

Characters

Standards

· IEC60907-2/GB14048.2 Low voltage breakers

Pollution Grade

 Grade 3 while operating in industrial enviorment under IEC60947-1 and 60664-1 standard

Anti-Humidity&Heat Ability

· Dry cold, dry heat, wet heat

Ambient Temperature

- SGM3 series MCCB can work continuously in normal environment and ambient temperature of -5°C to 40°C
- When ambient working temperature>40°C (motor protection>60°C), should follow to temperature reduced capacity coefficient or contact us



- Normal installing altitude: ≤ 2000m
- If installing altitude>2000m, must consider the dielectric strength changes and the temperature drops that can follow to altitude reduced capacity coeficient or contact us

Humidity

Normal working conditions:

- When ambient air temperature is +40°C, the relative humidity of atmosphere can not>50%. If the temperature is low, it can work in relative high humidity
- · The monthly average relative humidity is 90% for wettest month
- · Should consider the performance influence of condensation on the product surface

Reliable Contact Indication with Isolation Function

All SGM3 series MCCB strickly measure up to all the isolation terms under IEC60947-2 standard $\,$

- Isolation position matches to O(OFF)
- Only when the contact is truly open, the operating handle can indicated to "OFF"
- To turn the handle or electric operation mechanism will not influence the reliability of contact indication system
- The mechanical reliability of contact indication system
- No leakage current
- · Overvoltage withstand capacity between input and output terminals

IP Grade

- · Circuit breaker body: IP20
- · Circuit breaker installed in cabinet: with toggle handle: IP40

with electric operation mechanism: IP40

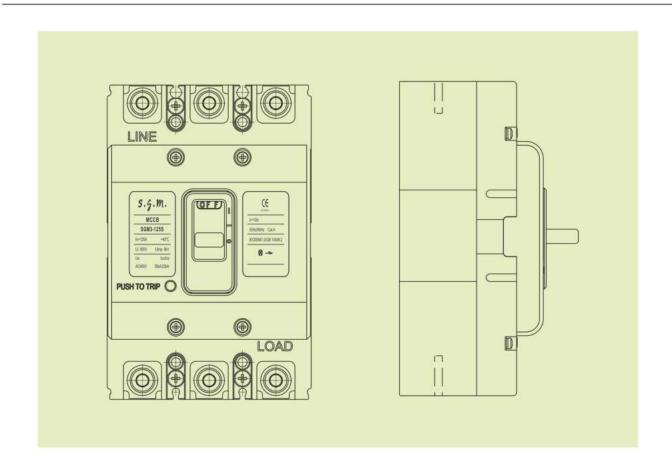




Lable and outline Introduction







Frame		RGM3-125	RGM3-250			RGM3	3-400		RGM3	3-630	
Rated Operated Volta	ge Ue (V)	400/415	400/415/690			400/4	15/690		400/4	15/690	
Rated Insulation Volta	ige Ui (V)	800	800			800			800		
Rated Impules Withst	and Voltage Uimp(kV)	8	8			8			8		
Rated Current In(A)		10-125	100-250			200-4	100		400/5	00/630	
Pole(3P,4P-A/B)		3/4	3/4			3/4			3/4		
		S	s	F	N	S	F	N	S	F	N
lcu(kA)	50/60HZ AC 400/415V	35	35	50	70	50	70	85	50	70	85
Rated short-circuit	50/60HZ AC 690V	-	-	-	15	-	-	20		-	20
breaking capacity	50/60HZ AC 400/415V	22	22	30	42	30	42	51	30	42	51
lcs(kA)	50/60HZ AC 690V		-		8	m.		10		-	10
	Maintenance	40000	40000			2000	0		20000)	
Mechanical durability	No maintenance	20000	20000			1000	0		10000)	
Electrical durability	AC 400/415V	8000	8000			7500			7500		
	Power distribution	•	1								
Protection type	Motor										
	Thermal-magnetic										
Type of trip unit	Single magnetic		■ 0			-					
	Front connection										
	Rear connection		-								
Connection	Pulg-in front connection		-			-					
	Plug-in rear connection										
	Drawout connection	-	-			-			(4)		
	UVT		•								
	SHT		-								
	AL		•								
	AX (10N10FF)										
	AX (20N2OFF)		-								
	Extension terminals		•			-			-		
Accessories	AC remote operation	-	-			-			-		
	AC/DC remote operation		-			-					
	Round direct rotary		-			-					
	Square direct rotary		-			-					
	Round extended rotary		- 0			-					
	Square extended rotary										
	Interphase barriers		•								
Acc installation											
Isolated function											
Caterory		A	A			Α			Α		
	3P (mm)	75×130×68	107×165×76	107×1	65×88	142×2	.57×107.5	ì	142×2	57×107.5	
Dimensions (WxLxH)	4P (mm)	100×130×68	142×165×76	142×1	65×88	184×2	57×107.5		184×2	57×107.5	

- SGM3-63/100/125AF, <40A, Minimum protection current 400A; ≥40A, 10/12In
 100A, F/N type, Minimum current ≥40A

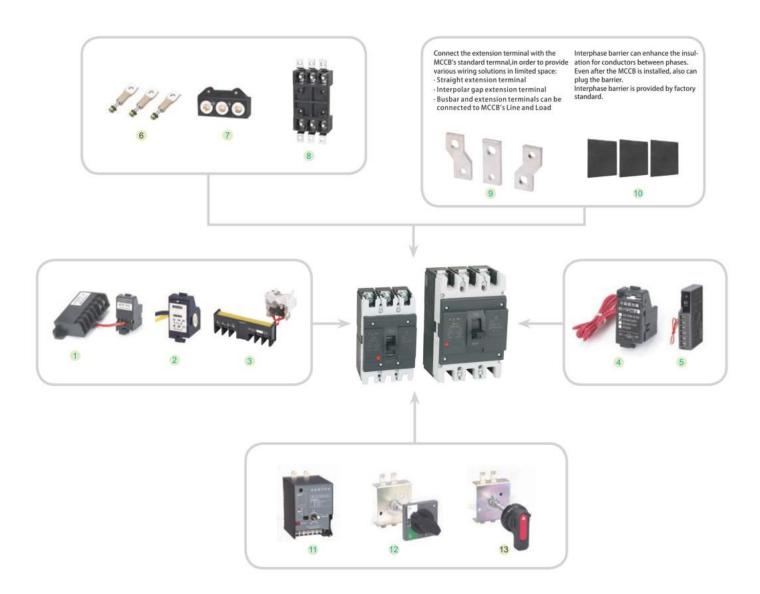
- 4 pole N phase has A and B types:
 A Type: No trip ass'y in N phase, keep N phase connecting, no operating with other 3 phases
 B Type: No trip ass'y in N phase, operating with other 3 phases

Accessories

Accessories List

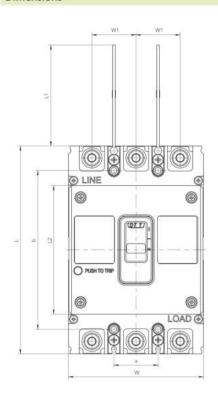
Internal acc: Shunt trip, Under voltage release, Auxiliary switch, Alarm switch, Aux/Al switch Leakage current alarm module

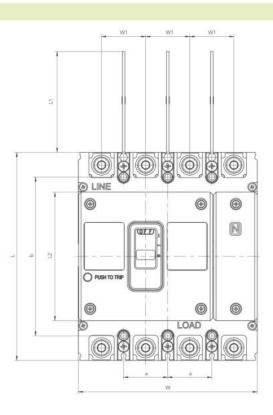
External acc: Fixed rear acc , Plug-in acc, Draw out acc, Interphase barriers, Terminal extensions Rotary handle, Remote operation

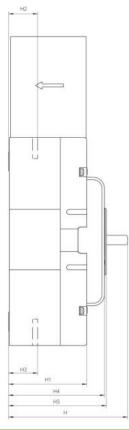


1	Under voltage release(UVR)	6	Fixed rear connection	11	Remote operation
2	Auxiliary switch(AX)	7	Plug-in rear connection	12	Square direct rotary handle
3	Alarm switch(AL)	8	Plug-in front connection	13	Round direct rotary handle
4	Shunt trip(SHT)	9	Extension terminals		
5	Leakage current alarm module	10	Interphase barriers		

Dimensions

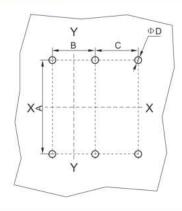






F	Dala						D	imensio	ns					
Frame	Pole	L	L1	L2	W	W1	H	H1	H2	H3	H4	H5	a	b
125	3P	120	50	0.2	75	25	01.5	F.6	24	24	60	70.5	25	111
125	4P	130	50	83	100	25	81.5	56	24	24	68	70.5	25	111
250	3P	165	80	102	107	35	94.5	62	22	23	76	77.5	35	126
250	4P	103	80	102	142	33	94.5	02	23	23	70	11.5	33	126
400	3P	257	104.5	150	140	40	145.9	96.2	26	36/36.5	107.5	112.5	44	215
400	4P	257	104.5	150	184	48	143.9	90.2	36	30/30.3	107.5	112.5	44	215
620	3P	257	104.5	150	140	48	145.9	96.2	20	39	107.5	112.5	44	215
630	4P	257	104.5	150	184	40	145.9	90.2	38	39	107.5	112.5	44	215

Mounting on plate



Frame	Pole	A	В	C	D	
125	3P	111	25	1	4.5	
125	4P	111	25	25	4.5	
250	3P	126	25	1	5.5	
	4P	126	35	35		
400	3P	215	44	1	6.5	
400	4P	215	44	1	6.5	
630	3P	215	44	1	6.5	
	4P	215	44	1	6.5	