
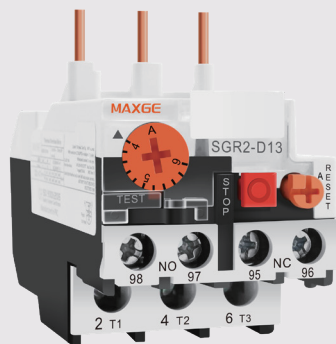


| SGR2-D Series                                 | Thermal Relay                                                                         |
|-----------------------------------------------|---------------------------------------------------------------------------------------|
| Standard                                      | IEC60947-4-1                                                                          |
| Rated insulation voltage $U_i(V)$             | 690/1000                                                                              |
| Rated impulse withstand voltage $U_{imp}(kV)$ | 6/8                                                                                   |
| Tripping class                                | 10A                                                                                   |
| Signalling                                    | Trip indicator                                                                        |
| Tightening torque(N.m)                        | 0.8                                                                                   |
| Degree of protection                          | IP20                                                                                  |
| Ambient air temperature                       | -5 to+40,max.95%humidity                                                              |
| Storage temperature                           | -40~+75                                                                               |
| Maximum operating altitude(meters)            | $\leq 2000$                                                                           |
| Flame resistance                              | V1                                                                                    |
| Mounting                                      | Directly under the contactor                                                          |
| Certification                                 |  |



SGR2-D



SGR2-F


## SGR2-D Series

## Thermal Relay

SGR2-D thermal relay matched with contactor SGC1-D

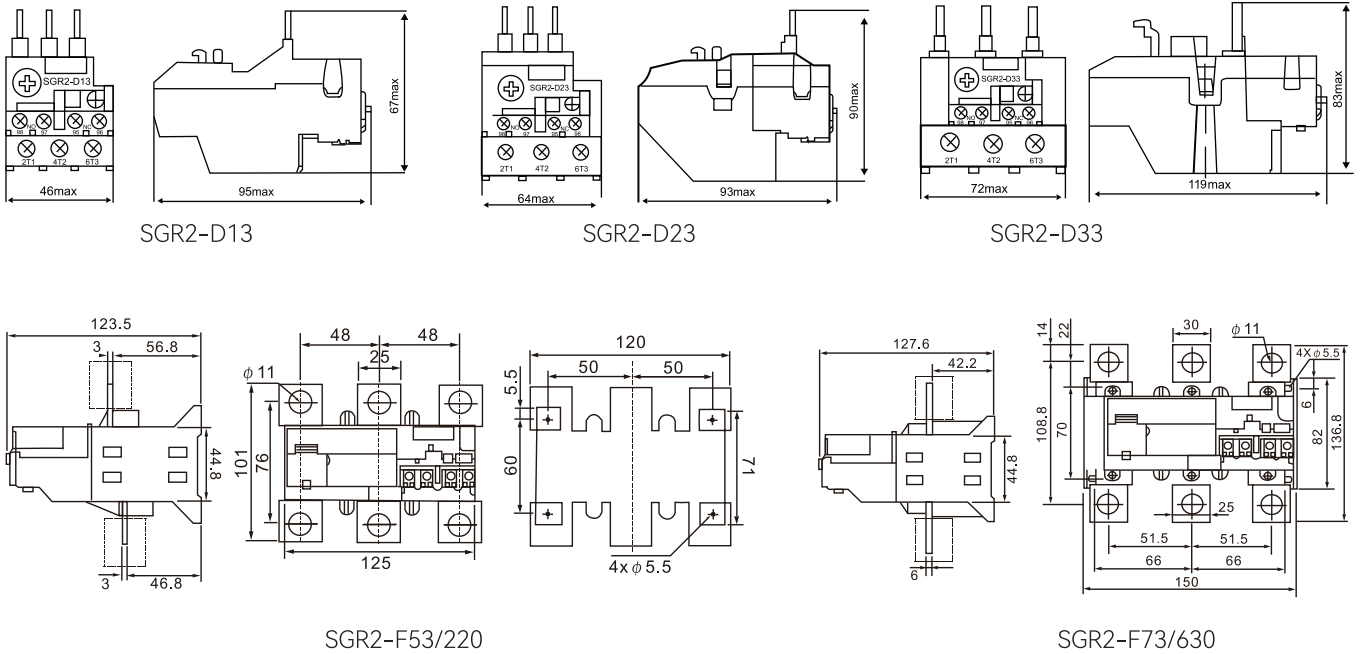
| Rated frame current (A) | Rated working current of thermal relay | Rated current (A) | Current setting range(A) | Matched fuse type |       | Matched AC contactor |
|-------------------------|----------------------------------------|-------------------|--------------------------|-------------------|-------|----------------------|
|                         |                                        |                   |                          | aM(A)             | gG(A) |                      |
| 25                      | SGR2-D 1301                            | 0.16              | 0.10~0.16                | 0.25              | 2     | SGC1-D09             |
|                         | SGR2-D 1302                            | 0.25              | 0.16~0.25                | 0.5               | 2     | SGC1-D09             |
|                         | SGR2-D 1303                            | 0.40              | 0.25~0.40                | 1                 | 2     | SGC1-D09             |
|                         | SGR2-D 1304                            | 0.63              | 0.40~0.63                | 1                 | 2     | SGC1-D09             |
|                         | SGR2-D 1305                            | 1.0               | 0.63~1.0                 | 2                 | 4     | SGC1-D09             |
|                         | SGR2-D 1306                            | 1.6               | 1.0~1.6                  | 2                 | 4     | SGC1-D09             |
|                         | SGR2-D 1306X                           | 2.0               | 1.25~2.0                 | 4                 | 6     | SGC1-D09             |
|                         | SGR2-D 1307                            | 2.5               | 1.6~2.5                  | 4                 | 6     | SGC1-D09             |
|                         | SGR2-D 1308                            | 4.0               | 2.5~4.0                  | 6                 | 10    | SGC1-D09             |
|                         | SGR2-D 1310                            | 6.0               | 4.0~6.0                  | 8                 | 16    | SGC1-D09             |
|                         | SGR2-D 1312                            | 8.0               | 5.5~8.0                  | 12                | 20    | SGC1-D09             |
|                         | SGR2-D 1314                            | 10                | 7~10                     | 12                | 20    | SGC1-D12             |
|                         | SGR2-D 1316                            | 13                | 9~13                     | 16                | 25    | SGC1-D18             |
|                         | SGR2-D 1321                            | 18                | 12~18                    | 20                | 35    | SGC1-D18             |
|                         | SGR2-D 1322                            | 25                | 17~25                    | 25                | 50    | SGC1-D25             |
| 36                      | SGR2-D 2353                            | 32                | 23~32                    | 40                | 63    | SGC1-D32             |
|                         | SGR2-D 2355                            | 40                | 30~40                    | 40                | 80    | SGC1-D40             |
| 93                      | SGR2-D 3353                            | 32                | 23~32                    | 40                | 63    | SGC1-D32             |
|                         | SGR2-D 3355                            | 40                | 30~40                    | 40                | 100   | SGC1-D40             |
|                         | SGR2-D 3357                            | 50                | 37~50                    | 63                | 100   | SGC1-D50             |
|                         | SGR2-D 3359                            | 65                | 48~65                    | 63                | 100   | SGC1-D65             |
|                         | SGR2-D 3361                            | 70                | 55~70                    | 80                | 125   | SGC1-D80             |
|                         | SGR2-D 3363                            | 80                | 63~80                    | 80                | 125   | SGC1-D80             |
|                         | SGR2-D 3365                            | 93                | 80~93                    | 100               | 160   | SGC1-D95             |

SGR2-F thermal relay matched with contactor SGC1-F

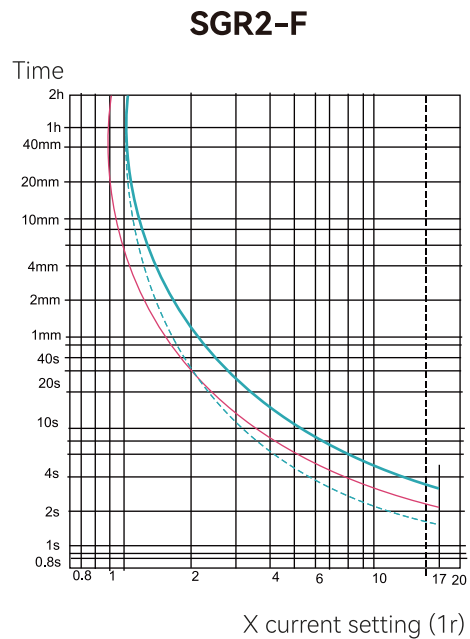
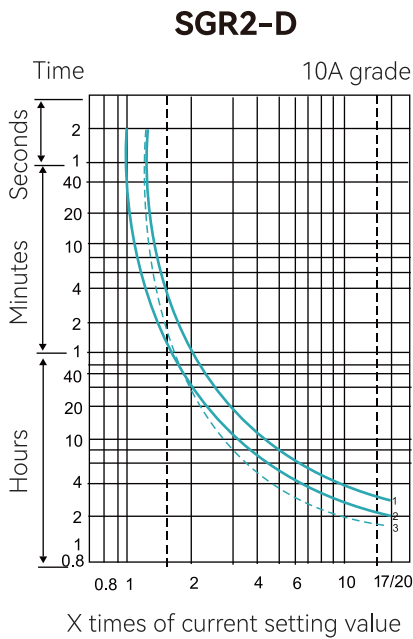
|                                                                                     | Type code    | Current setting range(A) | Matched fuse type |       | Matched AC contactor |
|-------------------------------------------------------------------------------------|--------------|--------------------------|-------------------|-------|----------------------|
|                                                                                     |              |                          | aM(A)             | gG(A) |                      |
|  | SGR2-F53/50  | 30-50                    | 50                | 80    | SGC1-F115~F185       |
|                                                                                     | SGR2-F53/80  | 48-80                    | 80                | 125   | SGC1-F115~F185       |
|                                                                                     | SGR2-F53/100 | 60-100                   | 100               | 200   | SGC1-F115~F185       |
|                                                                                     | SGR2-F53/150 | 90-150                   | 160               | 250   | SGC1-F115~F185       |
|                                                                                     | SGR2-F53/220 | 132-220                  | 250               | 315   | SGC1-F225~F265       |
|                                                                                     | SGR2-F73/330 | 200-330                  | 400               | 500   | SGC1-F225~F500       |
|                                                                                     | SGR2-F73/500 | 300-500                  | 500               | 800   | SGC1-F225~F500       |
|                                                                                     | SGR2-F73/630 | 380-630                  | 630               | 800   | SGC1-F400~F630       |

# SGR2-D Series Thermal Relay

## Overall Dimensions



## Tripping curve for thermal relay



|                     |        |                                                                          |
|---------------------|--------|--------------------------------------------------------------------------|
| Equilibrium running | 3phase | Start form cold state<br>After long period of setting current(hot state) |
|                     | 2phase |                                                                          |
|                     | 3phase |                                                                          |