

| SGV2-I-ME/PM Series                            |  | Motor protection circuit breaker                                                                                                                                                                                                                                  |  |
|------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Standard                                       |  | IEC60947-1                                                                                                                                                                                                                                                        |  |
| 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                        |  | 10000                                                                                                                                                                                                                                                             |  |
| Mechanical life                                |  | 20000                                                                                                                                                                                                                                                             |  |
| Tightening torque(N.m)                         |  | 1.7                                                                                                                                                                                                                                                               |  |
| Utilization Category                           |  | AC-3                                                                                                                                                                                                                                                              |  |
| 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)             |  | $\leq 2000$                                                                                                                                                                                                                                                       |  |
| Certification                                  |  |    |  |



SGV2-I-ME



SGV2-I-PM

## SGV2-I-ME/PM Series

## Motor protection circuit breaker

Technical specifications for SGV2-I-ME

| 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-I-ME01 | 0.1-0.16                 | 1.5                                    | 0.16                                | -                                        | -     | -     | -     |
| SGV2-I-ME02 | 0.16-0.25                | 2.4                                    | 0.25                                | -                                        | -     | -     | -     |
| SGV2-I-ME03 | 0.25-0.4                 | 5.0                                    | 0.4                                 | -                                        | -     | -     | -     |
| SGV2-I-ME04 | 0.4-0.63                 | 8.0                                    | 0.63                                | -                                        | -     | -     | -     |
| SGV2-I-ME05 | 0.63-1                   | 13.0                                   | 1                                   | -                                        | -     | -     | 0.37  |
| SGV2-I-ME06 | 1-1.6                    | 22.5                                   | 1.6                                 | -                                        | 0.37  | -     | 0.55  |
| SGV2-I-ME07 | 1.6-2.5                  | 33.5                                   | 2.5                                 | 0.37                                     | 0.75  | 0.75  | 1.10  |
| SGV2-I-ME08 | 2.5-4                    | 51.0                                   | 4                                   | 0.75                                     | 1.50  | 1.50  | 1.50  |
| SGV2-I-ME10 | 4-6.3                    | 78.0                                   | 6.3                                 | 1.10                                     | 2.20  | 2.20  | 3.00  |
| SGV2-I-ME14 | 6-10                     | 138                                    | 9                                   | 2.20                                     | 4.00  | 4.00  | 4.00  |
| SGV2-I-ME16 | 9-14                     | 170                                    | 13                                  | 3.00                                     | 5.50  | 5.50  | 7.50  |
| SGV2-I-ME20 | 13-18                    | 223                                    | 17                                  | 4.00                                     | 7.50  | 9.00  | 9.00  |
| SGV2-I-ME21 | 17-23                    | 327                                    | 21                                  | 5.50                                     | 11.00 | 11.00 | 11.00 |
| SGV2-I-ME22 | 20-25                    | 327                                    | 23                                  | 5.50                                     | 11.00 | 11.00 | 11.00 |
| SGV2-I-ME32 | 24-32                    | 416                                    | 24                                  | 7.50                                     | 15.00 | 15.00 | 15.00 |
| SGV3-I-ME40 | 25-40                    | 480                                    | 32                                  | 11.00                                    | 18.50 | 22.00 | 22.00 |
| SGV3-I-ME63 | 40-63                    | 550                                    | 50                                  | 15.00                                    | 30.00 | 33.00 | 33.00 |
| SGV3-I-ME80 | 56-80                    | 665.5                                  | 64                                  | 22.00                                    | 40.00 | 45.00 | 45.00 |

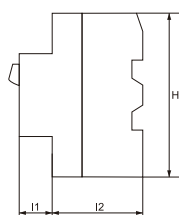
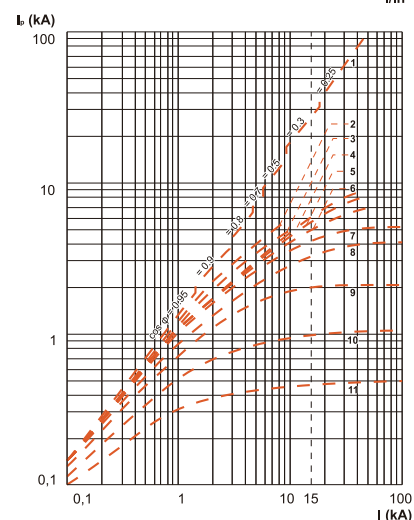
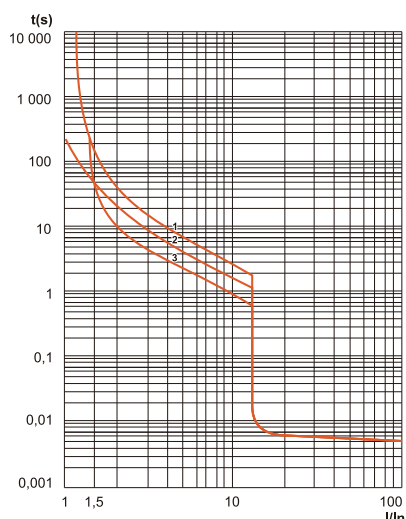
Technical specifications for SGV2-I-PM

| 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-I-PM01 | 0.1-0.16                 | 1.5                                    | 0.16                                | -                                        | -     | -     | -     |
| SGV2-I-PM02 | 0.16-0.25                | 2.4                                    | 0.25                                | -                                        | -     | -     | -     |
| SGV2-I-PM03 | 0.25-0.4                 | 5.0                                    | 0.4                                 | -                                        | -     | -     | -     |
| SGV2-I-PM04 | 0.4-0.63                 | 8.0                                    | 0.63                                | -                                        | -     | -     | -     |
| SGV2-I-PM05 | 0.63-1                   | 13.0                                   | 1                                   | -                                        | -     | -     | 0.37  |
| SGV2-I-PM06 | 1-1.6                    | 22.5                                   | 1.6                                 | -                                        | 0.37  | -     | 0.55  |
| SGV2-I-PM07 | 1.6-2.5                  | 33.5                                   | 2.5                                 | 0.37                                     | 0.75  | 0.75  | 1.10  |
| SGV2-I-PM08 | 2.5-4                    | 51.0                                   | 4                                   | 0.75                                     | 1.50  | 1.50  | 1.50  |
| SGV2-I-PM10 | 4-6.3                    | 78.0                                   | 6.3                                 | 1.10                                     | 2.20  | 2.20  | 3.00  |
| SGV2-I-PM14 | 6-10                     | 138                                    | 9                                   | 2.20                                     | 4.00  | 4.00  | 4.00  |
| SGV2-I-PM16 | 9-14                     | 170                                    | 13                                  | 3.00                                     | 5.50  | 5.50  | 7.50  |
| SGV2-I-PM20 | 13-18                    | 223                                    | 17                                  | 4.00                                     | 7.50  | 9.00  | 9.00  |
| SGV2-I-PM21 | 17-23                    | 327                                    | 21                                  | 5.50                                     | 11.00 | 11.00 | 11.00 |
| SGV2-I-PM22 | 20-25                    | 327                                    | 23                                  | 5.50                                     | 11.00 | 11.00 | 11.00 |
| SGV2-I-PM32 | 24-32                    | 416                                    | 24                                  | 7.50                                     | 15.00 | 15.00 | 15.50 |

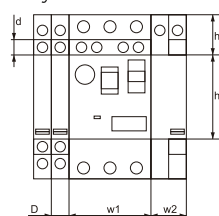
# SGV2-I-ME/PM Series

## Motor protection circuit breaker

| Type                                         |          |             |    | SGV2-I-ME/PM |         |     |     |     |    |    |       |       |     |
|----------------------------------------------|----------|-------------|----|--------------|---------|-----|-----|-----|----|----|-------|-------|-----|
|                                              |          |             |    | 01-06        | 07      | 08  | 10  | 14  | 16 | 20 | 21&22 | 32    |     |
| Rated Current(A)                             |          |             |    | A            | 0.1-1.6 | 2.5 | 4   | 6.3 | 10 | 14 | 18    | 23&25 | 32  |
| Breaking Capacity<br>Comply to<br>IEC60947-2 | 230/240V | Icu         | kA | ★            | ★       | ★   | ★   | ★   | ★  | ★  | ★     | 50    | 50  |
|                                              |          | Ics<br>%(1) |    | ★            | ★       | ★   | ★   | ★   | ★  | ★  | ★     | 100   | 100 |
|                                              | 400/415V | Icu         | kA | ★            | ★       | ★   | ★   | ★   | ★  | 15 | 15    | 15    | 10  |
|                                              |          | Ics<br>%(1) |    | ★            | ★       | ★   | ★   | ★   | ★  | 50 | 50    | 40    | 50  |
|                                              | 440V     | Icu         | kA | ★            | ★       | ★   | 50  | 15  | 8  | 8  | 6     | 6     |     |
|                                              |          | Ics<br>%(1) |    | ★            | ★       | ★   | 100 | 100 | 50 | 50 | 50    | 50    |     |
|                                              | 500V     | Icu         | kA | ★            | ★       | ★   | 50  | 10  | 6  | 6  | 4     | 4     |     |
|                                              |          | Ics<br>%(1) |    | ★            | ★       | ★   | 100 | 100 | 75 | 75 | 75    | 75    |     |
|                                              | 690V     | Icu         | kA | ★            | 3       | 3   | 3   | 3   | 3  | 3  | 3     | 3     | 3   |
|                                              |          | Ics<br>%(1) |    | ★            | 75      | 75  | 75  | 75  | 75 | 75 | 75    | 75    | 75  |



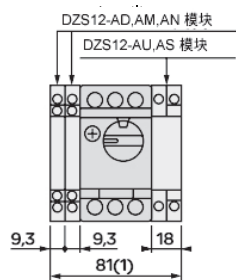
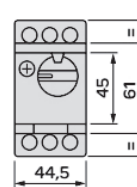
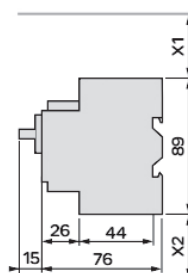
Auxiliary contact UVR



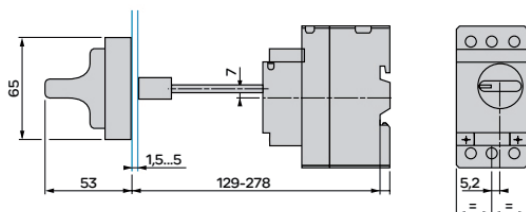
Dimension(mm)

| H    | l1 | 12 | d  |
|------|----|----|----|
| 89   | 16 | 50 | 10 |
| W1   | w2 | h1 | h2 |
| 44,5 | 18 | 22 | 45 |

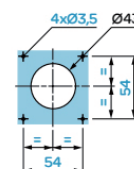
SGV2-I-ME



SGV2-I-PM



SGV2-I-PMN



| Auxiliary Devices                                                                   |                 | Motor protection circuit breaker    |                                              |                                    |                                           |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------|----------------------------------------------|------------------------------------|-------------------------------------------|
| Voltage-release                                                                     | Type            | Rated operational voltage $U_e$ (V) | Voltage range of operation                   | Rated insulation voltage $U_i$ (V) | Rated frequency(Hz)                       |
|    | SGV2-I-ME AU115 | 110-127                             | 35%-70% $U_e$                                | 690                                | 50/60                                     |
|                                                                                     | SGV2-I-ME AU225 | 220-240                             | 35%-70% $U_e$                                | 690                                | 50/60                                     |
|                                                                                     | SGV2-I-ME AU385 | 380-415                             | 35%-70% $U_e$                                | 690                                | 50/60                                     |
| Auxiliary contact                                                                   | Type            | Mounting Type                       | Auxiliary Contacts                           |                                    | Conventional thermal current $I_{th}$ (A) |
|  | SGV2-I-AE11     | Top                                 | 1                                            | 1                                  | 2.5                                       |
|                                                                                     | SGV2-I-AE20     | Top                                 | 2                                            | 0                                  | 2.5                                       |
|  | SGV2-I-ME AN11  | Side                                | 1                                            | 1                                  | 6                                         |
|                                                                                     | SGV2-I-ME AN20  | Side                                | 2                                            | 0                                  | 6                                         |
| Enclosure                                                                           | Type            | Protection of degree                | Material                                     |                                    | Suitable SGV2-I-M                         |
|                                                                                     |                 |                                     | Plastic box                                  | Screen                             |                                           |
|  | SGV2-I-ME E     | IP65                                | Wear resistance of UV rays and non-flammable | Silicon                            | Up to 32A                                 |