


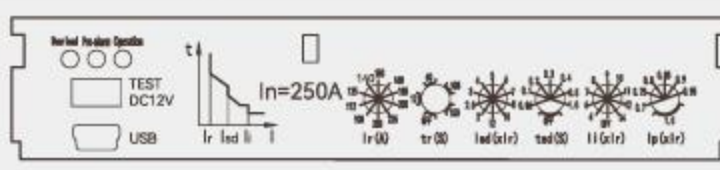
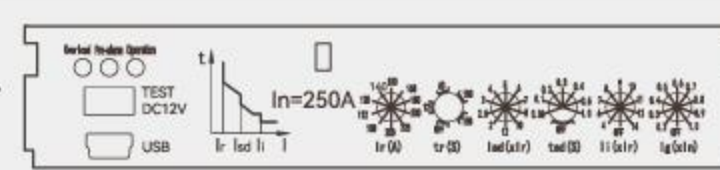
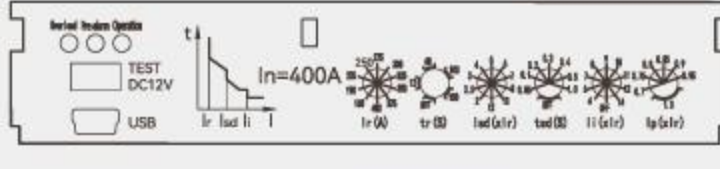
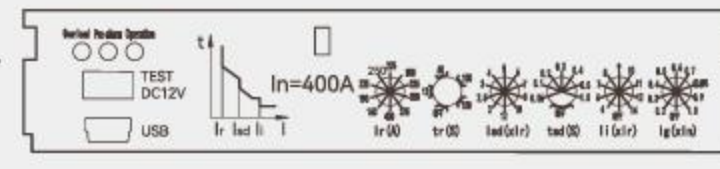

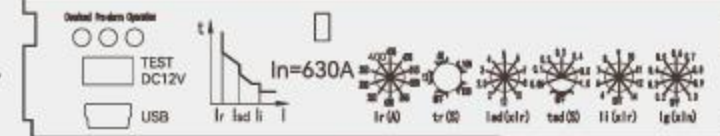


Electronic Type With Knob



SGM6E Moulded Case Circuit Breaker

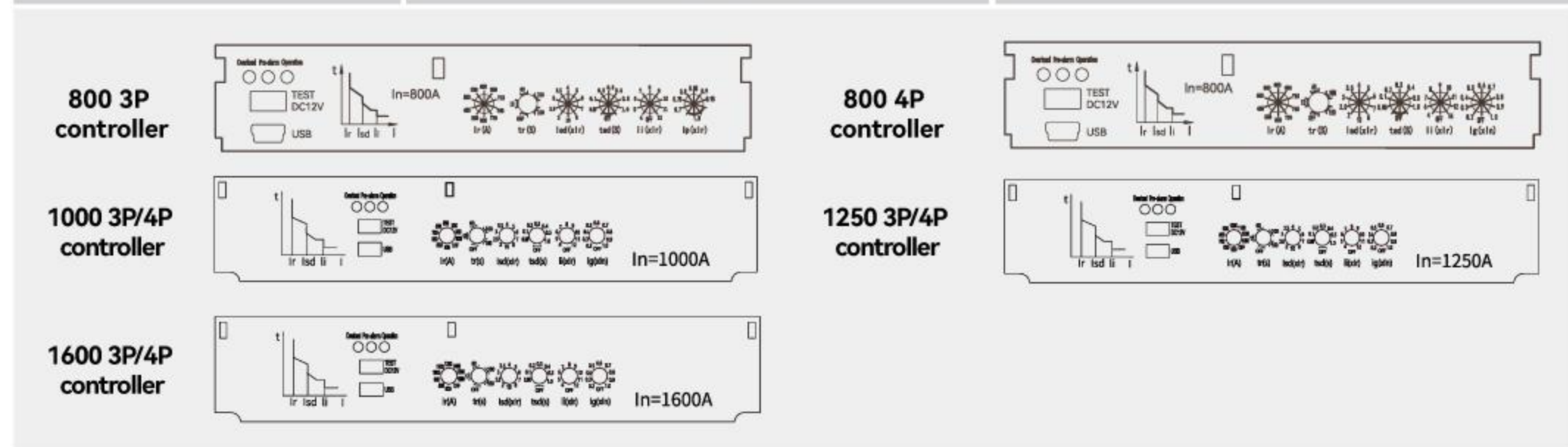


Ratings And Specifications Electronic Type With Knob

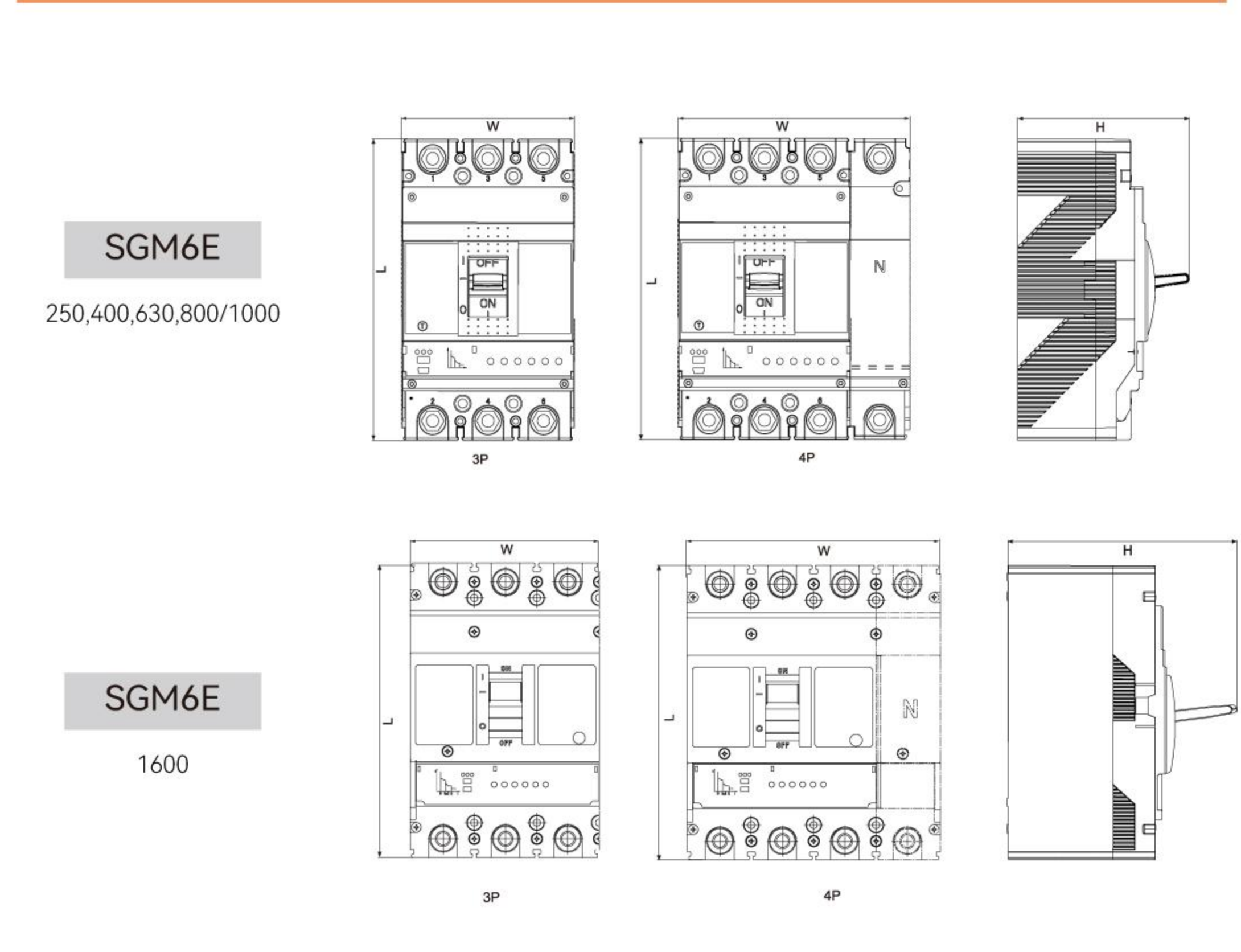
Frame Size	 250	 400	 630					
Model	SGM6E-250	SGM6E-400	SGM6E-630					
Number of poles	3,4							
Rated current(A) In	125,160,250	250,300,315,320,400	250,300,315,320,400 500,600,630					
Standard	IEC60947-2							
Rated operational voltage	380/400/415V AC							
Rated insulation voltage Ui (V)	1000							
Rated impulse withstand voltage Uimp (kV)	8							
Selectivity category	B							
Breaking capacity level	L	M	H	H max	M	H	M	H
Rated ultimate short-circuit breaking capacity Icu(kA)	36	50	65	85	85	100	85	100
Rated service short-circuit breaking capacity Ics(kA)	25	36	50	66	60	75	60	75
Icu=Ics(kA)	25	36	50	66	60	75	60	75
Mechanical Endurance	for 100A	for 125-250A	for 250-315A	for 350-400A	4000			
Electrical Endurance	8500	7000	7000	4000	1000			
Installation	Auxiliary contact(OF) Alarm switch(SD) Shunt trip(MX) Under-voltage release(MN) AC Motor Mechanism Extended Rotary Handle							
250 3P controller				250 4P controller				
400 3P controller				400 4P controller				
630 3P controller				630 4P controller				

Ratings And Specifications Electronic Type With Knob

Frame Size		
Model	SGM6E-800 SGM6E-1000	SGM6E-1600
Number of poles	3,4	
Rated current(A) In	For SGM6E-800:630,800 For SGM6E-1000:630,800,1000	1000,1250,1600
Standard	IEC60947-2	
Reference temperature	40°C/55°C	
Rated operational voltage	380/400/415V AC	
Rated insulation voltage Ui (V)	1000	
Rated impulse withstand voltage Uimp (kV)	8	12
Mention Selectivity category	B	
Breaking capacity level	M H	M H
Rated ultimate short-circuit breaking capacity Icu(kA)	85 100	66 85
Rated service short-circuit breaking capacity Ics(kA)	60 75	50 66
Icu=Ics(kA)	60 75	50 66
Mechanical Endurance Electrical Endurance	2500 500	
Installation	Auxiliary contact(OF) Alarm switch(SD) Shunt trip(MX) Under-voltage release(MN) AC Motor Mechanism Extended Rotary Handle	Auxiliary contact(OF) Alarm switch(SD) Shunt trip(MX) Under-voltage release(MN) AC Motor Mechanism



Product Dimension Drawing Electronic Type With Knob



SGM6E Dimensions mm(L×W×H)							
Frame Size		250	250 (H max)	400	630	800/1000	1600
3P	Length	165	165	257	257	280	310
	Width	107	105	150	150	210	212
	Height	102	112	152	152	155	242
4P	Length	165	165	257	257	280	310
	Width	142	140	197	197	280	282
	Height	102	112	152	152	155	242

Setting Parameters		Electronic Type With Knob														
Frame Size	SGM6E-250A				SGM6E-400A				SGM6E-630A							
Rated current In(A)	125	160	250	250	300	315	320	400	250	300	315	320	400	500	600	630
Ir(A) Long Delay Current Setting	50-63-70 75-80-85 90-95-100 125A	63-70-75 80-90-100 125-140-150 160A	100-112-125 140-150 160-180-200 225-250A		120-142-168 188-206 225-243-262 281-300A	126-150-177 196-216 236-255-275 295-315A	128-152-180 200-220 240-260-280 300-320A	160-190-225 250-275 300-325-350 375-400A	100-112-125 140-150 160-180-200 225-250A	120-142-168 188-206 225-243-262 281-300A	126-150-177 196-216 236-255-275 295-315A	128-152-180 200-220 240-260-280 300-320A	160-190-225 250-275 300-325-350 375-400A	200-238-278 317-345 377-408-436 472-500A	240-285-333 380-414 452-490-523 566-600A	252-300-350 400-435-475-515 550-595-630A
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 time	0.06-0.1-0.2-0.3 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 xIr(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	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 for 0.4sec															

Setting Parameters		Electronic Type With Knob						
Frame Size	SGM6E-800A		SGM6E-1000A			SGM6E-1600A		
Rated current In(A)	630	800	630	800	1000	1000	1250	1600
Ir(A) Long Delay Current Setting	252-300-350 400-435-475-515 550-595-630A	320-435-550 630-660 690-715-745 770-800A	252-300-350 400-435-475-515 550-595-630A	320-435-550 630-660 690-715-745 770-800A	400-500-630 700-800-850 900-950 1000A	400-500-630 700-800-850 900-950 1000A	500-630 700-800 900-1000 1100-1200 1250A	630-800 900-1000 1100-1250 1400-1500 1600A
tr(S) Long Delay Time	12-60-100-150 sec + OFF		12-60-80-150 sec + OFF			12-60-80-150 sec + OFF		
Isd(A) Short Circuit Protection Of Low Level Faults	2-2.5-3 -4-5-6 -7-8-10-12x Ir(A)	2-2.5-3-3.5 -4-5-6 -7-8-10x Ir(A)	2-2.5-3-3.5-4-5-6-7-8-10 x Ir(A)				2-2.5-3-3.5-4-5-6-7-8-9 x Ir(A)	
tsd (S) short time	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 xIr(A) + OFF	4-5-6-7-8 -9-10-11 -12 xIr(A) + OFF	4-5-6-7-8-9-10-11-12 xIr(A)+ OFF				4-5-6-7-8-9-10 xIr(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)			Fixed 0.9x 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							
For 4p tg(S) Ground Fault Pickup Time	Fixed for 0.4sec							