4P)			Yes(3P、4P)			Yes(3P、4P)			Yes(3P、4P)			Yes(3P、4P)		
Usage category		Class A			Class A			Class A			Class A			Class A		
Flashover distance (mm)	With flashover distance	≤50			≤50			≤100			≤100			≤100		
	Zero flashover	0			0			0			0			0		
Mechanical life (times)	With maintenance	20000			20000			10000			10000			8000		
	Without maintenance	40000			40000			20000			20000			10000		
Electrical life (times)		10000			10000			8000			8000			7500		
Rated residual operating current value I _{Δn} (mA)	Non-delay type	30/50/75/100 /150/200/300 /400/500			30/50/75/100 /150/200/300 /400/500			50/75/100/150 /200/300/400 /500/600/800/1000			50/75/100/150 /200/300/400/500 /600/800/1000			50/75/100/150 /200/300/400/500 /600/800/1000		
	Delay type	50/75/100/150 /200/300/400 /500			50/75/100/150 /200/300/400 /500			50/75/100/150 /200/300/400 /500/600/800/1000			50/75/100/150 /200/300/400/500 /600/800/1000			50/75/100/150/ 200/300/400/500/ 600/800/1000		
Accessory information																
Operation directly via handle		■(Standard)			■(Standard)			■(Standard)			■(Standard)			■(Standard)		
Extended rotary handle		□(Optional)			□(Optional)			□(Optional)			□(Optional)			□(Optional)		
Motor mechanism		□(Optional)			□(Optional)			□(Optional)			□(Optional)			□(Optional)		
Shunt release		□(Optional)			□(Optional)			□(Optional)			□(Optional)			□(Optional)		
Undervoltage release		□(Optional)			□(Optional)			□(Optional)			□(Optional)			□(Optional)		
Aux. contact		□(Optional)			□(Optional)			□(Optional)			□(Optional)			□(Optional)		
Alarm contact		□(Optional)			□(Optional)			□(Optional)			□(Optional)			□(Optional)		
Fixed type front-panel		■(Standard)			■(Standard)			■(Standard)			■(Standard)			■(Standard)		
Fixed type back-panel		□(Optional)			□(Optional)			□(Optional)			□(Optional)			□(Optional)		
Plug-in type front-panel (optional not for 4P product)		□(Optional)			□(Optional)			□(Optional)			□(Optional)			□(Optional)		
Plug-in type back-panel		□(Optional)			□(Optional)			□(Optional)			□(Optional)			□(Optional)		
Transition busbar		□(Optional)			□(Optional)			□(Optional)			□(Optional)			□(Optional)		
Phase partition		■(Standard)			■(Standard)			■(Standard)			■(Standard)			■(Standard)		
Handle lock		□(Optional)			□(Optional)			□(Optional)			□(Optional)			□(Optional)		
Zero flashover hood		□(Optional)			□(Optional)			□(Optional)			□(Optional)			□(Optional)		

Note: The optional zero flashover accessory is installed to realize zero flashover.

TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

3.2 Inverse time limit characteristics of circuit breaker used for power distribution see Table 4

Table 4

Test current name	Setting current multiple	Appointed time		Starting state
		$I_n \leq 63A$	$I_n > 63A$	
Conventional non-trip current	1.05 I_n	$\geq 1h$	$\geq 2h$	Cold state
Conventional trip current	1.30 I_n	$< 1h$	$< 2h$	Hot state

Note: Hot state usually refers to the state that the conventional non-trip current is sustained until the appointed time expires.

3.3 Inverse time limit characteristics of circuit breaker used for motor protection see Table 5

Table 5

Test current name	Setting current multiple	Appointed time	Starting state
Conventional non-trip current	1.0 I_n	$\geq 2h$	Cold state
Conventional trip current	1.2 I_n	$< 2h$	Hot state

Note: Hot state usually refers to the state that the conventional non-trip current is sustained until the appointed time expires.

3.4 Short circuit protection characteristics of circuit breakers

The set value of the instantaneous action characteristics of circuit breakers used for power distribution is $10I_n \pm 20\%$.
The set value of the instantaneous action characteristics of circuit breakers used for motor protection is $12I_n \pm 20\%$.

3.5 The residual current protection action time of general (non-delay) products is shown in Table 6

Table 6

Residual current		$1\Delta n$	$2I\Delta n$	$5I\Delta n(a)$	$10I\Delta n(b)$
Non-delay type	Max. breaking time (s)	0.2	0.15	0.04	0.04

Notes: (a) For residual current protection circuit breaker with $1\Delta n \leq 30mA$, $5I\Delta n$ can be replaced by 0.25A;
(b) If replaced by 0.25A in Item (a), $10I\Delta n$ is 0.5A.

3.6 The residual current protection action time of the delay type products is shown in Table 7

Table 7

Delay time (s) (Selected by user)	Max. breaking time at $1\Delta n$ (s)	At $2I\Delta n$		Max. breaking time at $5I\Delta n$ (s)	Max. breaking time at $10I\Delta n$ (s)
		Ultimate non-drive time (s)	Max. breaking time (s)		
0.1	0.3	0.1	0.3	0.25	0.25
0.2	0.4	0.2	0.4	0.35	0.35
0.3	0.5	0.3	0.5	0.45	0.45
0.4	0.6	0.4	0.6	0.55	0.55
0.5	0.7	0.5	0.7	0.65	0.65
0.6	0.8	0.6	0.8	0.75	0.75
0.7	0.9	0.7	0.9	0.85	0.85
0.8	1	0.8	1	0.95	0.95

4 Operating Conditions

4.1 Temperature

4.1.1 The ambient air temperature does not exceed $+40^\circ C$, the lower limit is $-5^\circ C$, and the mean temperature within 24h does not exceed $+35^\circ C$.

4.1.2 Used in special environment: The lower limit of the temperature is not below $-25^\circ C$, and the upper limit does not exceed $+55^\circ C$.

4.1.3 When the ambient temperature is greater than $+40^\circ C$ or below $-5^\circ C$, the derating is required according to the temperature compensation coefficient or contact us.

4.2 Altitude

4.2.1 The altitude at the installation site where the product works normally does not exceed 2000m.

4.2.2 If the altitude exceeds 2000m, the derating is required according to the altitude coefficient or contact us.

4.3 Humidity

4.3.1 The relative humidity of atmosphere does not exceed 50% at the maximum ambient temperature $+40^\circ C$, and higher relative humidity can be allowed at lower temperatures

4.3.2 The maximum mean relative humidity does not exceed 90% in the wettest month, and the monthly mean minimum temperature in that month does not exceed $+25^\circ C$.

4.3.3 The influence of the condensation occurred on the product surface due to temperature changes on the product performance shall be considered.

4.4 Pollution degree: 3.

4.5 Installation category: III.

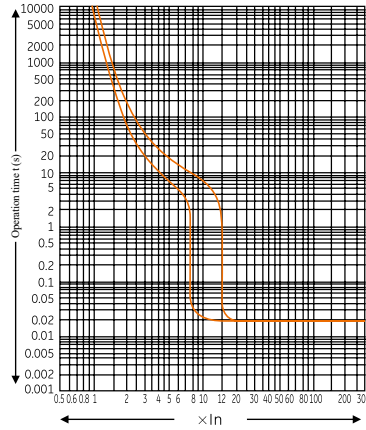
4.6 Installation condition: The vertical inclination of the installed circuit breaker does not exceed 5° .

4.7 External magnetic field: The magnetic field near the circuit breaker installation site shall not exceed 5 times earth's magnetic field in any direction.

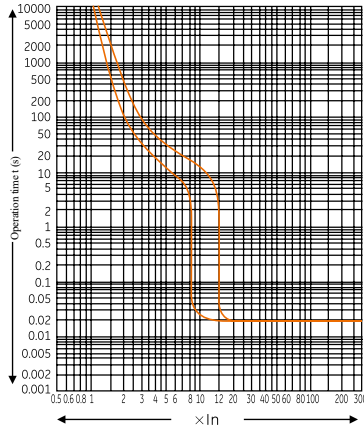
TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

5 Circuit Breaker Protection Characteristic Curve

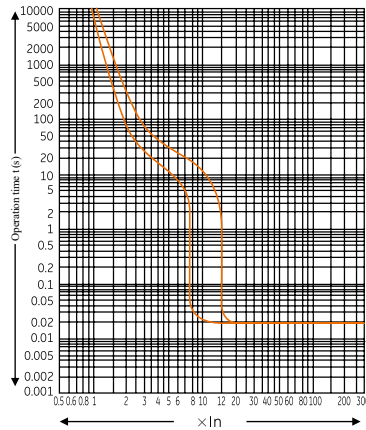
TGM3L-125(L/M/H) time / current characteristic curve



TGM3L-250(L/M/H) time / current characteristic curve

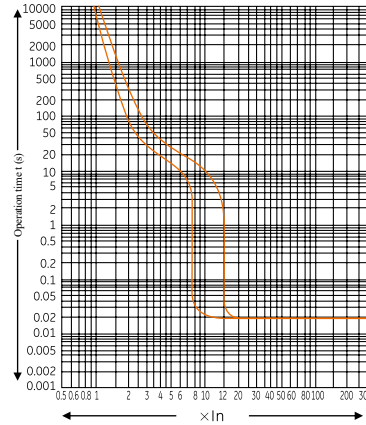


TGM3L-400(L/M/H) time / current characteristic curve

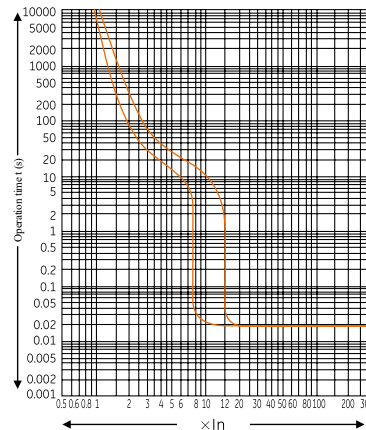


TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

TGM3L-630(L/M/H) time / current characteristic curve



TGM3L-800(L/M/H) time / current characteristic curve



6 Correction Coefficient of Circuit Breaker in Special Environment

6.1 Derating coefficient due to ambient temperature changes sees Table 8

Table 8

Model	Ambient temp. Coefficient				
	+40°C	+45°C	+50°C	+55°C	+60°C
TGM3L-125	1In	0.95In	0.89In	0.84In	0.76In
TGM3L-250	1In	0.95In	0.90In	0.87In	0.82In
TGM3L-400	1In	0.94In	0.87In	0.81In	0.73In
TGM3L-630	1In	0.93In	0.88In	0.83In	0.76In
TGM3L-800	1In	0.92In	0.86In	0.81In	0.75In

6.2 The influence of the altitude changes on the characteristics of circuit breaker sees Table 9

When the altitude exceeds 2000m, the electrical performance of circuit breaker can be corrected according to the table below.

Table 9

Altitude	2000m	3000m	4000m	5000m
Power frequency withstand voltage	3000V	2500V	2000V	1800V
Operating current correction coefficient	1	0.94	0.88	0.83

TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

7 Structure and Working Principle

7.1 Structure

This series circuit breaker is an electronic type current operated type leakage protector, and its main parts include main switch (including overcurrent release), zero sequence current transformer, electronic amplifier parts, leakage release, and test device. All parts are installed in a moulded case.

7.2 Working Principle

In the event of an electric leakage or an electric shock in the protected circuit, a signal is output from the zero sequence current transformer. When this signal output reaches a certain value, the silicon controlled rectifier will be triggered and conducted to activate the leakage release, thereby driving the traction rod to disconnect the operating mechanism in a very short time to cut off power supply, so that the leakage protection is realized. (Working principle sees Fig. 1).

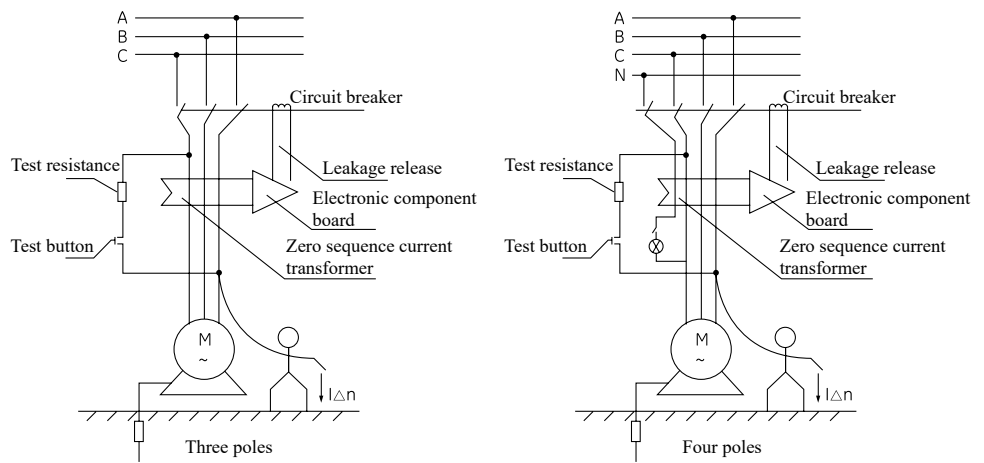


Fig. 1 Working principle


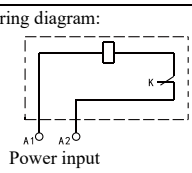
8 Product Accessories

8.1 Product Internal Accessories


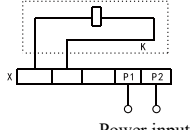
According to the user's needs, the circuit breaker accessory can be directly led out (the length of the wire lead is 50cm, and any special requirements shall be specified when ordering), or a terminal block is added (if the wiring terminal block is required, please specify this when ordering).

TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

- Shunt release (with left installed and left installed)


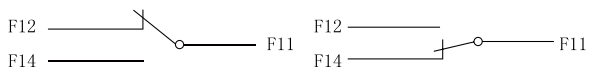
	Rated control supply voltage (Us)	AC: AC220/230V, AC380/400V DC: DC24V, DC110V, DC220V
	Operating voltage	(0.7~1.1)Us
	Wiring diagram:	 <p>Note: K - The micro switch connected to the coil in series in the shunt release is a normally-closed contact; when the circuit breaker is OFF, this contact will open automatically, and is closed when in ON state.</p>
When the rated control power supply voltage is DC24V, the shunt release can be used directly, but the maximum length of 1.5mm ² copper wire (each of the two wires) should be 150m, and of the 2.5mm ² copper wire is 250m; the power supply power at the release terminal must the minimum 50W requirements, or the DC24V intermediate relay is used to control AC230V or AC400V shunt release; the contact capacity of the intermediate relay is not less than 1A.		

- Undervoltage release (left installed and right installed)

	Rated operating voltage (Ue)	AC: AC220/230V, AC380/400V
	Operation characteristics	Trip reliably at 35%~70% rated operating voltage; closed when 85%~110%; prevent being closed when below 35%.
	Wiring diagram:	 <p>Description: X-Wiring terminal block Note: The wiring diagram of the internal accessories of circuit is marked in the dashed box.</p>


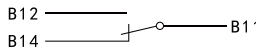
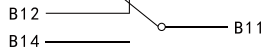
Warning: The undervoltage release must be energized and then the circuit breaker can re-trip and is closed, otherwise this may cause damage to the circuit breaker.

- Aux. contact (left installed and right installed)

	Frame rated current	$I_{nm} \leq 250A$		$I_{nm} \geq 400A$		
	Resistive current Ith	3A		6A		
	Usage category	AC-15	DC-13	AC-15	DC-13	
	Operating voltage	AC380V/400V	DC220V/230V	AC380V/400V	DC220V/230V	
	Rated operating current	0.3A	0.15A	1A	0.15A	
	Wiring diagram:	 <p>State of circuit breaker in "OFF" position</p> <p>State of circuit breaker in "ON" position</p>				

TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

- Alarm contact (left installed and right installed)

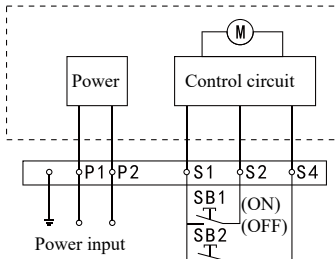
	Resistive current I_{th}	3A
	Rated operating current I_e	Same as aux. contact
Wiring diagram:		
		
State of circuit breaker in "Trip" (Alarm) position		State of circuit breaker in "OFF" or "ON" position

8.2 Product External Accessories

- Motor mechanism:

This accessory is installed on the panel of circuit breaker to electrically control the ON, OFF, and re-trip operations of circuit breaker remotely, suitable for automation control application. The outline dimensions of motor mechanism see Table 10.



Input voltage	AC220V/230V, AC380V/400V	
Wiring diagram		Description: P1 and P2 are external power inputs SB1 and SB2 are operation buttons (provided by user)
Note: The wiring diagram of the internal accessory of motor mechanism is marked in the dashed box.		

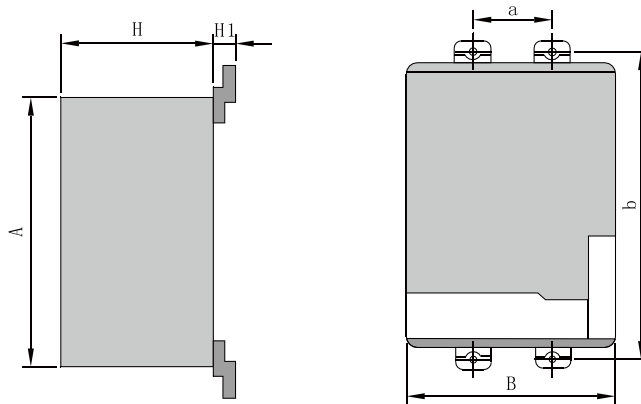


Table 10

Model	A	B	H	H1	a	b
TGM3L-125	116	90	77	22	30	129
TGM3L-250	116	90	77	17	35	126
TGM3L-400	176	130	115	24	44	194
TGM3L-630/800	176	130	115	27	70	243

TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

• Manual mechanism

The outline and installation dimensions of rotary handle see Table 11

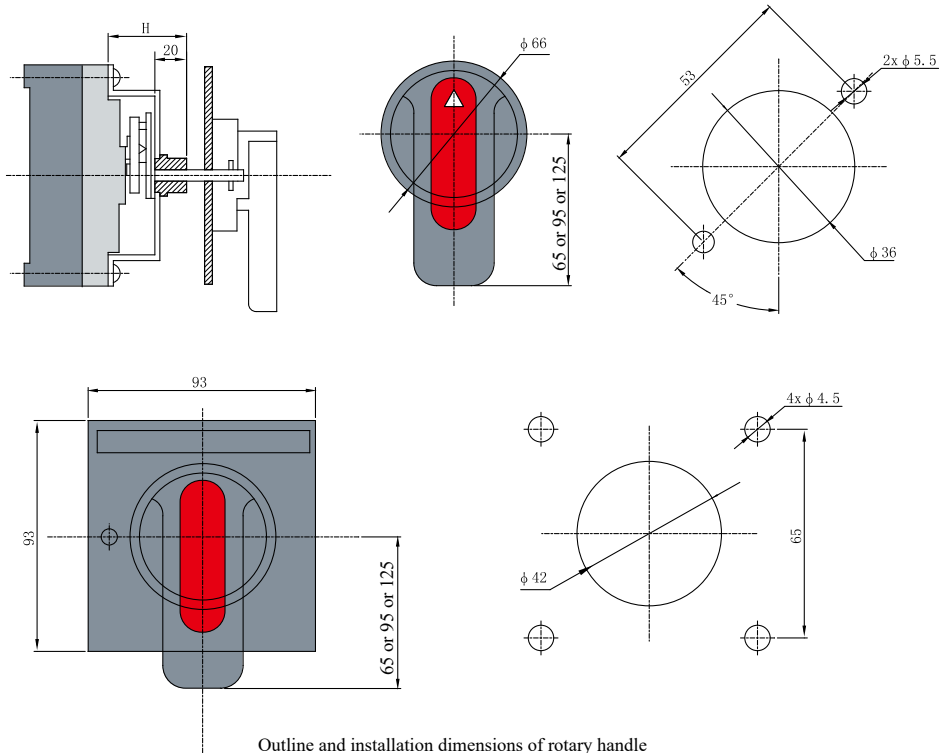


Table 11

Model & Spec.	TGM3L-125	TGM3L-250	TGM3L-400	TGM3L-630/800
Installation dimensions (H)	61	59	87	97

• Leakage alarm module:

Input voltage	AC220/230V、AC380/400V、DC24V
	<p>Wiring diagram:</p> <p>Description: P5-P6: Input power; P1-P2, P3-P4: Contact capacity AC230V, 5A.</p> <p>Note: The wiring diagram of the internal accessory of leakage alarm module is marked in the dashed box.</p>

TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

9 Outline and Installation Dimensions

9.1 The outline and installation dimensions of the product see Table 12 and Fig. 1

Table 12

Model	Number of poles	Outline dimensions (mm)														
		L	L1		L2	L4	L5	W	W1	W2	H	H1	H2	H3		
			Non-zero flashover	Zero flashover												
TGM3L-125L	3	151.5	253	268	132	8	164	93	30	18	99	65	25	3		
	4							123								
TGM3L-125M	3							93								
	4							123								
TGM3L-125H	3							93								
	4							123								
TGM3L-250L	3		165	300	315	146	12	180	107	35	23.5	100	69		25	4
	4								142							
TGM3L-250M	3								107							
	4								142							
TGM3L-250H	3								107							
	4								142							
TGM3L-400L	3	257		465	493	224	13	285	150	48	33	150	99	39	5	
	4								198							
TGM3L-400M	3								150							
	4								198							
TGM3-400H	3								150							
	4								198							
TGM3L-630L	3		281	496	518	243	15	303	212	70	45	155	103	40		6
	4								282							
TGM3L-630M	3								212							
	4								282							
TGM3L-630H	3								212							
	4								282							
TGM3L-800L	3	281		496	518	243	15	303	212	70	45	155	103	40	6	
	4								282							
TGM3L-800M	3								212							
	4								282							
TGM3L-800H	3								212							
	4								282							

TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

Table 12, continued

Model	Number of poles	Outline dimensions (mm)											Installation dimensions (mm)			
		H4	H5	H6	H7	A	B	C	D	E	F	G	L3	W3	φd	
TGM3L-125L	3	25			78										30	Φ4.5
	4															
TGM3L-125M	3	28	3	/	97	96	66	33	32	28	16	30	129		30	
	4															
TGM3L-125H	3														30	
	4															
TGM3L-250L	3	25			79										35	Φ5
	4															
TGM3L-250M	3	23	4	4	95	97	67	31	37	33	14	35	125		35	
	4															
TGM3L-250H	3														35	
	4															
TGM3L-400L	3	38	2.5	5	114	155	109	46	46	58	20		194	44	Φ8	
	4															
TGM3L-400M	3													44		
	4															
TGM3-400H	3													44		
	4															
TGM3L-630L	3	41	5	6	121	175	115	66	72	66	33	70	243		70	Φ7
	4															
TGM3L-630M	3													70		
	4															
TGM3L-630H	3													70		
	4															
TGM3L-800L	3	41	5	6	121	175	115	66	72	66	33	70	243		70	Φ7
	4															
TGM3L-800M	3													70		
	4															
TGM3L-800H	3													70		
	4															

TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

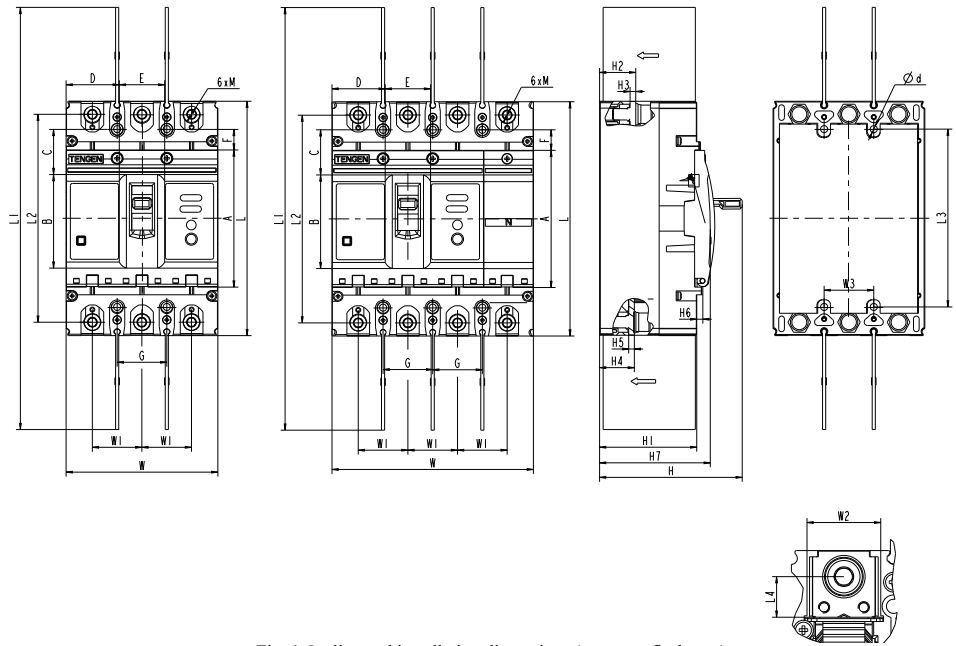


Fig. 1 Outline and installation dimensions (non-zero flashover)

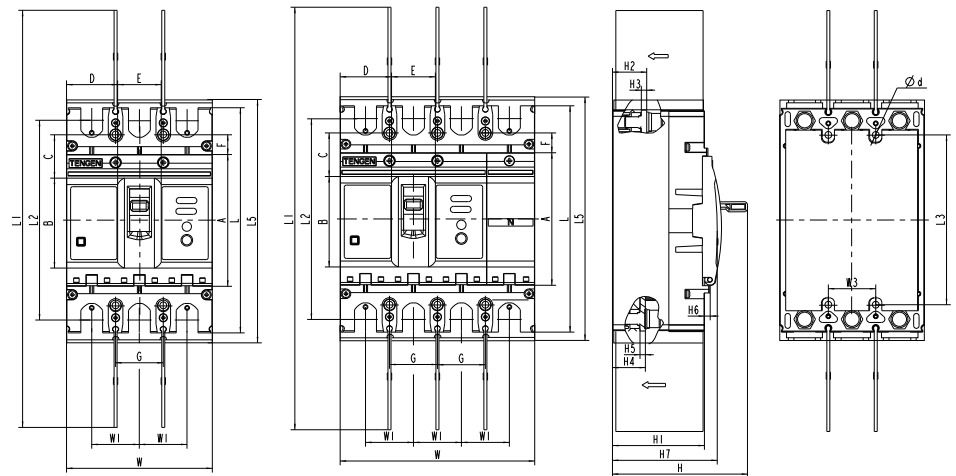


Fig. 2 Outline and installation dimensions (zero flashover)

TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

9.2 The outline and installation dimensions of the front-panel plug-in type see Fig. 3 and Table 13:

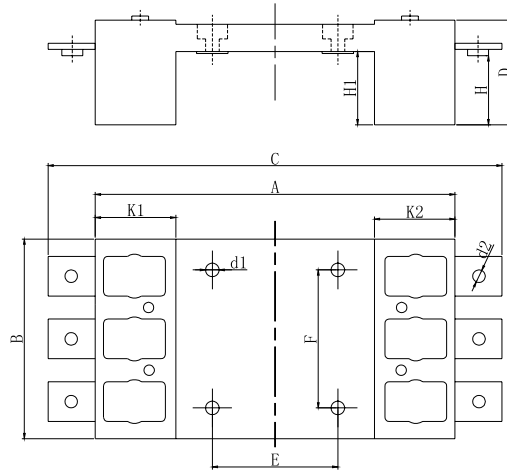
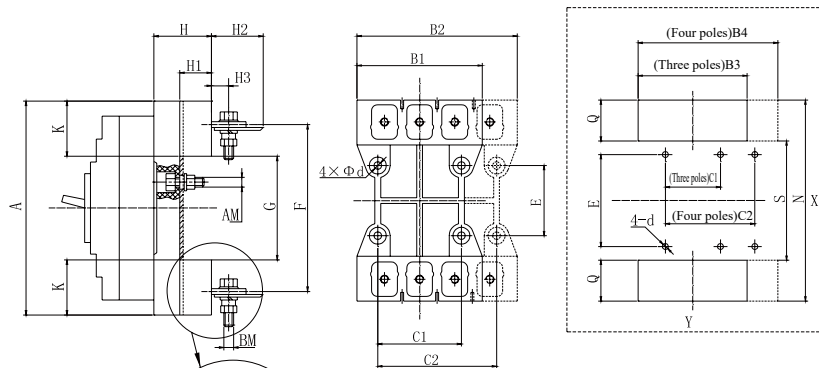


Fig. 3 Front-panel plug-in type outline and installation dimensions

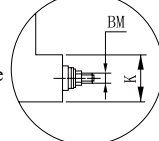
Table 13

Model & Spec.	Installation dimensions											
	A	B	C	D	E	F	H	H1	K1	K2	d1	d2
TGM3L-125	172	96	217	50	60	66	13	35	38	38	7	Φ8
TGM3L-250	183	110	261	51.5	64	70	42.5	35	44	44	7	Φ8
TGM3L-400	276	150	352	80	135	115	31	Flat	Flat	Flat	8.5	Φ11
TGM3L-630/800	305	210	409	87	144	90	16	61	62	62	11	Φ13

9.3 The outline and installation dimensions of the back-panel plug-in type see Fig. 4 and Table 14:



Note: The wiring method of 630/800 type is shown in figure



Size of hole on the mounting plate (unit: mm)

Fig. 4 Outline and installation dimensions for back-panel plug-in type

Table 14

Model & Spec.	Outline and installation dimensions (mm)																			
	A	B1	B2	C1	C2	E	F	G	K	H	H1	H2	N	S	Q	B3	B4	AM	BM	4-d
TGM3L-125	168	91	125	60	90	56	132	92	38	50	33	28	178	82	48	101	135	M6	M8	Φ6.5
TGM3L-250	186	107	145	70	105	54	145	94	46	50	33	37	196	84	56	117	155	M6	M8	Φ6.5
TGM3L-400	280	149	200	60	108	129	224	170	55	60	38	46	290	160	65	159	210	M8	M12	Φ8.5
TGM3L-630/800	305	210	280	90	162	146	242	181	62	87	60	22	315	171	72	220	290	M10	M14	Φ11

TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

10 Ordering Notice

Please specify the following information when ordering:

- The model, name, and number of poles of the circuit breaker.
- The rated current of the circuit breaker.
- Rated residual operating current and breaking time.
- The accessory name, specification, and combination code of the circuit breaker; When the undervoltage release and shunt release are used, the operating voltage (or control power supply voltage) shall be specified.
- Purpose: For power distribution (default: power distribution), motor protection (indicated by 2).
- Quantity.

For example: To order TGM3L-125, three-pole four-wire, circuit breaker with A type, L type breaking capacity for power distribution protection, complex release, rated current 100A, rated residual operating current 100mA/300mA/500mA, non-delay 0.2s, 200 units, please specify TGM3L-125L/3N300A 100A 100mA/300mA/500mA 0.2s 200 units.

For special requirements for circuit breakers, please contact the manufacturer.

11 Quick Selection Example

TGM3L-125L/3N300A 125A 50/200/300mA 0.2s:

To order a TGM3L series 125A frame, 35kA (standard type), rated current 125A three-pole four-wire (that is 3P+N) zero line without protection, circuit breaker for thermal magnetic power distribution protection, residual operating current 50/200/300mA three-gear adjustable, non-delay action type $\leq 0.2s$ circuit breaker.

TGM3L-125M/33002 125A 300mA Non-adjustable 0.2s:

To order a TGM3L series 125A frame, 50kA (middle breaking type), rated current 125A three-pole, circuit breaker for thermal magnetic motor protection, the residual operating current 300mA non-adjustable, non-delay type operation time $\leq 0.2s$ circuit breaker.

TGM3L-125L/3N300A 125A 100/200/300mA 0.3/0.7/0.9s:

Order a TGM3L series 125A frame, 35kA (standard type), rated current 125A three-pole four-wire (that is 3P+N), zero line without protection, circuit breaker for thermal magnetic power distribution protection, residual operating current 100/200/300mA three-gear adjustable, delay type maximum operating time 0.3/0.7/0.9s three-gear adjustable circuit breaker.

Note: If special customized products are required, please contact our company.

TGM3L Series Moulded Case Circuit Breakers with Earth Leakage Protection-Thermal Magnetic A/AC Type

12 TGM3L Quick Selection Table

TGM3L	A	125	L	Z	4	3	10	2	A	F	I	125A	100/300/500mA	0.4s	AC230V	B	W	Plateau	Other
Product model	Residual current operation type	Frame rated current	Breaking capacity	Operation method	Number of poles	Release type	Internal accessory	Purpose	N pole code	Additional information	Alarm module	Rated current	Residual operating current	Purpose	N pole code	Additional information	Alarm module	Rated current	Residual operating current
TGM3L Moulded Case Circuit Breaker with Earth Leakage Protection	Default: AC type Code A: A type	125: 125A	L: Standard type	Default: Operation directly	3-Three poles	2: Short circuit protection	00: No accessory 10: Shunt release 20: Aux. contact 30: Under-voltage 40: Shunt + Aux.	Default: Power distribution protection	A: Three protective poles, the zero line is disconnected together with other poles	F: Prepaid	I: Leakage alarm and trip	16A 800A	30mA/50mA/75mA/100mA/200mA/300mA/400mA/500mA/600mA/800mA/1000mA	Non-delay: 0.2S-0.1S	AC380/400V AC220/30V DC110V DC24V	Default: Fixed front-panel	No code-with flashover distance	Default: Conventional application	Handle lock
		250: 250A	M: Middle type	Z: Operation via rotary handle	3N: 3P+N	B: Overload + Short circuit	50: Shunt + Under-voltage 60: Two sets of aux. contacts 70: Under-voltage + Aux. 80: Alarm contact	Prod2: Motor protection	B: Three protective poles, the zero line is disconnected together with other poles		III: Leakage alarm and non-trip		30mA only for 125A and 250A frames; No 30mA product for the delay type switch	Delay type: 0.3/0.4/ 0.5/0.6/ 0.7/0.8/ 0.9/1S	Multiple accessory voltages are described separately if any (for example: AC230V, undervoltage AC400V)	B: Fixed back-panel	W-zero flashover	Plateau Drop and high Environmental protection Salt spray Low temperature	
		400: 400A	H: High breaking type	P: Operation via motor	4: 4 poles		18: Shunt + Alarm 28: Aux. + Alarm 38: Under-voltage + Alarm 48: Shunt + Alarm + Aux.		C: Four protective poles, the zero line is disconnected together with other poles		No code: No this accessory		Three gears adjustable can be selected or any fixed gear is selected	Any adjustable three gears are selected or one fixed gear		C: Plug-in back-panel			
		630: 630A					68: Two sets of aux. + Alarm 78: Under-voltage + Aux. + Alarm		D: Four protective poles, the zero line is disconnected together with other poles							F: Plug-in front-panel			
		800: 800A																	