



SGM3E-250



SGM6E-400

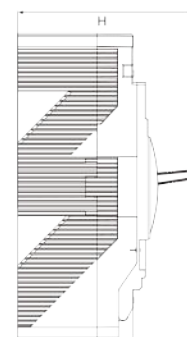
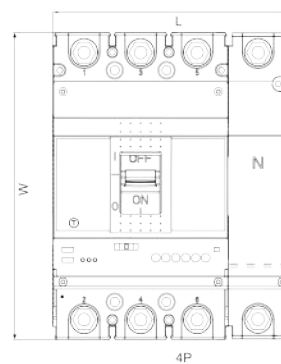
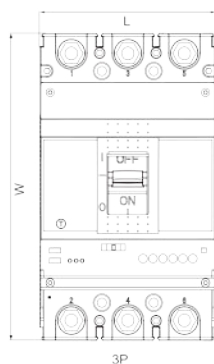
Moulded Case Circuit Breaker

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 impulse 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	8500	8500	7000	4000				
Electrical Endurance	1500	1500	1000	1000				
Accessories								
Auxiliary contact(OF)	■	■	■	■				
Alarm switch(SD)	■	■	■	■				
Shunt trip(MX)	■	■	■	■				
Under-voltage release(MN)	■	■	■	■				
AC Motor Mechanism	■	■	■	■				
Dimensions mm(L×W×H)	3P	92x150x92	92x150x92	107x165x90	150x257x148			
	4P	122x150x92	122x150x92	142x165x90	198x257x148			



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





SGM6E-630



SGM6E-800

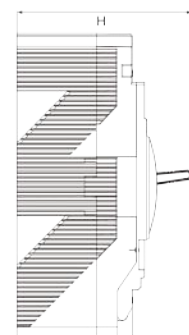
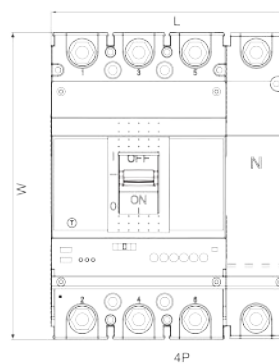
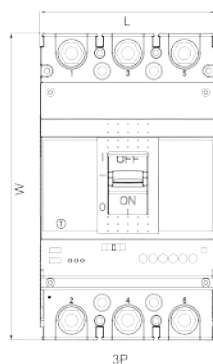
Moulded Case
Circuit Breaker

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 impulse 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	4000		2500	
Electrical Endurance	1000		500	
Accessories				
Auxiliary contact(OF)	■		■	
Alarm switch(SD)	■		■	
Shunt trip(MX)	■		■	
Under-voltage release(MN)	■		■	
AC Motor Mechanism	■		■	
Dimensions mm(L×W×H)	3P	150x257x148		210x280x155
	4P	198x257x148		280x280x155



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



Setting Parameters For MCCB With Button



SGM6E-400



SGM6E-630



SGM6E-800

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
I _r (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
t _r (S) = Long delay time	12-60-100-150 sec + OFF		12-60-100-150 sec + OFF			12-60-100-150 sec + OFF	
I _{sd} (A) = Short circuit protection of low level faults.	2-2.5-3-4-5-6-7-8-10-12 x I _r (A)		2-2.5-3-4-5-6-7-8-10-12 x I _r (A)			2-2.5-3- 3.5-4-5-6-7-8-10 x I _r (A)	
t _{sd} (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	
I _i (A) = Short circuit protection of high level faults	4-6-7-8-9-10-11-12-14 x I _r (A) + OFF		4-6-7-8-9-10-11-12-14 x I _r (A) + OFF			4-5-6-7-8-9-10-11-12x I _r (A) + OFF	
I _p (A) = Pre trip alarm setting multiple	0.7-0.75-0.8-0.85-0.9-0.95-1.0 x I _r (A)		0.7-0.75-0.8-0.85-0.9-0.95-1.0 x I _r (A)			0.7-0.75-0.8-0.85-0.9-0.95-1.0 x I _r (A)	
For 4P I _g (A) = Ground fault pickup current	0.2- 0.3-0.4-0.5-0.6-0.7-0.8-0.9-1.0 x I _n + OFF		0.2- 0.3-0.4-0.5-0.6-0.7-0.8-0.9-1.0 x I _n + OFF			0.2- 0.3-0.4-0.5-0.6-0.7-0.8-0.9-1.0 x I _n + OFF	
For 4P t _g (S) = Ground fault pickup time	Fixed at 0.4 sec		Fixed at 0.4 sec			Fixed at 0.4 sec	

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 I _g (A) = Ground fault pickup current	————
For 4P t _g (S) = Ground fault pickup time	————