

|                         |   |                             |   |  |                    |
|-------------------------|---|-----------------------------|---|--|--------------------|
| Product category        | SGM series Moulded Case Circuit Breaker   |                             |   |  |                    |
| Design code             | 6   |                             |   |  |                    |
| Type code               | Fixed Type (/)                            | Thermal Adjustable Type (s) | Thermal & Magnetic Adjustable Type (sm) | Electronic Type with buttons (E)<br>Electronic Type with LCD (i) | With ELCB Type (L) |
| Design code             | 125A,160A,250A,400A,630A,800A,1250A,1600A |                             |   |  |                    |
| Breaking capacity level | L,M,H                                     |                             |   |  |                    |
| Pole                    | 3P,4P                                     |                             |   |  |                    |
| Rated current           | 16-1600A                                  |                             |   |  |                    |

e.g. : SGM 6 s - 125 M / 3P 125A



## Ratings And Specifications Fixed Type

|  |  |  |   |                              |                          |                              |                              |                              |    |    |     |
|--|--|--|---|------------------------------|--------------------------|------------------------------|------------------------------|------------------------------|----|----|-----|
| Frame Size   |  |  |   |                              |                          |                              |                              |                              |    |    |     |
| Model  | SGM6-125   | SGM6-160                                       | SGM6-250                                | SGM6-400                     |                          |                              |                              |                              |    |    |     |
| Number of poles  | 3,4  |  |   |                              |                          |                              |                              |                              |    |    |     |
| Rated current(A) In                                    | 16,20,25,30,32,40,50,60,63,70,75,80,90,100,125   | 30,32,40,50,60,70,75,80,90,100,125,140,150,160 | 100,125,140,150,160,175,180,200,225,250 | 250,280,300,315,350,400      |                          |                              |                              |                              |    |    |     |
| Magnetic tripping current (Ii)                         | 10*In for 40 - 125 A<br>330 A for 16 - 32A   | 10*In for 50 - 160 A<br>500 A for 30 - 40 A    | 10*In                                   |                              |                          |                              |                              |                              |    |    |     |
| Standard   | IEC60947-2   |  |   |                              |                          |                              |                              |                              |    |    |     |
| Reference temperature                                  | 40°C/55°C  |  |   |                              |                          |                              |                              |                              |    |    |     |
| Rated operational voltage                              | 380/400/415V AC  |  |   |                              |                          |                              |                              |                              |    |    |     |
| Rated insulation voltage Ui (V)                        | 800  | 1000   |   |                              |                          |                              |                              |                              |    |    |     |
| Rated impulse withstand voltage Uimp (kV)              | 8  |  |   |                              |                          |                              |                              |                              |    |    |     |
| Breaking capacity level                                | L  | M  | H                                       | L                            | M                        | H                            | L                            | M                            | H  | M  | H   |
| Rated ultimate short-circuit breaking capacity Icu(kA) | 10   | 25   | 36                                      | 36                           | 50                       | 65                           | 36                           | 50                           | 65 | 85 | 100 |
| Rated service short-circuit breaking capacity Ics(kA)  | 10   | 18   | 25                                      | 25                           | 36                       | 50                           | 25                           | 36                           | 50 | 60 | 75  |
| Icu=Ics(KA)  | 10   | 18   | 25                                      | 25                           | 36                       | 50                           | 25                           | 36                           | 50 | 60 | 75  |
| Mechanical Endurance<br>Electrical Endurance           | for 16-100A<br>8500<br>1500  | for 125A<br>7000<br>1000                       | for 30-100A<br>8500<br>1500             | for 125-160A<br>7000<br>1000 | for 100A<br>8500<br>1500 | for 125-250A<br>7000<br>1000 | for 250-315A<br>7000<br>1000 | for 350-400A<br>4000<br>1000 |    |    |     |
| Installation   | Auxiliary contact(OF)<br>Alarm switch(SD)<br>Shunt tirp(MX)<br>Under-voltage release(MN)<br>AC Motor Mechanism<br>Extended Rotary Handle |  |   |                              |                          |                              |                              |                              |    |    |     |

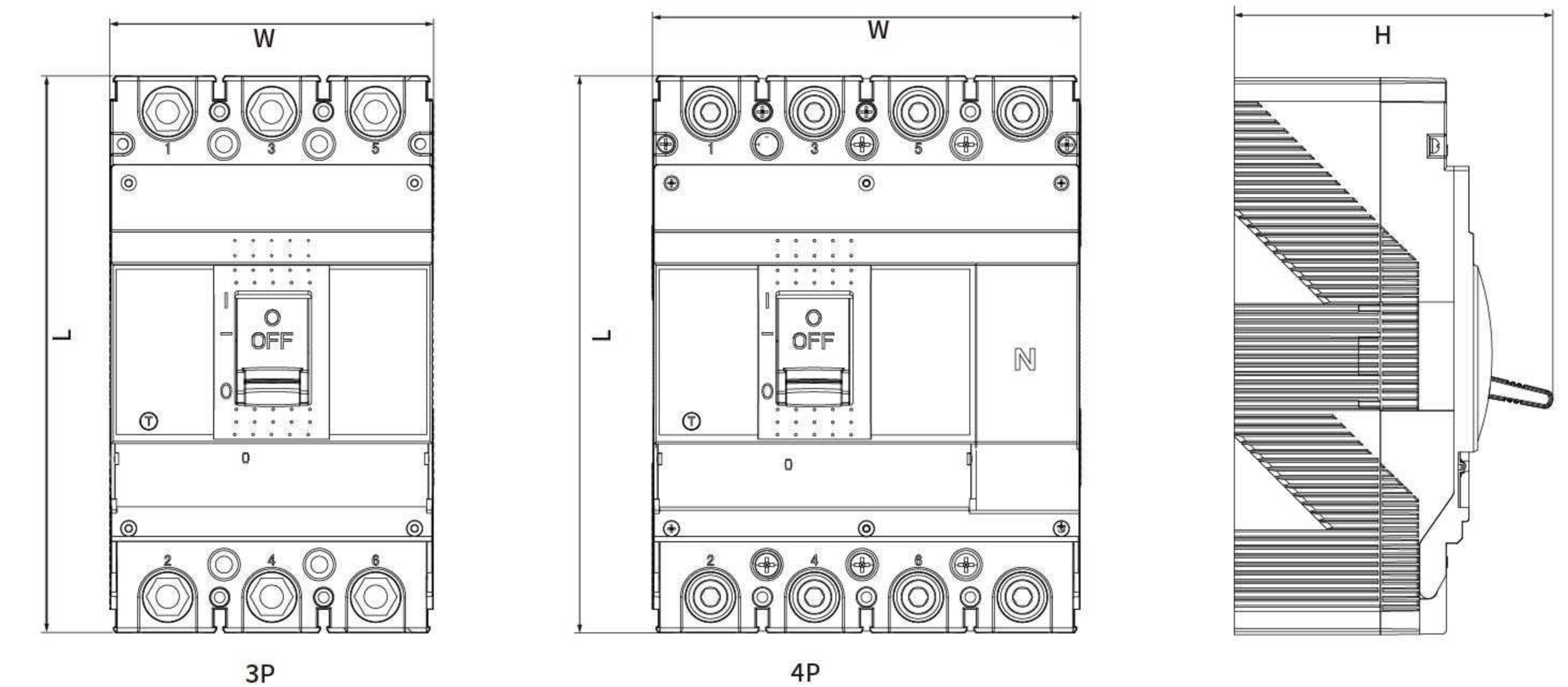


## Ratings And Specifications Fixed Type

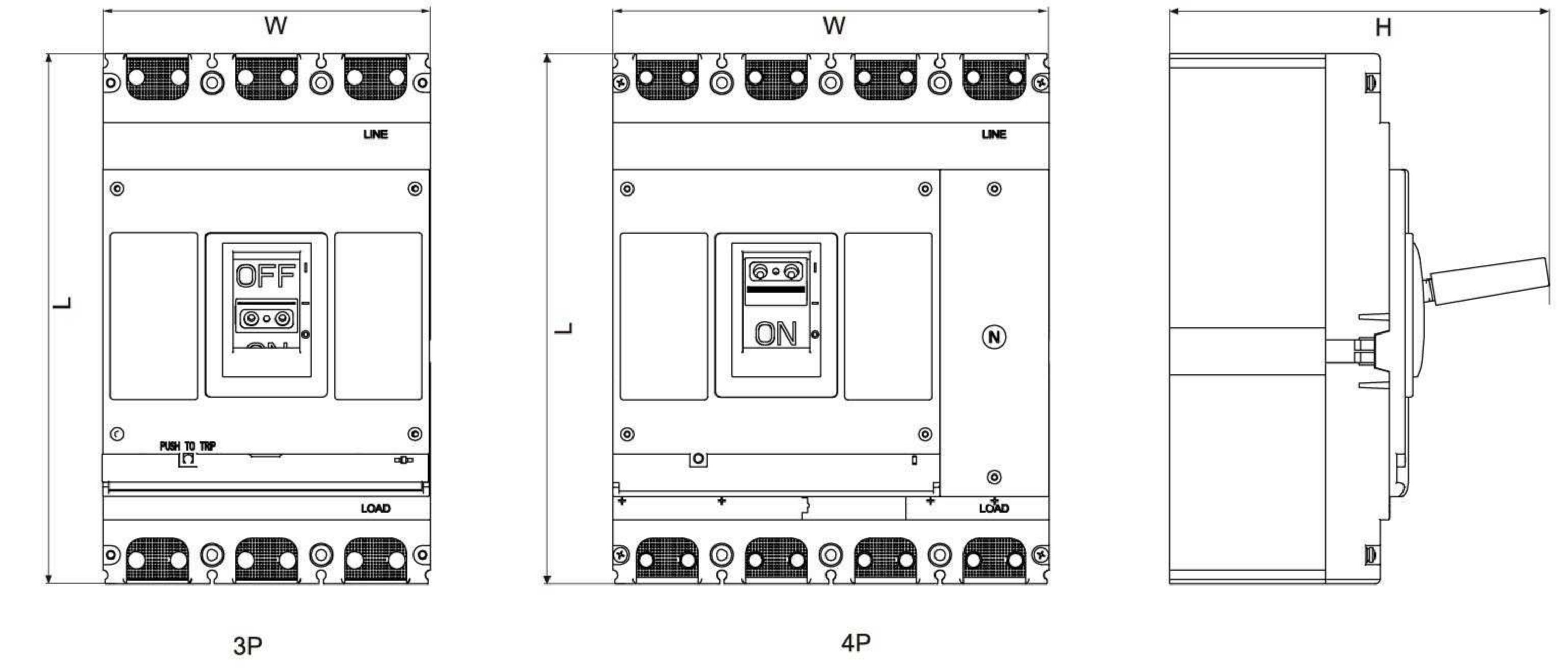
|  |  |                 |               |                |  |    |
|--|--|-----------------|---------------|----------------|--|----|
| Frame Size   |  |                 |               |                |  |    |
| Model  | SGM6-630   | SGM6-800        | SGM6-1250     | SGM6-1600      |  |    |
| Number of poles  | 3,4  |                 |               |                |  |    |
| Rated current(A) In                                    | 500,550,630  | 630,700,770,800 | 800,1000,1250 | 1000,1250,1600 |  |    |
| Magnetic tripping current (Ii)                         | 10*In  |                 |               |                |  |    |
| Standard   | IEC60947-2   |                 |               |                |  |    |
| Reference temperature                                  | 40°C/55°C  |                 |               |                |  |    |
| Rated operational voltage                              | 380/400/415V AC  |                 |               |                |  |    |
| Rated insulation voltage Ui (V)                        | 1000   |                 |               |                |  |    |
| Rated impulse withstand voltage Uimp (kV)              | 8  |                 |               |                |  |    |
| Breaking capacity level                                | M  | H               | M             | H              | M  | M  |
| Rated ultimate short-circuit breaking capacity Icu(kA) | 85   | 100             | 85            | 100            | 70   | 85 |
| Rated service short-circuit breaking capacity Ics(kA)  | 60   | 75              | 60            | 75             | 50   | 65 |
| Icu=Ics(kA)  | 60   | 75              | 60            | 75             |  |    |
| Mechanical Endurance                                   | 4000   | 2500            | 2500          | 2500           | 2500   |    |
| Electrical Endurance                                   | 1000   | 500             | 500           | 500            | 500  |    |
| Installation   | Auxiliary contact(OF)<br>Alarm switch(SD)<br>Shunt trip(MX)<br>Under-voltage release(MN)<br>AC Motor Mechanism<br>Extended Rotary Handle |                 |               |                | Auxiliary contact(OF)<br>Alarm switch(SD)<br>Shunt trip(MX)<br>Under-voltage release(MN)<br>AC Motor Mechanism |    |

## Product Dimension Drawing Fixed Type

**SGM6**  
125,160,250,400,  
630,800



**SGM6**  
1250,1600



| SGM6 Dimensions mm(L×W×H) |        |     |     |     |     |     |     |       |      |
|---------------------------|--------|-----|-----|-----|-----|-----|-----|-------|------|
| Frame Size                |        | 125 | 160 | 250 | 400 | 630 | 800 | 1250  | 1600 |
| 3P                        | Length | 133 | 155 | 165 | 257 | 257 | 280 | 275.5 | 340  |
|                           | Width  | 75  | 95  | 107 | 140 | 150 | 210 | 210   | 210  |
|                           | Height | 82  | 93  | 99  | 148 | 148 | 155 | 155   | 244  |
| 4P                        | Length | 133 | 155 | 165 | 257 | 257 | 280 | 275.5 | 340  |
|                           | Width  | 100 | 122 | 142 | 184 | 198 | 280 | 280   | 280  |
|                           | Height | 82  | 93  | 99  | 148 | 148 | 155 | 155   | 244  |