

SGV2-II-32/SGV3-II-80 Series Motor protection circuit breaker

Standard	IEC60947-1
Rated insulation voltage U_i (V)	690
Rated impulse withstand voltage U_{imp} (kV)	6
Rated operating voltage U_e (V)	380/400/415V~
Rated frequency(Hz)	50/60
Frame rated current I_{nm} (A)	32A,80A
Starter installation	Categories III
Degree of Protection	IP 20
Ambient air temperature($^{\circ}$ C)	-5 to +40,max.90% humidity
Storage temperature($^{\circ}$ C)	-40~+70
Maximum operating altitude(meters)	≤ 2000
Certification	CE CB



SGV2-II-32



SGV3-II-80

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Hot component setting current adjustment range: rated limit and rated operating short-circuit breaking capacity

Model	Fastener rated current In (A)	Tuning current adjustment range(A)	Rated limit short-circuit breaking capability ICU, rated operation short-circuit breaking capability Ics kA				Arcing distance(mm)
			400/415V		690V		
			Icu	Ics	Icu	Ics	
SGV2-II-32	0.16	0.1~0.16	100	100	100	100	40
	0.25	0.16~0.25	100	100	100	100	
	0.4	0.25~0.4	100	100	100	100	
	0.63	0.4~0.63	100	100	100	100	
	1	0.63~1	100	100	100	100	
	1.6	1~1.6	100	100	100	100	
	2.5	1.6~2.5	100	100	3	2.25	
	4	2.5~4	100	100	3	2.25	
	6.3	4~6.3	100	100	3	2.25	
	10	6~10	100	100	3	2.25	
	14	9~14	15	7.5	3	2.25	
	18	13~18	15	7.5	3	2.25	
	23	17~23	15	6	3	2.25	
	25	20~25	15	6	3	2.25	
	32	24~32	10	6	3	2.25	
SGV3-II-80	25	20~25	50	17.5	4	2.25	50
	32	23~32	50	17.5	4	2	
	40	30~40	50	17.5	4	2	
	50	37~50	50	17.5	4	2	
	65	48~65	50	17.5	4	2	
	80	63~80	50	17.5	4	2	

The standard rated power of the three-phase motor controlled by the circuit breaker

Model	Fastener rated current In (A)	Tuning current adjustment range(A)	Standard rated power of three-phase motor(kw)					
			AC-3,50Hz/60Hz					
			230/240V	400V	415V	440V	500V	690V
SGV2-II-32	0.16	0.1~0.16	-	-	-	-	-	-
	0.25	0.16~0.25	-	-	-	-	-	-
	0.4	0.25~0.4	-	-	-	-	-	-
	0.63	0.4~0.63	-	-	-	-	-	0.37
	1	0.63~1	-	-	-	0.37	0.37	0.55
	1.6	1~1.6	-	0.37	-	0.55	0.75	1.1
	2.5	1.6~2.5	0.37	0.75	0.75	1.1	1.1	1.5
	4	2.5~4	0.75	1.5	1.5	1.5	2.2	3
	6.3	4~6.3	1.1	2.2	2.2	3	3.7	4
	10	6~10	2.2	4	4	4	5.5	7.5
	14	9~14	3	5.5	5.5	7.5	7.5	9
	18	13~18	4	7.5	9	9	9	11
	23	17~23	5.5	11	11	11	11	15
	25	20~25	5.5	11	11	11	15	18.5
SGV3-II-80	32	24~32	7.5	15	15	15	18.5	25
	25	20~25	-	11	11	-	-	18.5
	32	23~32	-	15	15	-	-	22
	40	30~40	-	18.5	18.5	-	-	37
	50	37~50	-	22	22	-	-	45
	65	48~65	-	30	30	-	-	55
	80	63~80	-	37	37	-	-	63

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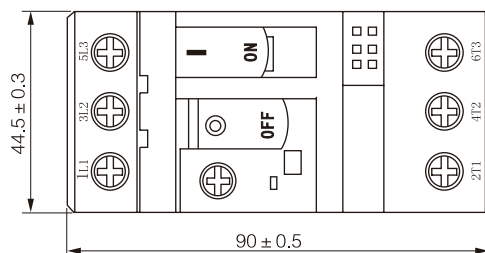
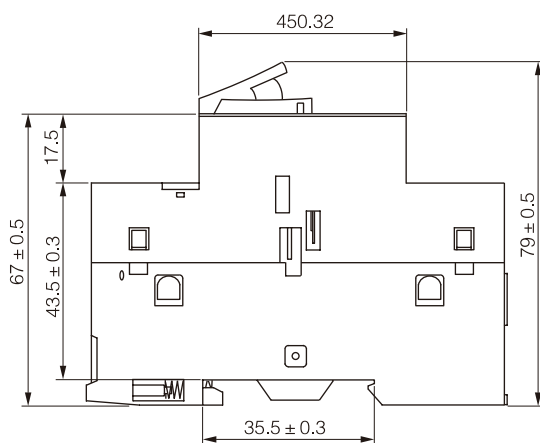
The operating performance of the circuit breaker

Model	Rack rated current Inm A	Hourly operation cycles	Operation cycle number	
			Electrical life	Mechanical Life
SGV2-II-32	32	120	10000	100000
SGV3-II-80	80	120	1500	8500

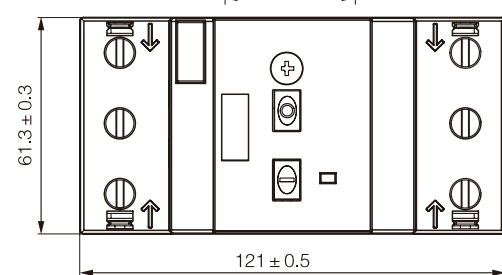
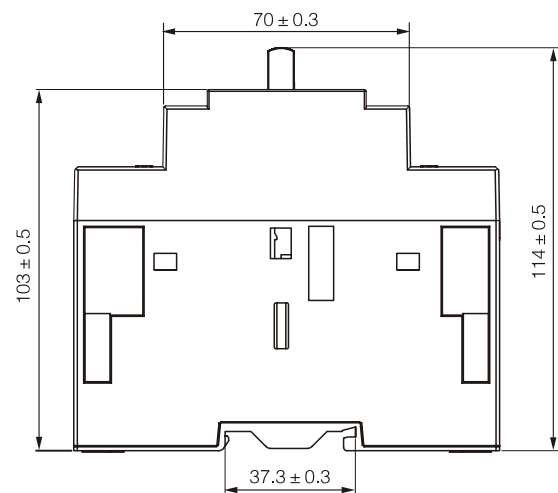
Action characteristics of balanced load of each phase of the circuit breaker (Motor protection)

Type	Circuit breaker for protecting electric motor				Ambient air temperature
	Serial number	Setting current multiple	Tripping time	Status	
SGV2-II-32 SGV3-II-80	1	1.05	2h non-tripping	Initial	20±2℃
	2	1.2	2h tripping	Following serial 1	
	3	1.5	Action within 2 minutes		
	4	7.2	2~10s tripping	Initial	

Overall Dimensions



SGV2-II-32



SGV3-II-80