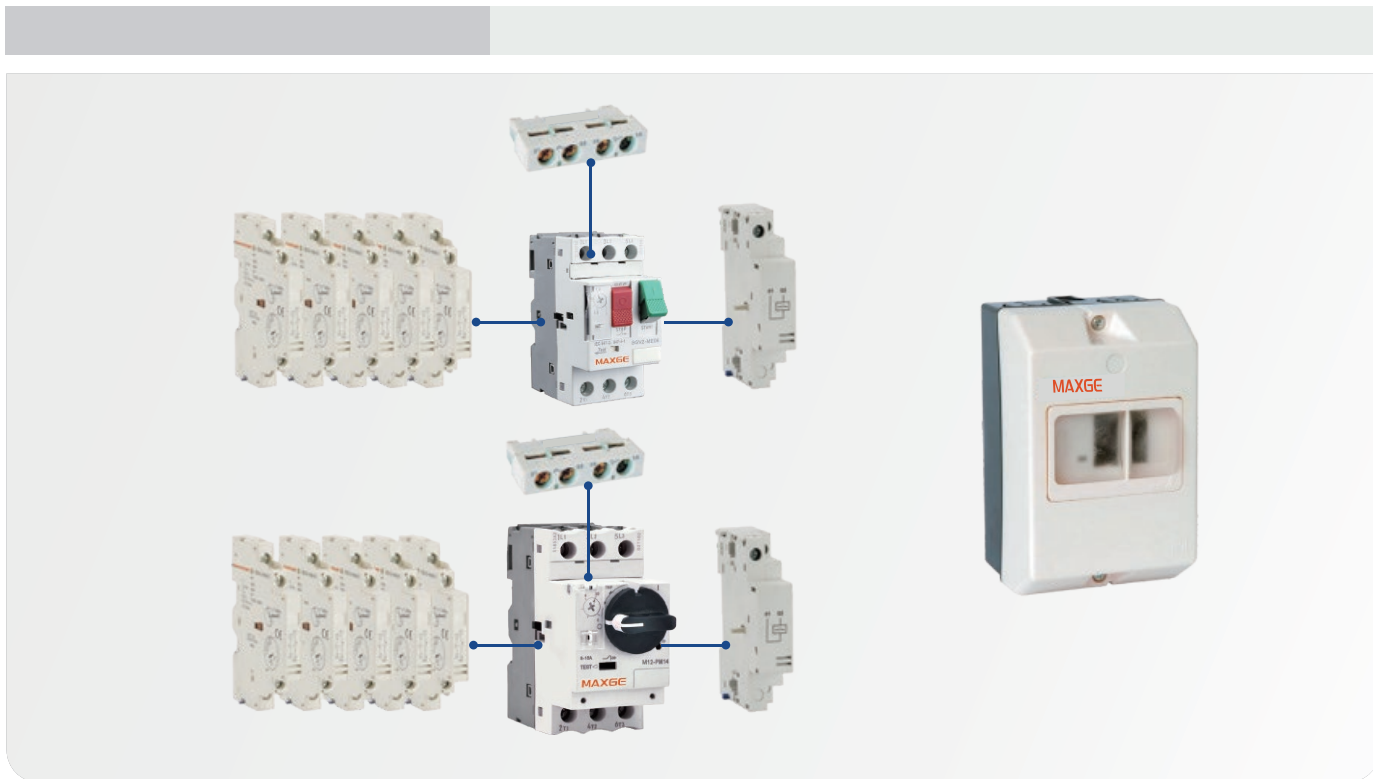


## SGV2-ME/PM Series Motor Protection Circuit Breaker

### Technical data

Standard	IEC60947-2, IEC60947-4-1	
Approvals	CE	
Utilization Category	According to IEC60947-2	A
	According to IEC60947-4-1	AC-3
Rated insulation voltage $U_i$ (V)	690	
Rated operational voltage $U_e$ (V)	230/240,400/415,440,500,660/690	
Rated impulse withstand voltage $U_{imp}$ (kA)	8	
Electrical life in AC-3(times)	10000	
Mechanical life(times)	20000	
Tightening torque(N.m)	1.7	
Degree of Protection	IP 20; IP65 with enclosure	
Ambient air temperature( $^{\circ}$ C )	- 5 to + 40, max. 95% humidity	
Storage temperature( $^{\circ}$ C )	-40~+70	
Maximum operating altitude(meters)	$\leq$ 2000	



## 1. Technical specifications for SGV2-ME, PM series



Type	Current setting range (A)	Instantaneous short-circuit release(A)	Thermal current I <sub>th</sub> (A)	Standard rated power of three-phase (kW)			
				230/240V	400V	415V	440V
SGV2-ME01	0.1-0.16	1.5	0.16	-	-	-	-
SGV2-ME02	0.16-0.25	2.4	0.25	-	-	-	-
SGV2-ME03	0.25-0.4	5.0	0.4	-	-	-	-
SGV2-ME04	0.4-0.63	8.0	0.63	-	-	-	-
SGV2-ME05	0.63-1	13.0	1	-	-	-	0.37
SGV2-ME06	1-1.6	22.5	1.6	-	0.37	-	0.55
SGV2-ME07	1.6-2.5	33.5	2.5	0.37	0.75	0.75	1.10
SGV2-ME08	2.5-4	51.0	4	0.75	1.50	1.50	1.50
SGV2-ME10	4-6.3	78.0	6.3	1.10	2.20	2.20	3.00
SGV2-ME14	6-10	138	9	2.20	4.00	4.00	4.00
SGV2-ME16	9-14	170	13	3.00	5.50	5.50	7.50
SGV2-ME20	13-18	223	17	4.00	7.50	9.00	9.00
SGV2-ME21	17-23	327	21	5.50	11.00	11.00	11.00
SGV2-ME22	20-25	327	23	5.50	11.00	11.00	11.00
SGV2-ME32	24-32	416	24	7.50	15.00	15.00	15.50
SGV3-ME40	25-40	480	32	1.00	18.50	22.00	22.00
SGV3-ME63	40-63	550	50	15.00	30.00	33.00	33.00
SGV3-ME80	56-80	665.5	64	22.00	40.00	45.00	45.00



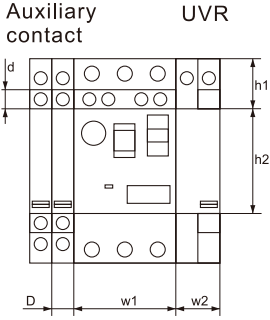
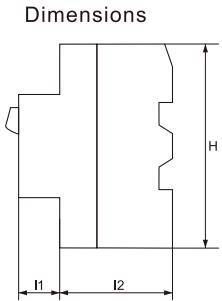
Type	Current setting range (A)	Instantaneous short-circuit release(A)	Thermal current I <sub>th</sub> (A)	Standard rated power of three-phase(kW)			
				230/240V	400V	415V	440V
SGV2-PM01	0.1-0.16	1.5	0.16	-	-	-	-
SGV2-PM02	0.16-0.25	2.4	0.25	-	-	-	-
SGV2-PM03	0.25-0.4	5.0	0.4	-	-	-	-
SGV2-PM04	0.4-0.63	8.0	0.63	-	-	-	-
SGV2-PM05	0.63-1	13.0	1	-	-	-	0.37
SGV2-PM06	1-1.6	22.5	1.6	-	0.37	-	0.55
SGV2-PM07	1.6-2.5	33.5	2.5	0.37	0.75	0.75	1.10
SGV2-PM08	2.5-4	51.0	4	0.75	1.50	1.50	1.50
SGV2-PM10	4-6.3	78.0	6.3	1.10	2.20	2.20	3.00
SGV2-PM14	6-10	138	9	2.20	4.00	4.00	4.00
SGV2-PM16	9-14	170	13	3.00	5.50	5.50	7.50
SGV2-PM20	13-18	223	17	4.00	7.50	9.00	9.00
SGV2-PM21	17-23	327	21	5.50	11.00	11.00	11.00
SGV2-PM22	20-25	327	23	5.50	11.00	11.00	11.00
SGV2-PM32	24-32	416	24	7.50	15.00	15.00	15.50

## 2.SGV2-ME,PM Breaking Capacity

Type		A	01-06	07	08	10	14	16	20	21 & 22	32	
Breaking Capacity Comply to IEC60947-2	230/ 240V		I <sub>cu</sub>	kA	★	★	★	★	★	★	★	★
		I <sub>cs</sub> %(1)		★	★	★	★	★	★	★	★	
	400/ 415V	I <sub>cu</sub>	kA	★	★	★	★	★	15	15	15	10
		I <sub>cs</sub> %(1)		★	★	★	★	★	50	50	40	50
	440V	I <sub>cu</sub>	kA	★	★	★	50	15	8	8	6	6
		I <sub>cs</sub> %(1)		★	★	★	100	100	50	50	50	50
	500V	I <sub>cu</sub>	kA	★	★	★	50	10	6	6	4	4
		I <sub>cs</sub> %(1)		★	★	★	100	100	75	75	75	75
	690V	I <sub>cu</sub>	kA	★	3	3	3	3	3	3	3	3
		I <sub>cs</sub> %(1)		★	75	75	75	75	75	75	75	75

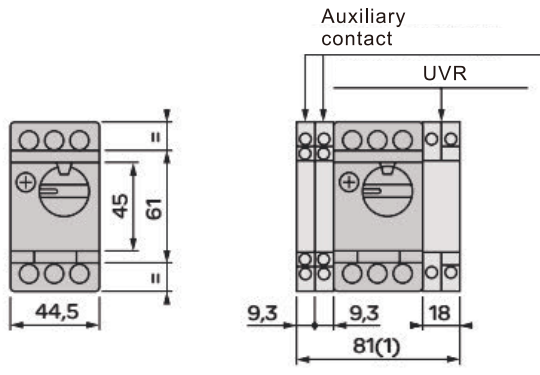
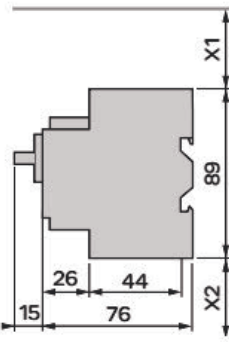
### 3. Overall and mounting dimensions

◆ SGV2-ME Series

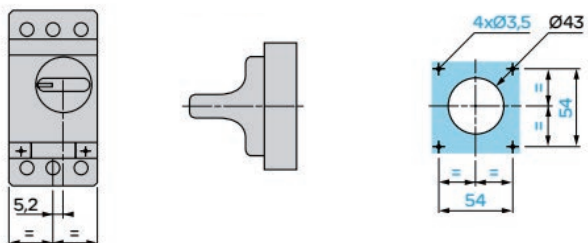
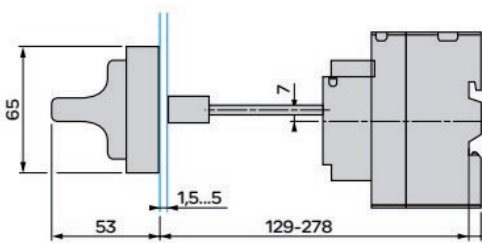


Dimension(mm)				
H	l1	l2	d	D
89	16	50	10	9,2
w1	w2	h1	h2	
44,5	18	22	45	

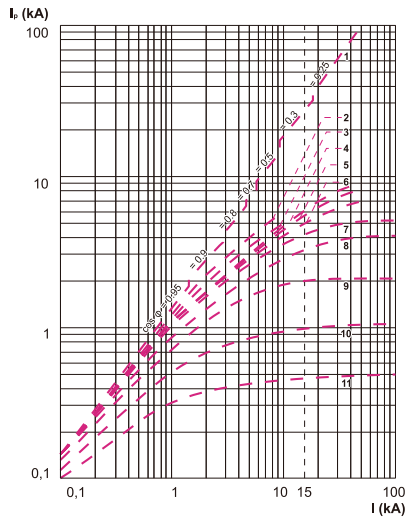
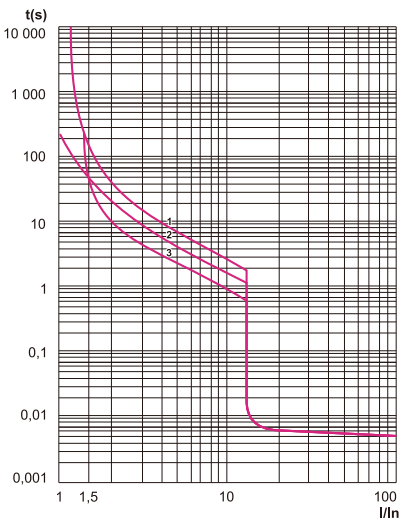
◆ SGV2-PM Series







◆ SGV2-PMN Series



### 4. Curve characteristics



## Auxiliary Devices of Motor Protection Circuit Breaker

<b>Voltage-release</b> 	Type	Rated operational voltage $U_e$ (V)	Voltage range of operation	Rated insulation voltage $U_i$ (V)	Frequency (Hz)
	SGV2-ME AU115	110-127	35%-70% $U_e$	690	50/60
	SGV2-ME AU225	220-240	35%-70% $U_e$	690	50/60
	SGV2-ME AU385	380-415	35%-70% $U_e$	690	50/60
<b>Auxiliary contact</b> 	Type	Mounting Type	Auxiliary Contacts		Conventional thermal current $I_{th}$ (A)
	SGV2-AE11	Top	1	1	2.5
	SGV2-AE20	Top	2	0	2.5
<b>Auxiliary contact</b> 	SGV2-ME AN11	Side	1	1	6
	SGV2-ME AN20	Side	2	0	6
<b>Enclosure</b> 	Type	Protection of degree	Material		Suitable SGV2-M
	SGV2-ME E	IP 65	wear resistance of UV rays and non-flammable	silicon	Up to 32A

