MAXGE
Intelligence beyond vision

Committed to becoming a world-class intelligent electric brand

Moulded Case Circuit Breaker

ISO9001 ISO14001 OHSAS18001

CCC VDE KEMA EUR DEKRA ASTA TÜVRheinland CERTIFIED INTERTEK S CE CB INMETRO BUREAU VERITAS

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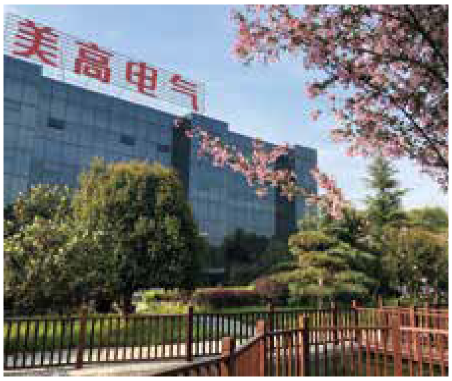
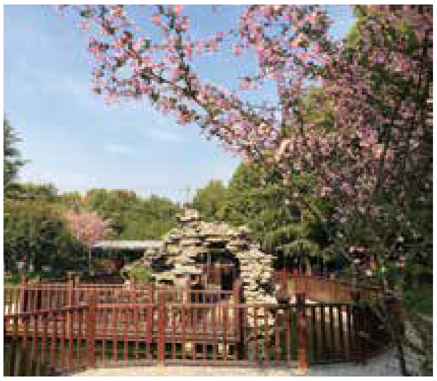




ABOUT US

MAXGE Electric is one of the most specialized manufacturers and exporters for modular electric terminal devices for household and similar installations in China. The wide range products under manufacturing covers Miniature Circuit Breaker(MCB),Residual Current Circuit Breaker(RCCB),Residual Current Circuit Breakers With Overcurrent Protection (RCBO),Switch-disconnector,Distribution Box, Moulded Case Circuit Breaker(MCCB)，Air Circuit Breaker(ACB),AC Contactor,Magnetic Starter,Motor Protection Circuit Breaker,Thermal Relay and K.W.H meter etc. The company takes the reputation as one of the largest manufacturers of electro-magnetic type RCCB and RCBO.OEM or ODM projects are fully accepted, currently the company is co-operating with a number of renowend international corporations for such projects.

MAXGE Electric possesses full line of high-tech production equipment and great strength of technology support besides advanced designation forces powered by the first class engineering teams with super industrial computer systems.Thus, our products are novel in design, excellent in workmanship and top reliable in quality.

R&D CENTER AUTOMATIC PRODUCTION LINE

Experience in manufacturing under customer’ s design,trade,building project, OEM and competitive cooperation related to the new products & technology. Won approvals of CE, SEMKO, KEMA, VDE, FI, CCC, ASTA, INMETRO and ISO9001 Quality System Certificate etc.Products are popular around the world, such as Europe, America, Southeast Asia, Middle East, Africa, etc.

THE BRAND CULTURE OF MAXGE

MAXGE

Brand Interpretation

Chinese Name: Mei Gao
Mei: Pursue perfection
Gao: Ascend to virtue
English Name: MAXGE
MAX: Maximum
GE: Global Electric

Corporate Vision

Committed to becoming a world-class intelligent electric brand

Corporate Mission

Smart Manufacturing
Smart Electric
Smart Life

Corporate Values

Pursue perfection
Ascend to virtue

Brand Slogans

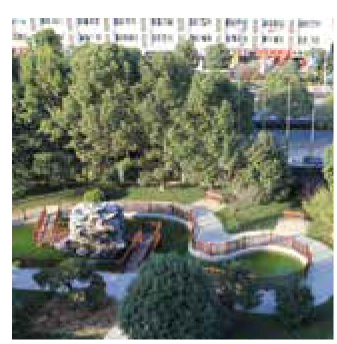
Survive on quality
Develop on innovation
Focus on customers

Product Concept

Secure and Reliable
Energy saving and Environment protection
Technology innovation
Artificial intelligence

Corporate Spirit

Integrity
Focus
Pragmatism
Innovation



Contents

Ratings And Specifications

MAXGE

SGM6-125

SGM3-160

SGM3-250

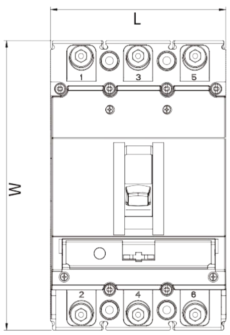
KEMA EUR CE CB

Moulded Case
Circuit Breaker

Fixed Type

Frame Size	125A			160A		250A	
Model	SGM6-125			SGM3-160		SGM3-250	
Number of poles	3,4			3,4		3,4	
Rated current(A) In	16,20,25,32,40,50,60,63,70,75,80,90,100,125			16,20,25,30,32,40,50,60,63,70,75,80,90,100,125,140,150,160		100,125,140,150,160,175,180,200,225,250	
Standard	IEC60947-2						
Reference temperature	40°C/55°C						
Rated operational voltage	380/400/415V AC						
Rated insulation voltage Ui (VAC)	800						
Rated impluse withstand voltage Uimp (kV)	8						
Breaking capacity level	L	M	H	L	M	L	M
Rated ultimate short-circuit breaking capacity Icu(kA)	10	25	36	36	50	36	50
Rated service short-circuit breaking capacity Ics(kA)	10	18	25	27	36	27	36
Mechanical Endurance Electrical Endurance	8500 1500			8500 1500		7000 1000	
Accessories							
Auxiliary contact(OF)	■			■		■	
Alarm switch(SD)	■			■		■	
Shunt tirp(MX)	■			■		■	
Under-voltage release(MN)	■			■		■	
AC Motor Mechanism	■			■		■	
Extended Rotary Handle	■			■		■	
Dimensions mm(L×W×H) 3P	75x133x82			L:92x150x90 M:92x150x110		L:106x165x109 M:107x165x127	
Dimensions mm(L×W×H) 4P	100x133x82			L:122x150x90 M:122x150x110		L:141x165x109 M:141x165x127	

"■" shows it has this option; "-" means it has no this option.



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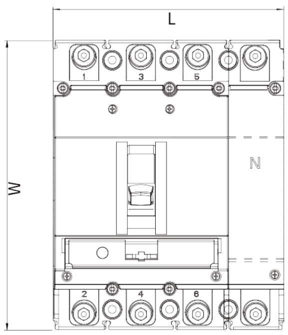

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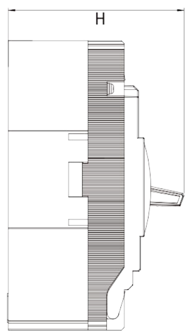

Ratings And Specifications

MAXGE

02

Moulded Case
Circuit Breaker

Fixed Type

SGM6-400

SGM6-630

SGM3-800
SGM6-800

KEMA KEUR CE CB

Frame Size	400A		630A		800A		1250A
Model	SGM6-400		SGM6-630		SGM3-800 SGM6-800		SGM1-1250
Number of poles	3,4		3,4		3,4		3
Rated current(A) In	250,280,300, 315,350,400		400,500,550, 630		630,700,770, 800		800,1000, 1250
Standard	IEC60947-2						
Reference temperature	40°C/55°C						
Rated operational voltage	380/400/415V AC						
Rated insulation voltage Ui (VAC)	1000						800
Rated impluse withstand voltage Uimp (kV)	8						
Breaking capacity level	M	H	M	H	M	H	M
Rated ultimate short-circuit breaking capacity Icu(kA)	85	100	85	100	85	100	65
Rated service short-circuit breaking capacity Ics(kA)	60	75	60	75	60	75	32.5
Mechanical Endurance Electrical Endurance	4000 1000		4000 1000		2500 500		2500 500
Accessories							
Auxiliary contact(OF)	■		■		■		■
Alarm switch(SD)	■		■		■		■
Shunt tirp(MX)	■		■		■		■
Under-voltage release(MN)	■		■		■		■
AC Motor Mechanism	■		■		■		■
Dimensions mm(L×W×H) 3P	150x257x148		150x257x148		210x280x155		210x330x137
Dimensions mm(L×W×H) 4P	198x257x148		198x257x148		280x280x155		

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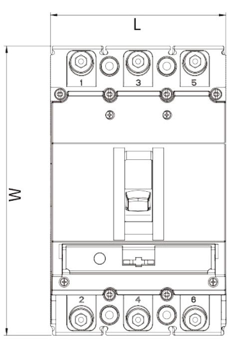

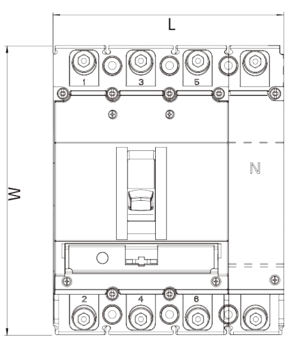

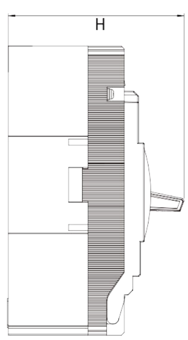

Moulded Case
Circuit Breaker

Thermal Adjustable Type

SGM6s-125

SGM3S-160

SGM3S-250

Frame Size	125A			160A		250A	
Model	SGM6s-125			SGM3S-160		SGM3S-250	
Number of poles	3,4			3,4		3,4	
Rated current(A) In	32,40,50,60,63, 70,75,80,90,100, 125			16,20,25,30,32, 40,50,60,63,70, 75,80,90,100, 125,140,150,160		100,125,140, 150,160,175, 180,200,225, 250	
Thermo-adjustable setting Ir(xIn)	0.8/0.9/1.0						
Standard	IEC60947-2						
Reference temperature	40°C/55°C						
Rated operational voltage	380/400/415VAC						
Rated insulation voltage Ui (V)	800						
Rated impluse withstand voltage Uimp (kV)	8						
Breaking capacity level	L	M	H	L	M	L	M
Rated ultimate short-circuit breaking capacity Icu(kA)	10	25	36	36	50	36	50
Rated service short-circuit breaking capacity Ics(kA)	10	18	25	27	36	27	36
Mechanical Endurance Electrical Endurance	8500 1500			8500 1500		7000 1000	
Fixed magnetic trip	■			■		■	
Accessories							
Auxiliary contact(OF)	■			■		■	
Alarm switch(SD)	■			■		■	
Shunt tirp(MX)	■			■		■	
Under-voltage release(MN)	■			■		■	
AC Motor Mechanism	■			■		■	
Extended Rotary Handle	■			■		■	
Dimensions mm(L×W×H) 3P	75x133x82			L:92x150x90 M:92x150x110		L:106x165x109 M:107x165x127	
Dimensions mm(L×W×H) 4P	100x133x82			L:122x150x90 M:122x150x110		L:141x165x109 M:141x165x127	

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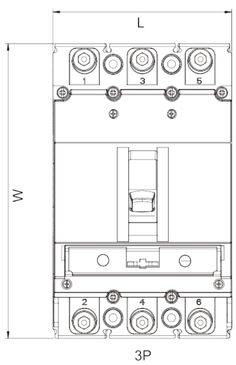

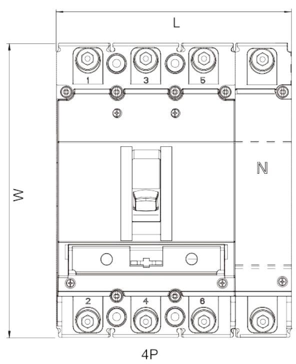

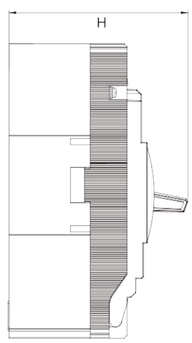

MAXGE

SGM6s-400

SGM6s-630

SGM3S-800
SGM6s-800

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Moulded Case Circuit Breaker — Thermal Adjustable Type

Frame Size	400A		630A		800A	
Model	SGM6s-400		SGM6s-630		SGM3S-800 SGM6s-800	
Number of poles	3,4		3,4		3,4	
Rated current(A) In	250,280,300, 315,350,400		400,500,550, 630		630,700,770, 800	
Thermo-adjustable setting Ir(xIn)	0.8/0.9/1.0					
Standard	IEC60947-2					
Reference temperature	40°C/55°C					
Rated operational voltage	380/400/415VAC					
Rated insulation voltage Ui (VAC)	1000					
Rated impluse withstand voltage Uimp (kV)	8					
Breaking capacity level	M	H	M	H	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	85	100	85	100	85	100
Rated service short-circuit breaking capacity Ics(kA)	60	75	60	75	60	75
Mechanical Endurance Electrical Endurance	4000 1000		4000 1000		2500 500	
Fixed magnetic trip	■		■		■	
Accessories						
Auxiliary contact(OF)	■		■		■	
Alarm switch(SD)	■		■		■	
Shunt tirp(MX)	■		■		■	
Under-voltage release(MN)	■		■		■	
AC Motor Mechanism	■		■		■	
Dimensions mm(L×W×H) 3P	150x257x148		150x257x148		210x280x155	
Dimensions mm(L×W×H) 4P	198x257x148		198x257x148		280x280x155	

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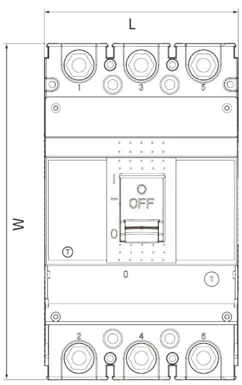

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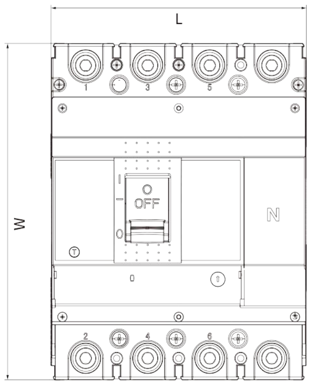

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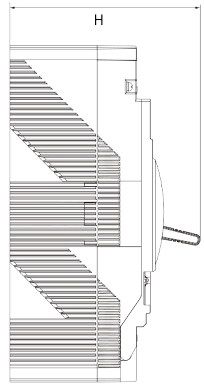

MAXGE

SGM6sm-125

SGM6sm-400

SGM6sm-630

SGM6sm-800

Moulded Case Circuit Breaker

Thermal & Magnetic Adjustable Type

Frame Size	125A			400A		630A		800A	
Model	SGM6sm-125			SGM6sm-400		SGM6sm-630		SGM6sm-800	
Number of poles	3,4			3,4		3,4		3,4	
Rated current(A) In	32,40,50,60, 63,70,75,80, 90,100,125			250,280,300, 315,350,400		400,500,550, 630		630,700,770, 800	
Magnetic-adjustable setting Ii(xIn)	5/8/10 or 8/10/12								
Thermo-adjustable setting Ir(xIn)	0.8/0.9/1.0								
Standard	IEC60947-2								
Reference temperature	40°C/55°C								
Rated operational voltage	380/400/415VAC								
Rated insulation voltage Ui (V)	800								
Rated impluse withstand voltage Uimp (kV)	8								
Breaking capacity level	L	M	H	M	H	M	H	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	10	25	36	85	100	85	100	85	100
Rated service short-circuit breaking capacity Ics(kA)	10	18	25	60	75	60	75	60	75
Mechanical Endurance Electrical Endurance	8500 1500			4000 1000		4000 1000		2500 500	
Accessories									
Auxiliary contact(OF)	■			■		■		■	
Alarm switch(SD)	■			■		■		■	
Shunt tirp(MX)	■			■		■		■	
Under-voltage release(MN)	■			■		■		■	
AC Motor Mechanism	■			■		■		■	
Dimensions mm(L×W×H) 3P	75x133x82			150x257x148		150x257x148		210x280x155	
Dimensions mm(L×W×H) 4P	100x133x82			198x257x148		198x257x148		280x280x155	

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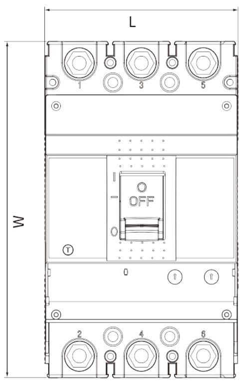

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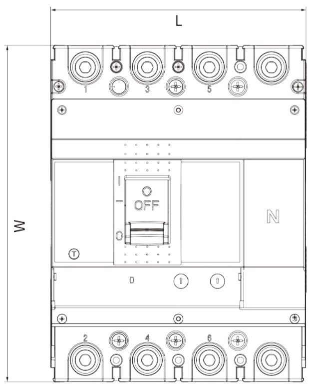

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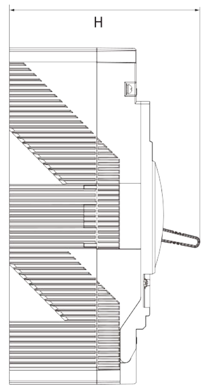
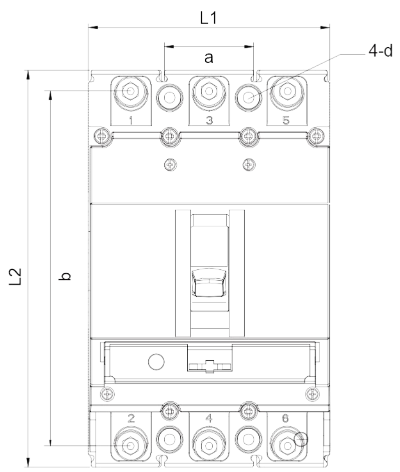


KEMA KEUR CE CB

Outline And Installation Dimension

Applicable frame size	Poles	Outline Dimension				Installation Dimension		
		L1	L2	L3	L4	a	b	d
SGM6/6s/6sm-125L	3	75	133	82	66.5	25	111	Ø3.5
	4	100	133	82	66.5	50	111	Ø3.5
SGM6/6s/6sm-125M	3	75	133	82	66.5	25	111	Ø3.5
	4	100	133	82	66.5	50	111	Ø3.5
SGM6/6s/6sm-125H	3	75	133	82	66.5	25	111	Ø3.5
	4	100	133	82	66.5	50	111	Ø3.5
SGM3/3S-160L	3	92	150	90	72	30	129	Ø4.5
	4	122	150	90	72	60	129	Ø4.5
SGM3/3S-160M	3	92	150	110	90	30	129	Ø4.5
	4	122	150	110	90	60	129	Ø4.5
SGM3/3S-250L	3	106	165	109	91	35	126	Ø4.5
	4	141	165	109	91	70	126	Ø4.5
SGM3/3S-250M	3	107	165	127	109	35	126	Ø4.5
	4	141	165	127	109	70	126	Ø4.5
SGM6/6s/6sm-400M	3	150	257	148	114	44	194	Ø7
	4	198	257	148	114	88	194	Ø7
SGM6/6s/6sm-400H	3	150	257	148	114	44	194	Ø7
	4	198	257	148	117	88	194	Ø7
SGM6/6s/6sm-630M	3	150	257	148	120	44	194	Ø7
	4	198	257	148	120	88	194	Ø7
SGM6/6s/6sm-630H	3	150	257	148	120	44	194	Ø7
	4	198	257	148	120	88	194	Ø7
SGM3/3S-800M	3	210	280	155	125	70	243	Ø7
SGM6/6s/6sm-800M	4	280	280	155	125	140	243	Ø7
SGM3/3S-800H	3	210	280	155	125	70	243	Ø7
SGM6/6s/6sm-800H	4	280	280	155	125	140	243	Ø7
SGM1-1250M	3	210	330	191	137	70	299	Ø9



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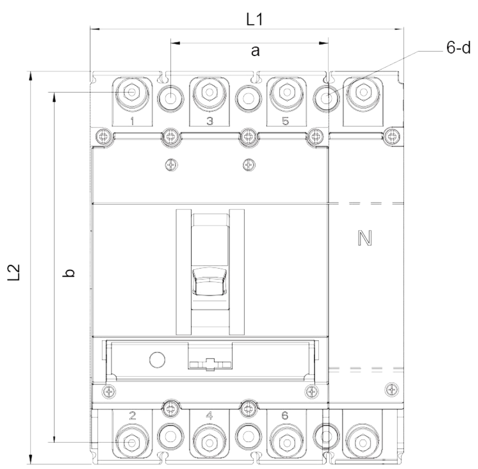

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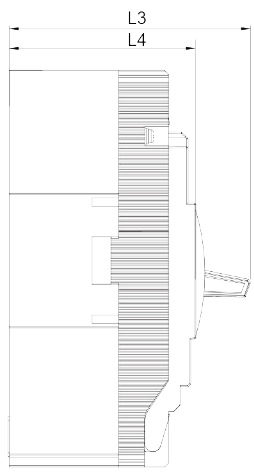
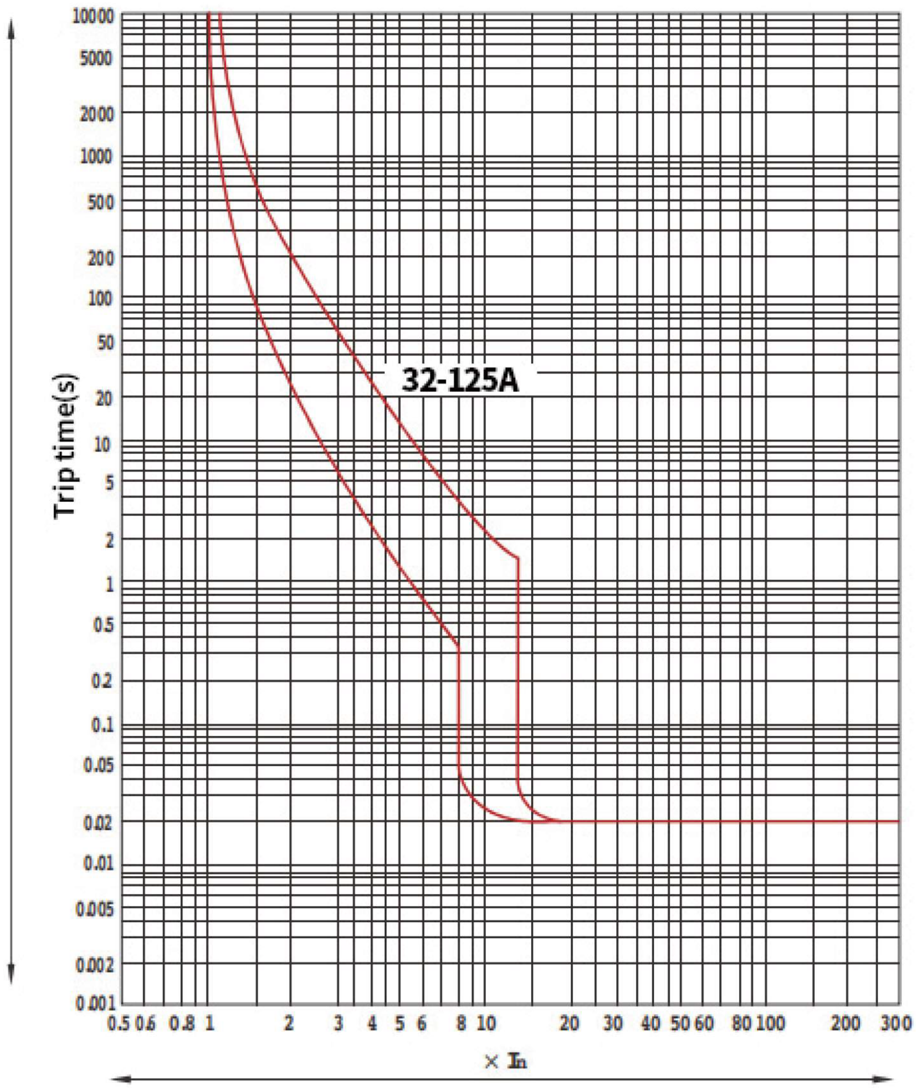
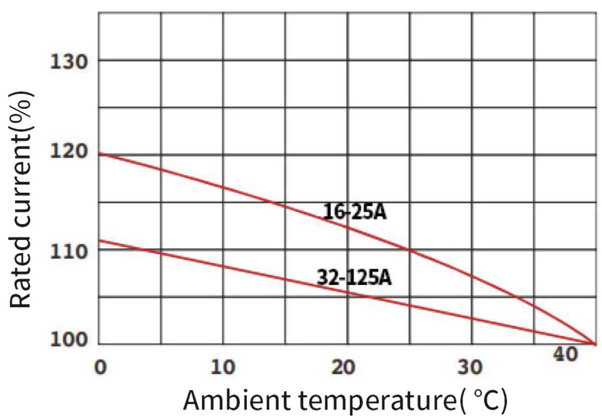


SGM6-125 Time current characteristic curve



Note:SGM3-125 the instantaneous action current of 16-25A is 300A± 20%

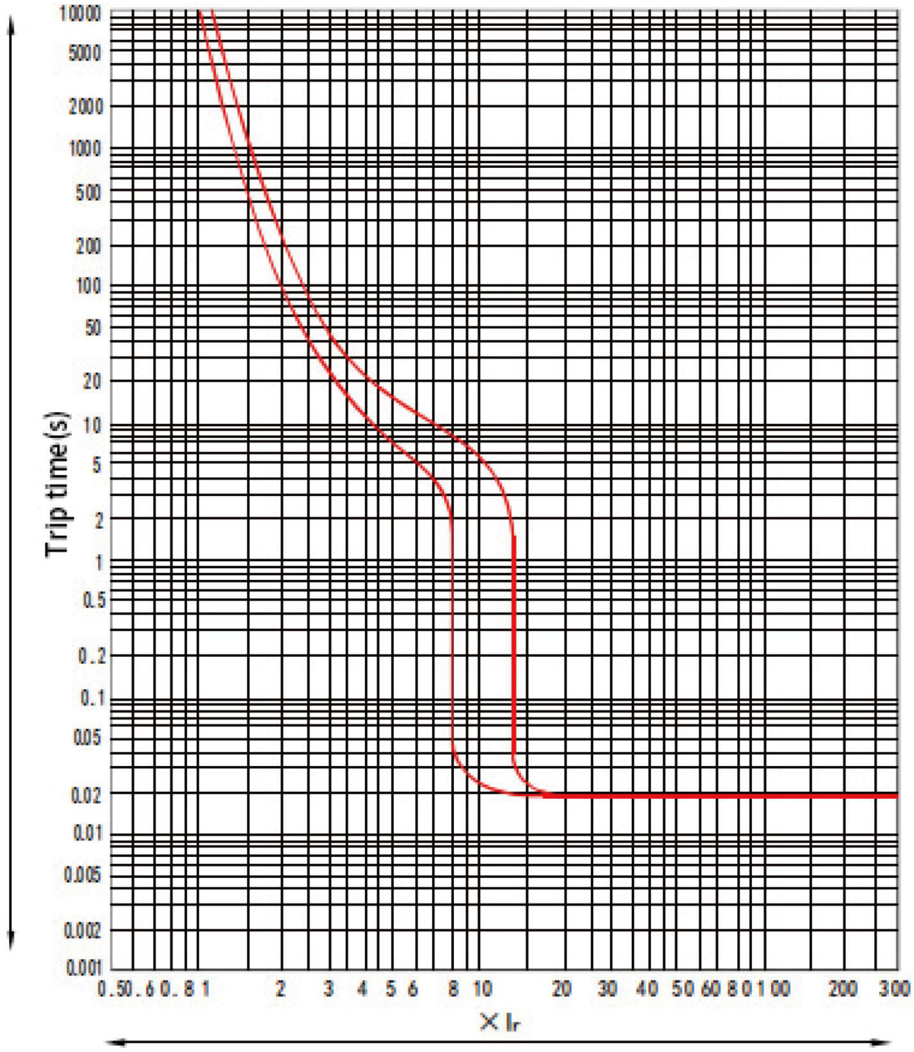
Current-temperature characteristics



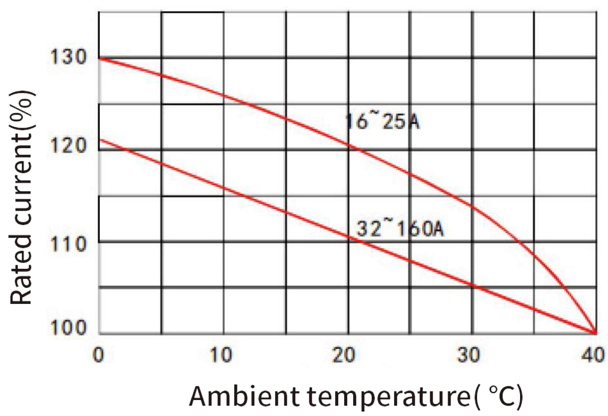
Temperature compensation coefficient chart

MAXGE

SGM3-160 Time current characteristic curve



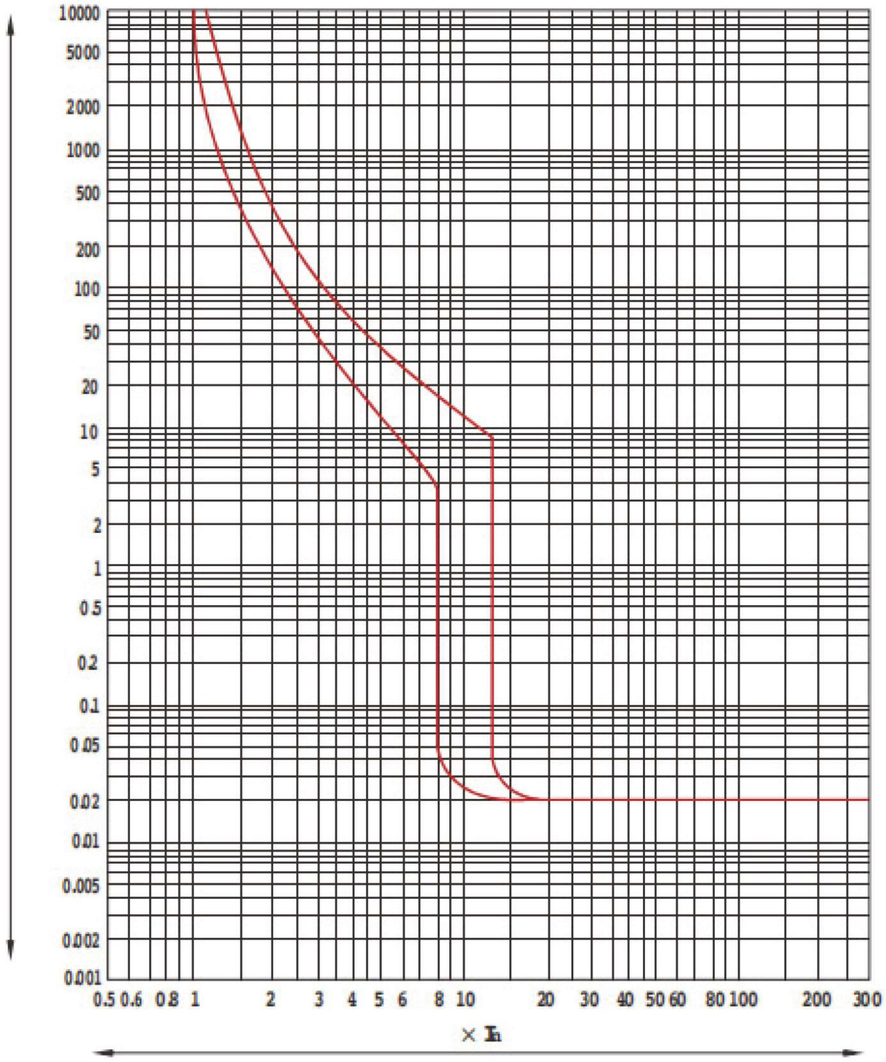
Current-temperature characteristics



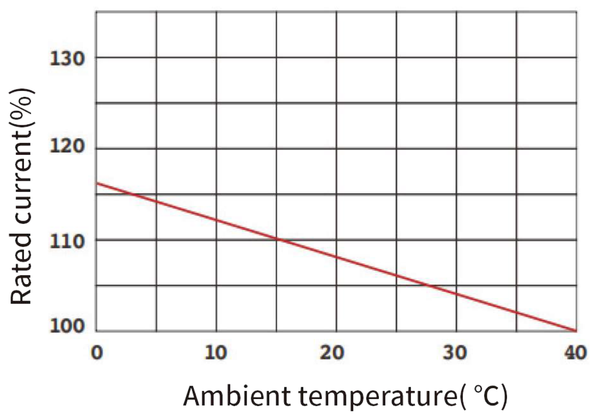
Temperature compensation coefficient chart

MAXGE

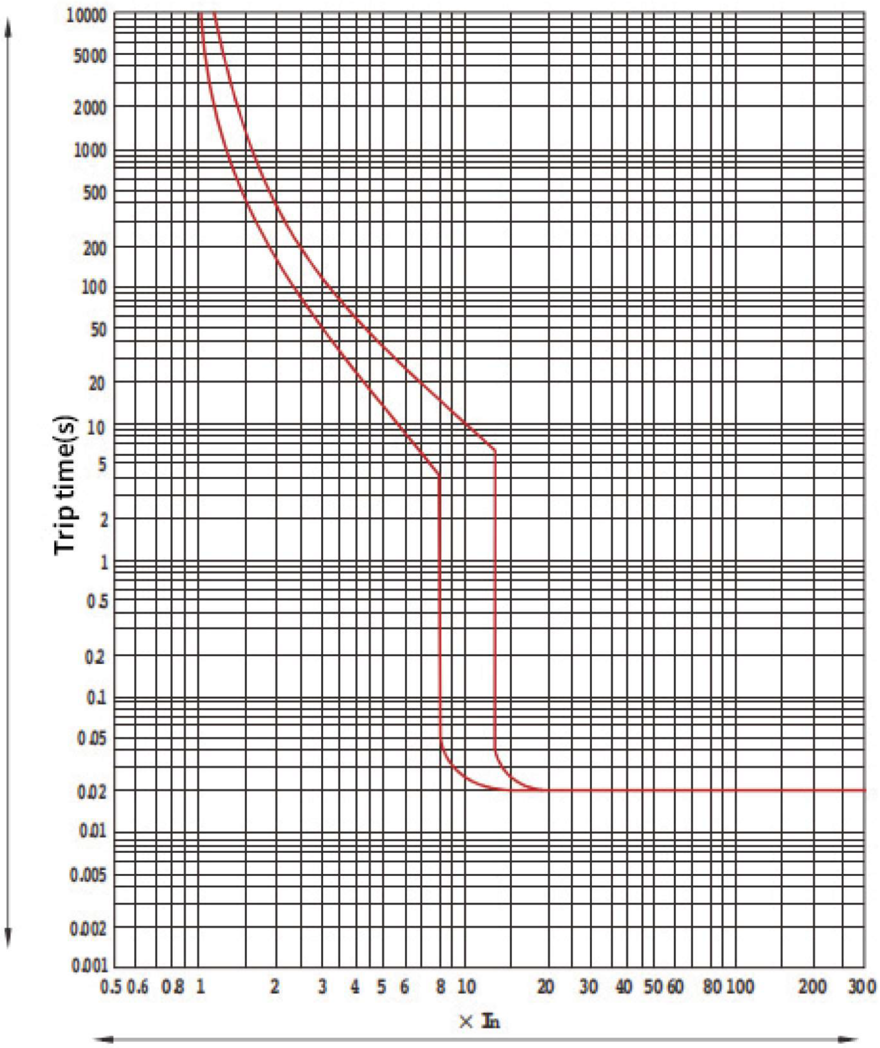
SGM3-250 Time current characteristic curve



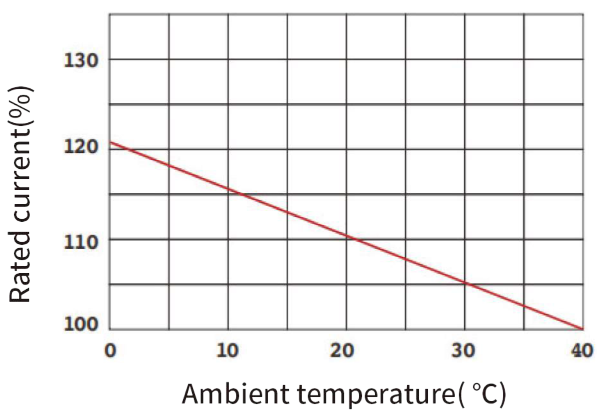
Current-temperature characteristics



SGM6-400 Time current characteristic curve



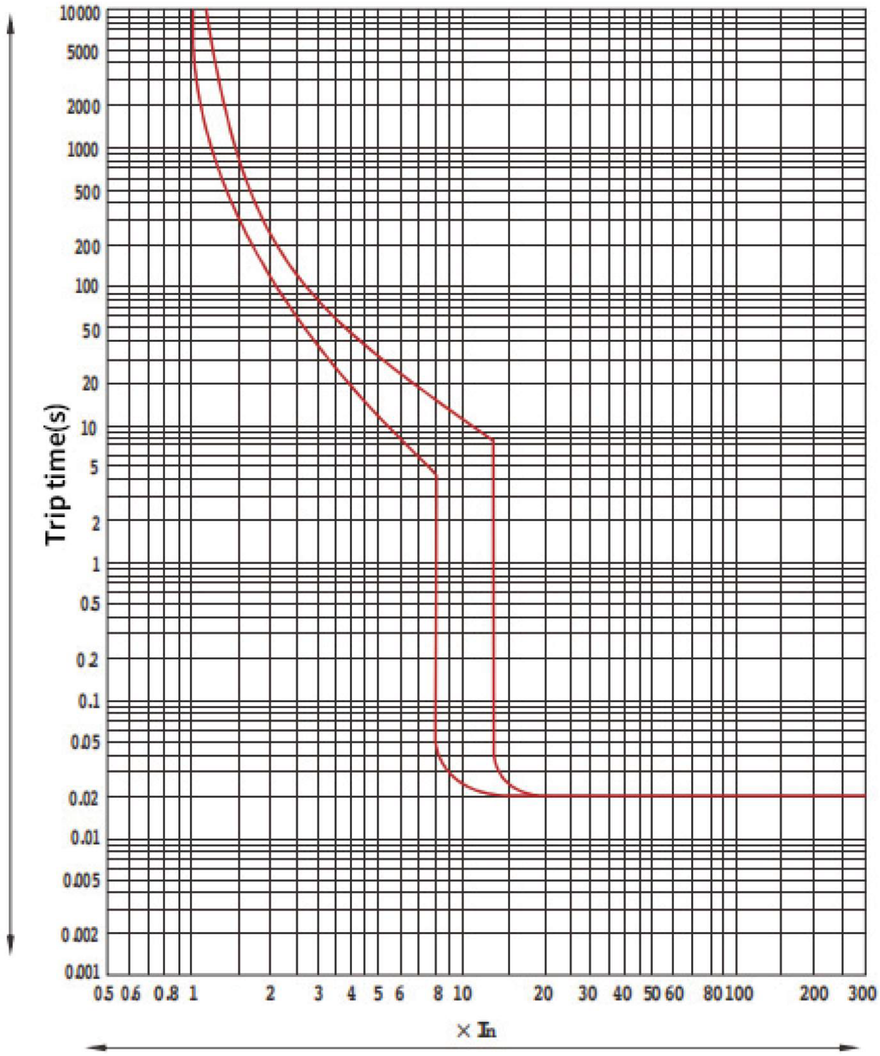
Current-temperature characteristics



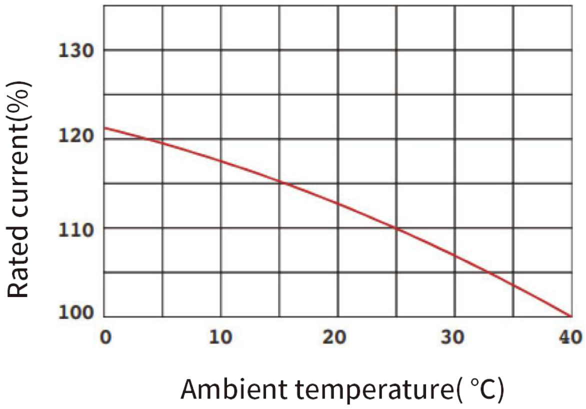
Temperature compensation coefficient chart

MAXGE

SGM6-630Time current characteristic curve



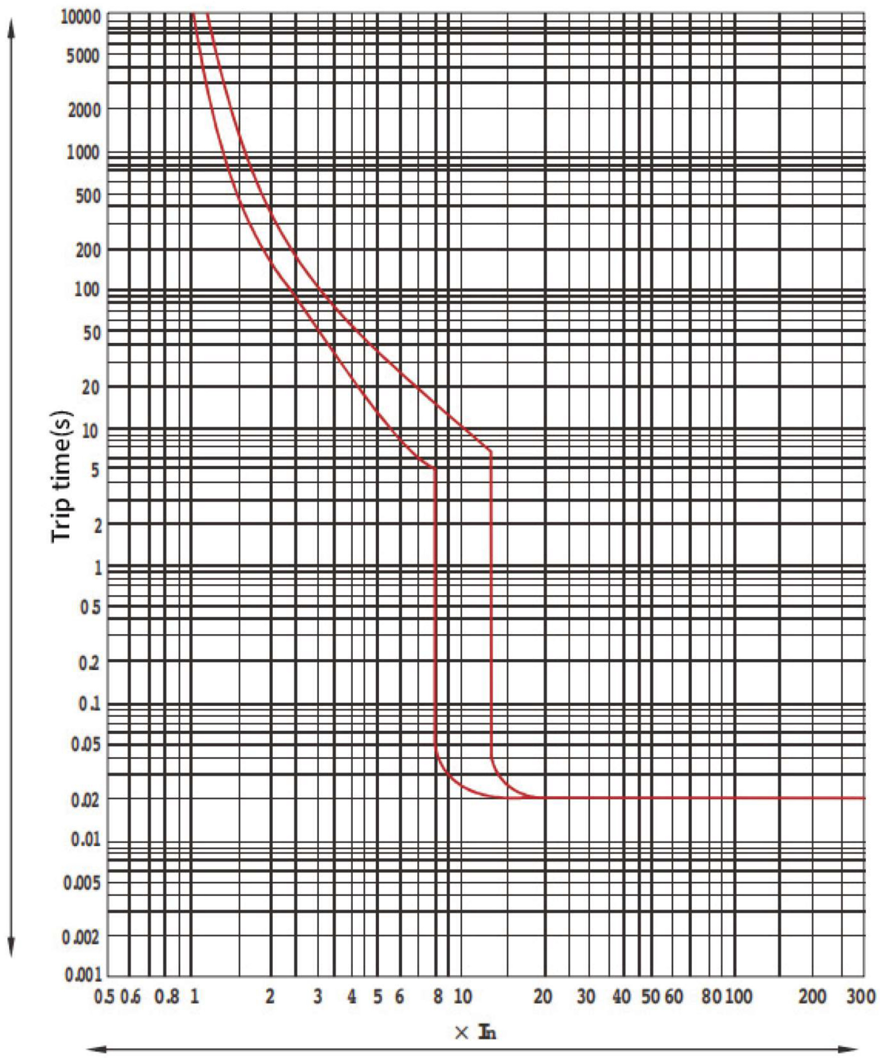
Current-temperature characteristics



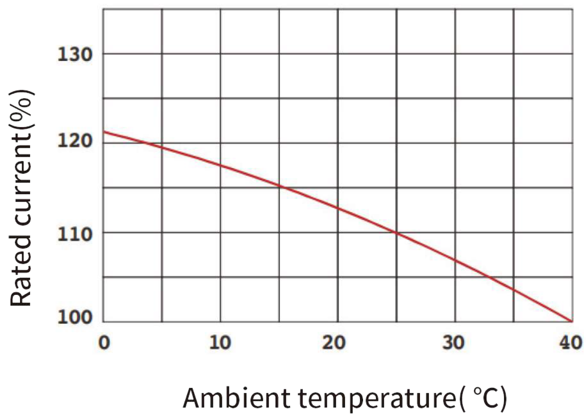
Temperature compensation coefficient chart

MAXGE

SGM6-800 Time current characteristic curve



Current-temperature characteristics



SGM3E-250

SGM6E-400

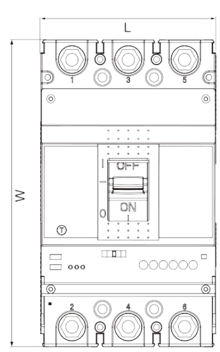
KEMA KEUR CE CB

Moulded Case Circuit Breaker

Electronic Type With Button

Frame Size	100A		160A		250A		400A	
Model	SGM1E-100		SGM1E-160		SGM1E-250		SGM6E-400	
Number of poles	3，4		3，4		3，4		3,4	
Rated current(A) In	32,63,100		32,63,160		250		250，400	
Standard	IEC60947-2							
Reference temperature	40°C/55°C							
Rated operational voltage	380/400/415VAC							
Rated insulation voltage Ui (V AC)	800						1000	
Rated impluse withstand voltage Uimp (kV)	8							
Breaking capacity level	M	H	M	H	M	H	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	50	80	50	80	50	85	85	100
Rated service short-circuit breaking capacity Ics(kA)	35	50	35	50	35	50	60	75
Mechanical Endurance Electrical Endurance	8500 1500		8500 1500		7000 1000		4000 1000	
Accessories								
Auxiliary contact(OF)	■		■		■		■	
Alarm switch(SD)	■		■		■		■	
Shunt tirp(MX)	■		■		■		■	
Under-voltage release(MN)	■		■		■		■	
AC Motor Mechanism	■		■		■		■	
Dimensions mm(L×W×H) 3P	92x150x92		92x150x92		107x165x90		150x257x148	
Dimensions mm(L×W×H) 4P	122x150x92		122x150x92		142x165x90		198x257x148	

"■" shows it has this option; "-" means it has no this option.



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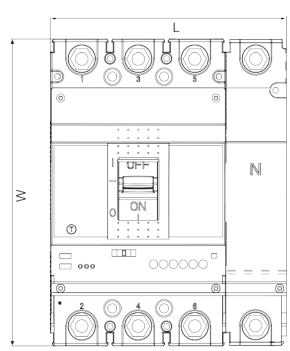

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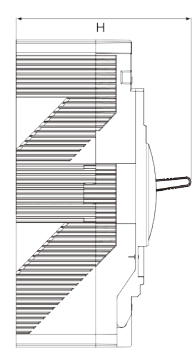


MAXGE

SGM6E-630

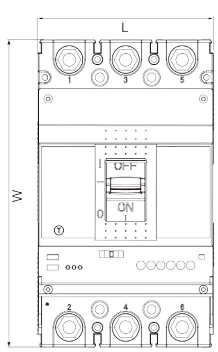
SGM6E-800

KEMA KEUR CE CB

Moulded Case Circuit Breaker — Electronic Type With Button

Frame Size	630A		800A	
Model	SGM6E-630		SGM6E-800	
Number of poles	3,4		3,4	
Rated current(A) In	250,400,630		630,800	
Standard	IEC60947-2			
Reference temperature	40°C/55°C			
Rated operational voltage	380/400/415VAC			
Rated insulation voltage Ui (V)	1000			
Rated impluse withstand voltage Uimp (kV)	8			
Breaking capacity level	M	H	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	85	100	85	100
Rated service short-circuit breaking capacity Ics(kA)	60	75	60	75
Mechanical Endurance Electrical Endurance	4000 1000		2500 500	
Accessories				
Auxiliary contact(OF)	■		■	
Alarm switch(SD)	■		■	
Shunt tirp(MX)	■		■	
Under-voltage release(MN)	■		■	
AC Motor Mechanism	■		■	
Dimensions mm(L×W×H) 3P	150x257x148		210x280x155	
Dimensions mm(L×W×H) 4P	198x257x148		280x280x155	

"■" shows it has this option; "-" means it has no this option.



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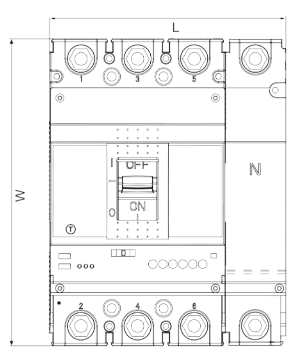

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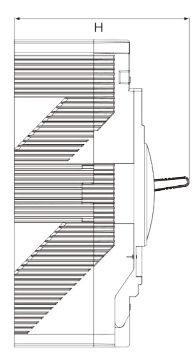


Setting Parameters For MCCB With Button

SGM3E-400

SGM3E-630

SGM3E-800

Frame size	100A			160A			250A
Model	SGM1E-100			SGM1E-160			SGM1E-250
Number of poles	3, 4			3, 4			3, 4
Trip unit rating, In(A)	32	63	100	32	63	160	250
Ir (A) = Long delay current range	16	32	63	16	32	63	100
	20	36	65	20	36	65	125
	25	40	70	25	40	70	140
	32	45	75	32	45	80	160
		50	80		50	85	180
		55	85		55	90	200
		60	90		60	95	225
		63	95		63	100	250
			100			125	
						160	
tr (S) = Long delay time	12-60-80-100 sec + OFF			12-60-80-100 sec + OFF			12-60-80-100 sec + OFF
Isd (A) = Short circuit protection of low level faults.	2-2.5-3-4-5-6-7-8-10-12 x Ir(A)			2-2.5-3-4-5-6-7-8-10-12 x Ir(A)			2-2.5-3-4-5-6-7-8-10-12 x Ir(A)
tsd (S) = short circuit protection time at low level faults	0.06-0.1-0.2- 0.3 sec + OFF			0.06-0.1-0.2- 0.3 sec + OFF			0.06-0.1-0.2- 0.3 sec + OFF
Ii(A) = Short circuit protection of high level faults	4-6-7-8-10-11-12-13-14 x Ir(A) + OFF			4-6-7-8-10-11-12-13-14 x Ir(A) + OFF			4-6-7-8-10-11-12-13-14 x Ir(A) + OFF
Ip(A) = Pre trip alarm setting multiple	0.7-0.75-0.8-0.85-0.9-0.95-1.0 x Ir(A)			0.7-0.75-0.8-0.85-0.9-0.95-1.0 x Ir(A)			0.7-0.75-0.8-0.85-0.9-0.95-1.0 x Ir(A)
For 4P Ig(A) = Ground fault pickup current	——			——			——
For 4P tg(S) = Ground fault pickup time	——			——			——

SGM6E-400

SGM6E-630

SGM6E-800

Setting Parameters For MCCB With Button

Frame size	400A		630A			800A	
Model	SGM6E-400		SGM6E-630			SGM6E-800	
Number of poles	3, 4		3, 4			3, 4	
Trip unit rating, In(A)	250	400	250	400	630	630	800
Ir (A) = Long delay current range	100	160	100	160	252	252	320
	112	190	112	190	300	300	435
	125	225	125	225	350	350	550
	140	250	140	250	400	400	630
	150	275	150	275	435	435	660
	160	300	160	300	475	475	690
	180	325	180	325	515	515	715
	200	350	200	350	550	550	745
	225	375	225	375	595	595	770
	250	400	250	400	630	630	800
tr (S) = Long delay time	12-60-100-150 sec + OFF		12-60-100-150 sec + OFF			12-60-100-150 sec + OFF	
Isd (A) = Short circuit protection of low level faults.	2-2.5-3-4-5-6-7-8-10-12 x Ir(A)		2-2.5-3-4-5-6-7-8-10-12 x Ir(A)			2-2.5-3- 3.5-4-5-6-7-8-10 x Ir(A)	
tsd (S) = short circuit protection time at low level faults	0.06-0.1-0.2- 0.3-0.4-0.5-1.0 sec + OFF		0.06-0.1-0.2-0.3- 0.4-0.5-1.0 sec + OFF			0.06-0.1-0.2-0.3- 0.4-0.5-1.0 sec + OFF	
Ii(A) = Short circuit protection of high level faults	4-6-7-8-9-10-11-12-14 x Ir(A) + OFF		4-6-7-8-9-10-11-12-14 x Ir(A) + OFF			4-5-6-7-8-9-10-11-12x Ir(A) + OFF	
Ip(A) = Pre trip alarm setting multiple	0.7-0.75-0.8-0.85-0.9-0.95-1.0 x Ir(A)		0.7-0.75-0.8-0.85-0.9-0.95-1.0 x Ir(A)			0.7-0.75-0.8-0.85-0.9-0.95-1.0 x Ir(A)	
For 4P Ig(A) = Ground fault pickup current	0.2- 0.3-0.4-0.5-0.6-0.7-0.8-0.9-1.0 x In + OFF		0.2- 0.3-0.4-0.5-0.6-0.7-0.8-0.9-1.0 x In + OFF			0.2- 0.3-0.4-0.5-0.6-0.7-0.8-0.9-1.0 x In + OFF	
For 4P tg(S) = Ground fault pickup time	Fixed at 0.4 sec		Fixed at 0.4 sec			Fixed at 0.4 sec	

MAXGE

Setting Parameters For MCCB With Button

Frame size	1250A
Model	SGM1E-1250
Number of poles	3
Trip unit rating, In(A)	1250
Ir (A) = Long delay current range	800
	850
	900
	950
	1000
	1050
	1100
	1250
tr (S) = Long delay time	12-60-100-150 sec + OFF
Isd (A) = Short circuit protection of low level faults.	2-2.5-3-4-5-6-7-8-10-12 x Ir(A)
tsd (S) = short circuit protection time at low level faults	0.06-0.1-0.2-0.3 sec + OFF
Ii(A) = Short circuit protection of high level faults	4-5-6-7-8-9-10-11-12x Ir(A) + OFF
Ip(A) = Pre trip alarm setting multiple	0.7-0.75-0.8-0.85-0.9-0.95-1.0 x Ir(A)
For 4P Ig(A) = Ground fault pickup current	——
For 4P tg(S) = Ground fault pickup time	——

MAXGE


iSGM6E-400


iSGM6E-630

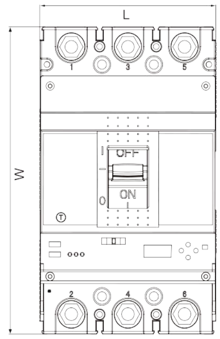

iSGM6E-800

Moulded Case
Circuit Breaker

Electronic Type With LCD

Frame Size	400A		630A		800A	
Model	iSGM6E-400		iSGM6E-630		iSGM6E-800	
Number of poles	3,4		3,4		3,4	
Rated current(A) In	250,400		250,400,630		630,800	
Standard	IEC60947-2					
Reference temperature	40°C/55°C					
Rated operational voltage	380/400/415VAC					
Rated insulation voltage Ui (VAC)	1000					
Rated impluse withstand voltage Uimp (kV)	8					
Breaking capacity level	M	H	M	H	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	85	100	85	100	85	100
Rated service short-circuit breaking capacity Ics(kA)	60	75	60	75	60	75
Mechanical Endurance Electrical Endurance	4000 1000		4000 1000		2500 500	
Accessories						
Auxiliary contact(OF)	■		■		■	
Alarm switch(SD)	■		■		■	
Shunt tirp(MX)	■		■		■	
Under-voltage release(MN)	■		■		■	
AC Motor Mechanism	■		■		■	
Dimensions mm(L×W×H) 3P	150x257x148		150x257x148		210x280x155	
Dimensions mm(L×W×H) 4P	198x257x148		198x257x148		280x280x155	

"■" shows it has this option; "-" means it has no this option.



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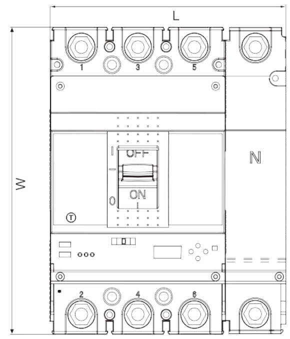

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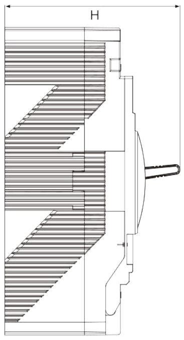


Setting Parameters For MCCB With LCD

iSGM6E-400

iSGM6E-630

iSGM6E-800

Frame size	400A		630A		
Rated current In(A)	250	400	250	400	630
Ir(A)=Long delay current range	0.4-1.0xln	0.4-1.0xln	0.4-1.0xln	0.4-1.0xln	0.4-1.0xln
Ir(A)=Long delay current setting	100-250A with increment by 1A	160-400A with increment by 1A	100-250A with increment by 1A	160-400A with increment by 1A	252-630A with increment by 1A
tr(S)=Long delay time	12-150sec with increment by 1 sec+OFF	12-150sec with increment by 1 sec+OFF	12-150sec with increment by 1 sec+OFF	12-150sec with increment by 1 sec+OFF	12-150sec with increment by 1 sec+OFF
lsd(A)=Short circuit protection of low level faults.	200-3000A with increment by 1A	320-4800A with increment by 1A	200-3000A with increment by 1A	320-4800A with increment by 1A	500-7560A with increment by 1A
tsd(S)=short time	0.06-1sec with increment by 0.02 sec+OFF	0.06-1sec with increment by 0.02 sec+OFF	0.06-1sec with increment by 0.02 sec+OFF	0.06-1sec with increment by 0.02 sec+OFF	0.06-1sec with increment by 0.02 sec+OFF
li(A)=Short circuit protection of high level faults	400-3500A with increment by 1A+OFF	640-5600A with increment by 1A+OFF	400-3500A with increment by 1A+OFF	640-5600A with increment by 1A+OFF	1000-8820A with increment by 1A+OFF
lp(A)=Pre trip alarm setting multiple	70-250A with increment by 1A	112-400A with increment by 1A	70-250A with increment by 1A	112-400A with increment by 1A	175-630A with increment by 1A
For 4P lg(A)=Ground fault pickup current	50-250A with increment by 1A+OFF	80-400A with increment by 1A+OFF	50-250A with increment by 1A+OFF	80-400A with increment by 1A+OFF	126-630A with increment by 1A+OFF
For 4P tg(S)=Ground fault pickup time	Fixed for 0.4 sec	Fixed for 0.4 sec	Fixed for 0.4 sec	Fixed for 0.4 sec	Fixed for 0.4 sec

Setting Parameters For MCCB With LCD

iSGM6E-400

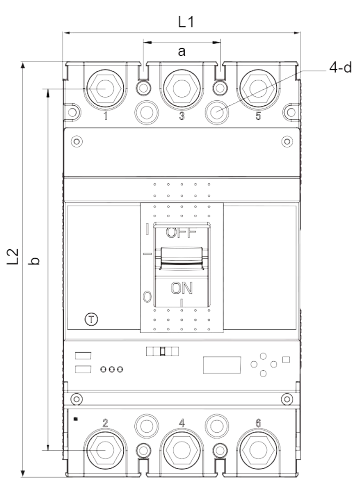
iSGM6E-630

iSGM6E-800

Frame size	800A	
Rated current In(A)	630	800
Ir(A)=Long delay current range	0.4-1.0xln	0.4-1.0xln
Ir(A)=Long delay current setting	252-630A with increment by 1A	320-800A with increment by 1A
tr(S)=Long delay time	12-150sec with increment by 1 sec+OFF	12-150sec with increment by 1 sec+OFF
lsd(A)=Short circuit protection of low level faults.	500-7560A with increment by 1A	650-8000A with increment by 1A
tsd(S)=short time	0.06-1sec with increment by 0.02 sec+OFF	0.06-1sec with increment by 0.02 sec+OFF
li(A)=Short circuit protection of high level faults	1000-8820A with increment by 1A+OFF	1300-9600A with increment by 1A+OFF
lp(A)=Pre trip alarm setting multiple	175-630A with increment by 1A	228-800A with increment by 1A
For 4P lg(A)=Ground fault pickup current	126-630A with increment by 1A+OFF	160-800A with increment by 1A+OFF
For 4P tg(S)=Ground fault pickup time	Fixed for 0.4 sec	Fixed for 0.4 sec

Outline And Installation Dimension

Applicable frame size	Poles	Outline Dimension				Installation Dimension		
		L1	L2	L3	L4	a	b	d
SGM1E-100	3	92max	150max	110max	92max	30max	132max	Ø4.5
	4	122max	150max	110max	92max	60max	132max	Ø4.5
SGM1E-160	3	92max	150max	110max	92max	30max	132max	Ø4.5
	4	122max	150max	110max	92max	60max	132max	Ø4.5
SGM1E-250	3	107max	165max	110max	90max	35max	144max	Ø5.0
	4	142max	165max	110max	90max	70max	144max	Ø5.0
SGM6E-400 iSGM6E-400	3	150max	257max	148max	111max	48max	194max	Ø7.0
	4	198max	257max	148max	111max	48max	194max	Ø7.0
SGM6E-630 iSGM6E-630	3	150max	257max	148max	111max	48max	194max	Ø7.0
	4	198max	257max	148max	111max	48max	194max	Ø7.0
SGM6E-800 iSGM6E-800	3	210max	280max	155max	121max	70max	243max	Ø7.0
	4	254max	280max	155max	121max	70max	243max	Ø7.0



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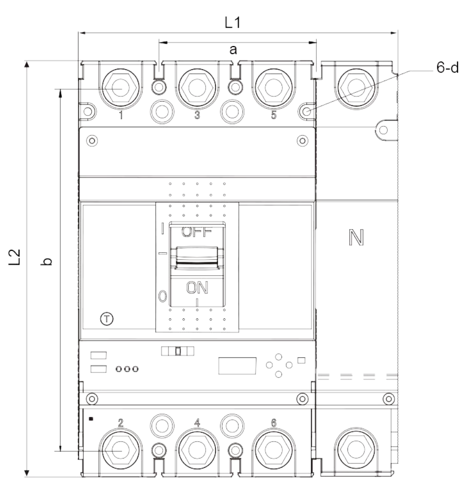

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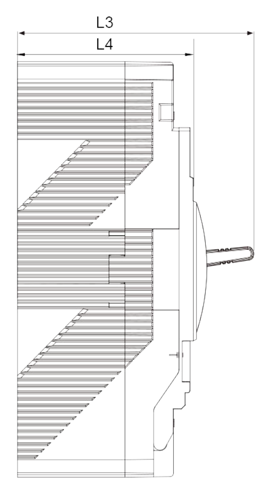
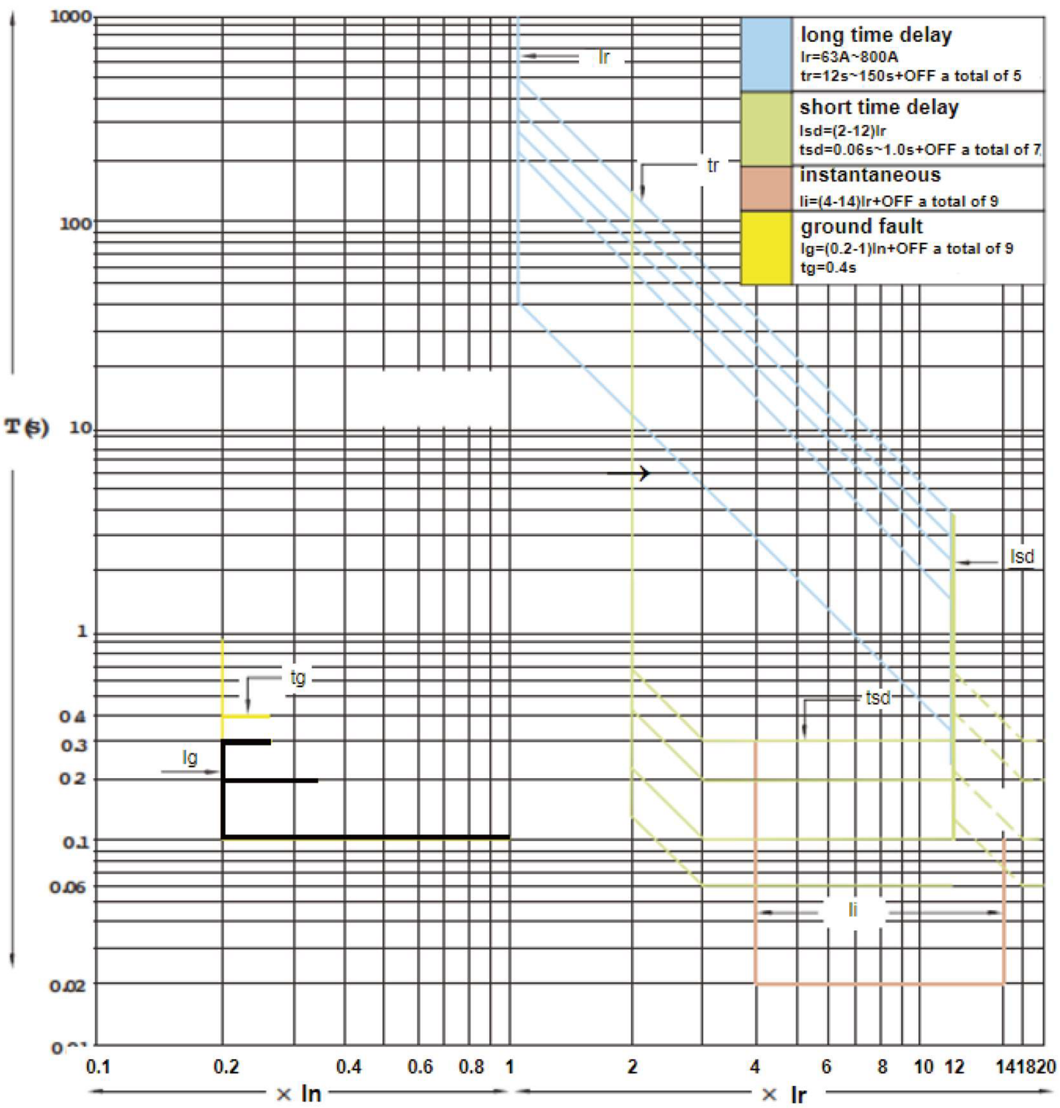


Temperature compensation coefficient chart

Model \ Temperature	+40°C	+45°C	+50°C	+55°C	+60°C	+65°C	+70°C
SGM1E-100	1In	0.977In	0.957In	0.936In	0.915In	0.894In	0.873In
SGM1E-160	1In	0.959In	0.918In	0.877In	0.835In	0.794In	0.752In
SGM1E-250	1In	0.985In	0.968In	0.952In	0.935In	0.919In	0.887In
SGM6E/iSGM6E-400	1In	0.978In	0.957In	0.936In	0.915In	0.894In	0.873In
SGM6E/iSGM6E-630	1In	0.978In	0.957In	0.936In	0.915In	0.894In	0.873In
SGM6E/iSGM6E-800	1In	0.978In	0.957In	0.936In	0.915In	0.894In	0.873In

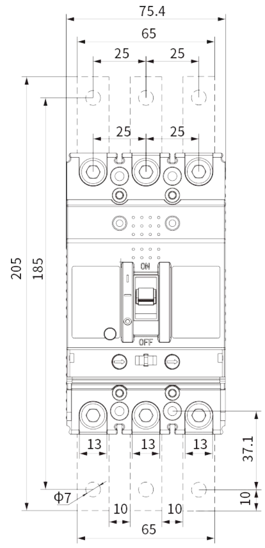
Electronic MCCB protection characteristic curve

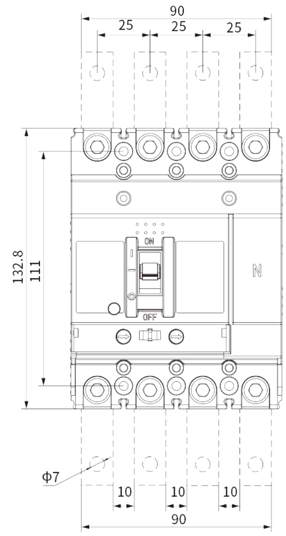


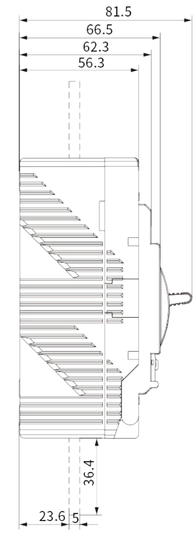
MCCB With Spreader Link Dimension

MAXGE

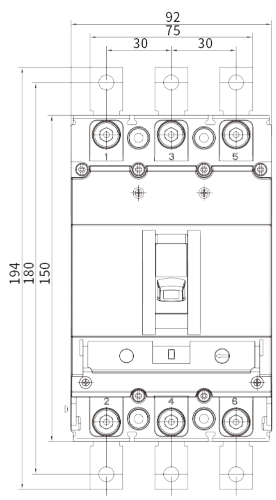
SGM6/6s/6sm-125 3 POLES & 4 POLES

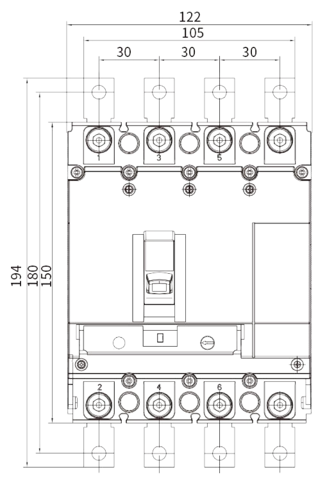


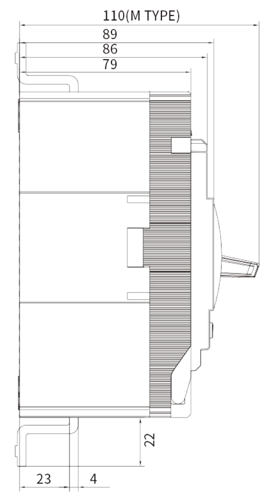




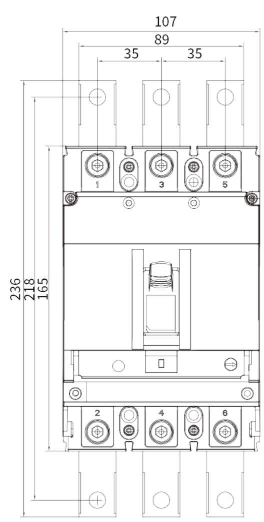
SGM3/3S-160 3POLES & 4POLES

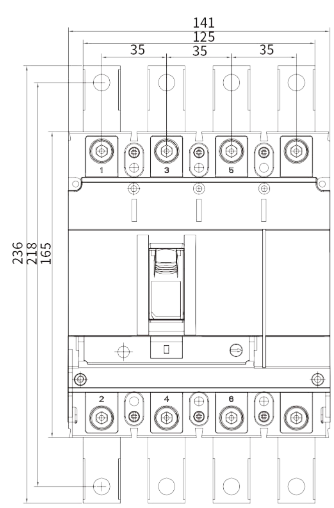


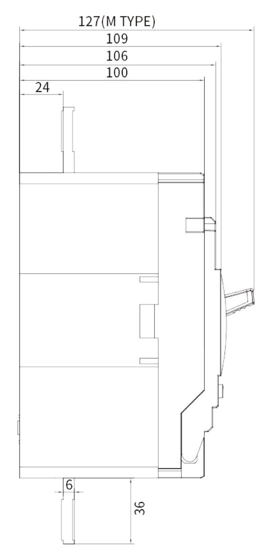




SGM3/3S-250 3POLES & 4POLES







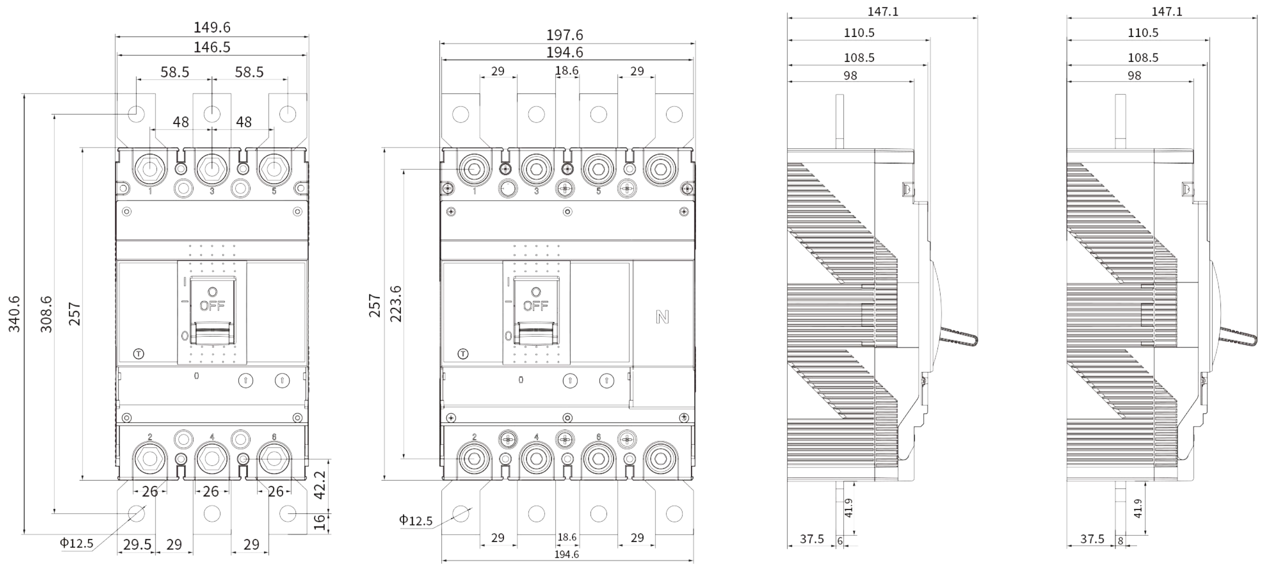
MCCB With Spreader Link Dimension

SGM6/6s/6sm-400 & 630
SGM6E/iSGM6E-400 & 630

3 POLES & 4 POLES

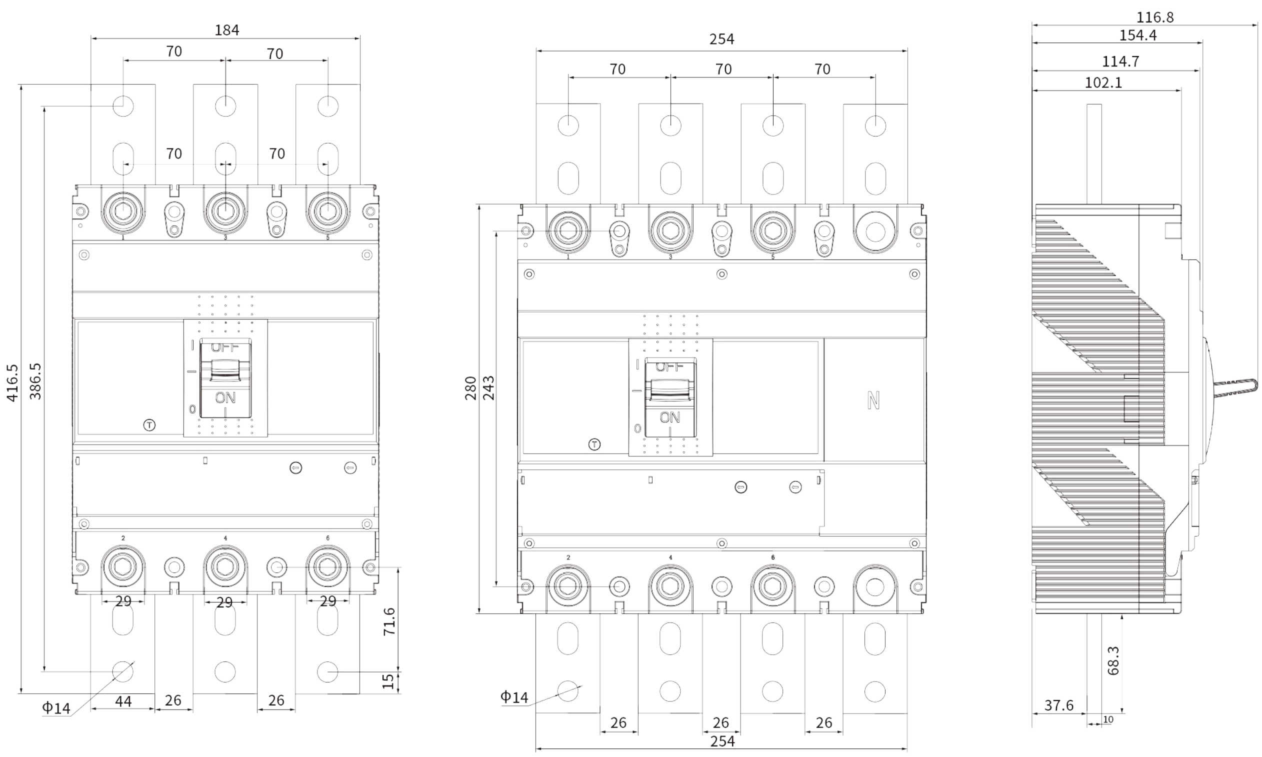
400A

630A



SGM3/3S-800
SGM6/6s/6sm-800
SGM6E/iSGM6E-800

3 POLES & 4 POLES



MAXGE

SGM1L Moulded Case Circuit Breaker

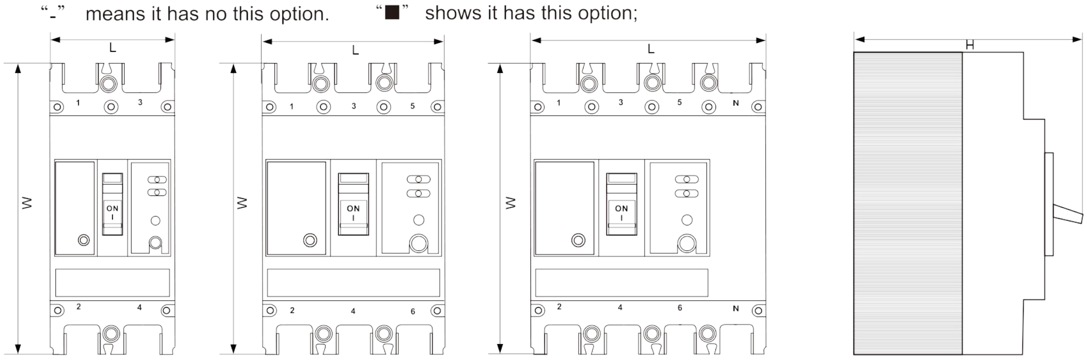
MCCB WITH ELCB TYPE

SGM1L–100

SGM1L–225

Frame Size	100			225		
Model	SGM1L-100			SGM1L-225		
Number of poles	2, 3,4			2, 3,4		
Rated Current(A) In	10, 16,20,25, 32,40,50,63, 80,100			100,125,140, 160,180,200, 225		
Standard	IEC60947-2					
Rated insulation voltage Ui(V)	800					
Rated impluse withstand voltage Uimp(kV)	8					
Rated operational voltage	380/400/415VAC					
Breaking capacity level	L	M	H	L	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	35	50	85	35	50	80
Rated service short-circuit breaking capacity Ics(kA)	22	35	50	22	35	50
Mechanical Endurance Electrical Endurance	8500 1500			7000 1000		
Rated residual operating current I△n(mA)						
Without time delay	30/100/500 100/300/500			30/100/500 100/300/500		
With time delay	100/300/500			100/300/500		
Rated residual non-operating current	1/21 △n			1/21 △n		
Breaking time at a residual current	I△n			2I △n		
Max.breaking times						
Without time delay	0.3			0.15		
With time delay	0.4/1			0.4/1		
Accessories						
Auxiliary contact(OF)	■			■		
Alarm switch(SD)	■			■		
Shunt tirp(MX)	■			■		
Under-voltage release(MN)	■			■		
AC Motor Mechanism	■			■		
Extended Rotary Handle	■			■		
Dimensions mm(L x W x H) 2P	62x150x110			75x165x109		
Dimensions mm(L x W x H) 3P	L:92x150x90			L:106x165x109		
Dimensions mm(L x W x H) 3P	M/H:92x150x110			M/H:107x165x127		
Dimensions mm(L x W x H) 4P	L:122x150x90			L:141x165x109		
Dimensions mm(L x W x H) 4P	M/H:122x150x110			M/H:141x165x127		

"-" means it has no this option. "■" shows it has this option;



SGM1L–400L

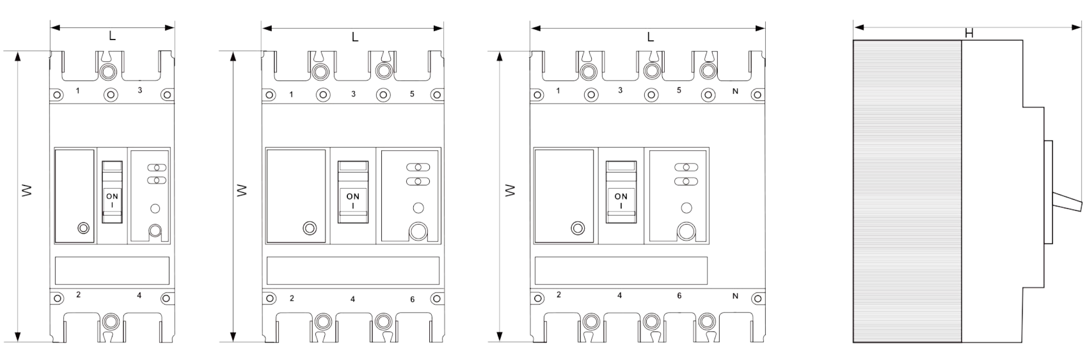
SGM1L–800L

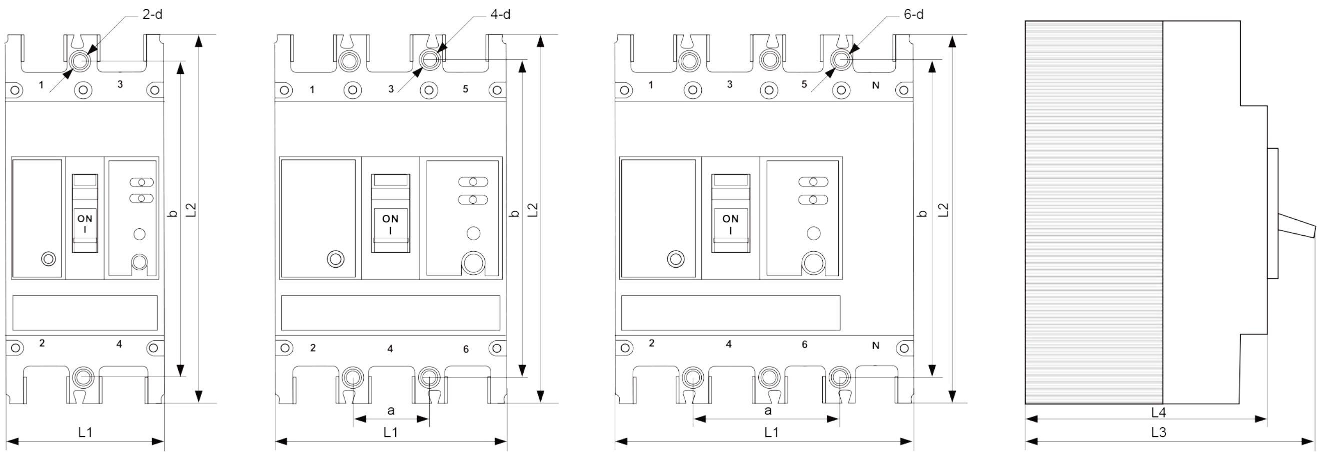
SGM1L Moulded Case Circuit Breaker

MCCB WITH ELCB TYPE

Frame Size	400			630			800		
Model	SGM1L-400			SGM1L-630			SGM1L-800		
Number of poles	3,4			3,4			3,4		
Rated Current(A) In	225,250,315, 350,400			400,500,630,			630,700,800		
Standard	IEC60947-2								
Rated insulation voltage Ui(V)	800								
Rated impluse withstand voltage Uimp(kV)	8								
Rated operational voltage	380/400/415VAC								
Breaking capacity level	L	M	H	L	M	H	L	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	50	65	100	50	65	100	50	65	100
Rated service short-circuit breaking capacity Ics(kA)	35	42	65	35	42	65	35	42	65
Mechanical Endurance Electrical Endurance	7000 1000			4000 1000			4000 1000		
Rated residual operating current I△n(mA)									
Without time delay With time delay	100/300/500			300/500/1000			300/500/1000		
Rated residual non-operating current	1/21 △n			1/21 △n			1/21 △n		
Breaking time at a residual current	5I △n			10I △n			10I △n		
Max.breaking times									
Without time delay	0.04			0.04			0.04		
With time delay	0.4/1			0.4/1			0.4/1		
Accessories									
Auxiliary contact(OF)	■						■		
Alarm switch(SD)	■						■		
Shunt tirp(MX)	■						■		
Under-voltage release(MN)	■						■		
AC Motor Mechanism	■						■		
Extended Rotary Handle	■						■		
Dimensions mm(L x W x H) 2P	—			—			—		
Dimensions mm(L x W x H) 3P	150x257x148			210x280x155			210x280x155		
Dimensions mm(L x W x H) 4P	198x257x148			280x280x155			280x280x155		

“-” means it has no this option. “■” shows it has this option;





Applicable frame size	Poles	Outline Dimension				Installation Dimension		
		L1	L2	L3	L4	a	b	d
SGM1L-100L	2	62max	150max	110 max	75max	—	129	4.5
	3	92max	150max	90max	75max	30	129	4.5
	4	122max	150max	90max	75max	60	129	4.5
SGM1L-100M/H	2	62max	150max	110max	92max	—	129	4.5
	3	92max	150max	110max	92max	30	129	4.5
	4	122max	150max	110max	92max	60	129	4.5
SGM1L-225L	2	75max	165max	109 max	72max	—	126	4.5
	3	106max	165max	109 max	72max	35	126	4.5
	4	141max	165max	109 max	72max	70	126	4.5
SGM1L-225M/H	2	75max	165max	110max	90max	—	126	4.5
	3	107max	165max	127 max	90max	35	126	4.5
	4	141max	165max	127 max	90max	70	126	4.5
SGM1L-400L/M/H	3	150max	257max	148max	106max	44	194	7
	4	198max	257max	148max	106max	44	194	7
SGM1L-630L/M/H	3	210max	280max	155max	116max	70	243	7
SGM1L-800L/M/H	4	280max	280max	155max	116max	70	243	7

SGM3 DC Moulded Case Circuit Breaker

DC TYPE

Frame Size	250			630		
Model	SGM3 DC-250			SGM3 DC-630		
Number of poles	3	4		3	4	
Rated current(A) In	16,20,25,32,40,50, 63,80,100,125,140, 160,180,200, 225,250			250,315,350, 400,500,630		
Standard	IEC60947-2					
Reference temperature	40°C/50°C					
Rated operation voltage Ue(V)	DC750	DC1000	DC1500	DC750	DC1000	DC1500
Rated operation voltage Ui(V)	1000					
Rated impluse withstand voltage Uimp(kV)	8					
Breaking capacity level	H			H		
Rated ultimate short-ciruit breaking capacity Icu(kA)	40			40		
Rated service short-ciruit breaking capacity Ics(kA)	20			20		
Mechanical Endurance Electrical Endurance	5000 10000			1000 5000		
Arcing distance	⩽50			⩽100		
Isolation applicability	Yes			Yes		
Dimensions mm(L×W×H) 3P	165×107×103			270×182×110		
Dimensions mm(L×W×H) 4P	165×142×103			270×240×110		

SGM3 DC


SGS

MAXGE ELECTRIC TECHNOLOGY CO., LTD.

ISO 9001:2015

ISO-9001


SGS

MAXGE ELECTRIC TECHNOLOGY CO., LTD.

ISO 14001:2015

ISO-14001


SGS

MAXGE ELECTRIC TECHNOLOGY CO., LTD.

OHSAS 18001:2007

OHSAS-18001


DEKRA

CERTIFICATE

KEMA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CERTIFICATE

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Intertek

Certificate

for European Product Safety

Switch-disconnectors

SEMKO


Intertek

Certificate

for European Product Safety

Low-voltage switchgear and controlgear:
Contactors and motor-starters

SEMKO


intertek

Certificate

for European Product Safety

Residual current operated circuit-breaker
with integral overcurrent protection
(RCBO's)

SEMKO

International Certification

MAXGE


Zertifikat Certificate

TUV


Zertifikat Certificate

TUV


CERTIFICATE
of Conformity
Low Voltage Directive 2014/35/EU

TUV


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ASTA


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Certificate of Approval
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CE

MAXGE ELECTRIC TECHNOLOGY

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