

**LFM2 Moulded Case Circuit Breaker****1. General**

LFM2 series moulded case circuit breaker, is suitable for the circuit of AC 50/60Hz, rated insulation voltage 660V, rated operating voltage under AC 660V, 250V(DC), rated operating current 12.5-800A. It is for distributing energy of electricity and infrequent making and circuit under normal conditions. LFM2 are provided with the function of the protection against overload and short circuit and undervoltage. The LFM2 complies with standard of IEC60947-2.

**2. Specifications**

Table 1

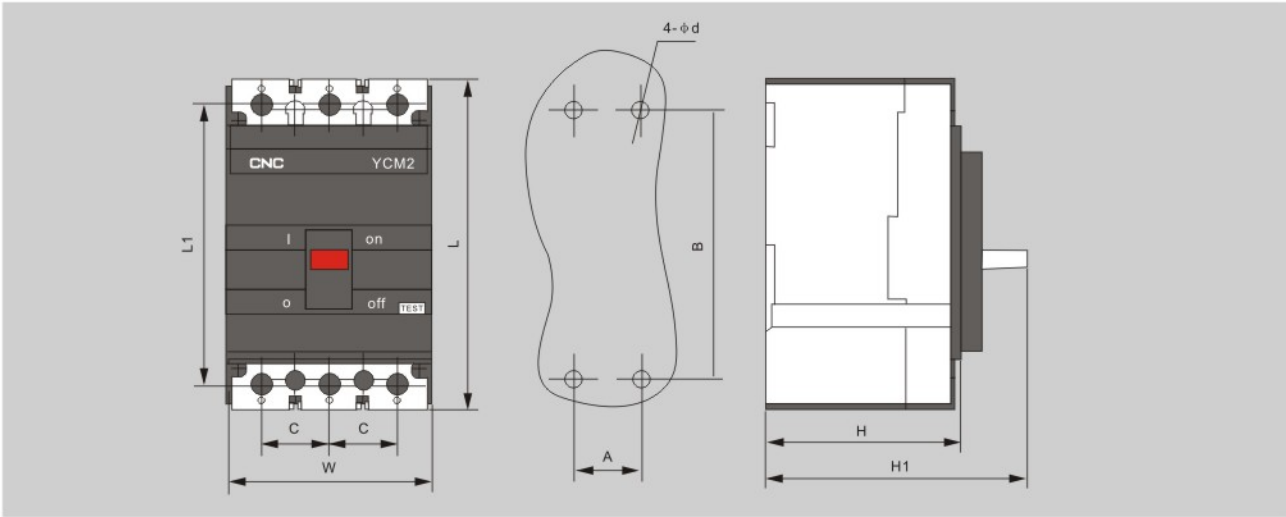
| Rated current of release(A) | Thermo dynamic release (ambient temperature +40℃) |                                            | Operational current of magnetic release(A) |
|-----------------------------|---------------------------------------------------|--------------------------------------------|--------------------------------------------|
|                             | 1.05In(cold state)<br>non-tripping time(h)        | 1.30In(heat state)<br>non-tripping time(h) |                                            |
| $I_n \leq 63$               | $\geq 1$                                          | $< 1$                                      | $10-50I_n \pm 20\%$                        |
| $63 < I_n \leq 250$         | $\geq 2$                                          | $< 2$                                      | $10I_n \pm 20\%$                           |
| $25 < I_n \leq 800$         | $\geq 2$                                          | $< 2$                                      | $5-10I_n \pm 20\%$                         |

Table 2

| Rated current of release(A) | Thermo dynamic release (ambient temperature +40℃) |                                            |                                            |                                            | Operational current of magnetic release (A) |
|-----------------------------|---------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|---------------------------------------------|
|                             | 1.0In(cold state)<br>non-tripping time(h)         | 1.20In(heat state)<br>non-tripping time(h) | 1.50In(heat state)<br>non-tripping time(h) | 1.01In(heat state)<br>non-tripping time(h) |                                             |
| $12.5 < I_n \leq 400$       | $\geq 2$                                          | $< 2$                                      | $< 4\text{min}$                            | $2S < T_p \leq 10S$                        | $12I_n \pm 20\%$                            |

**LFM2 Moulded Case Circuit Breaker**

| Type      | Rated current<br>(A)                                 | Poles       | Rated insulation<br>voltage<br>(V) | Rated operation<br>voltage<br>(V) | Arcing<br>over<br>distance<br>(mm) | Ultimate short<br>circuit<br>breaking<br>capacity (kA) |    |    | Servies short<br>circuit<br>breaking<br>capacity(kA) | Operation life<br>(times) |            |      |
|-----------|------------------------------------------------------|-------------|------------------------------------|-----------------------------------|------------------------------------|--------------------------------------------------------|----|----|------------------------------------------------------|---------------------------|------------|------|
|           |                                                      |             |                                    |                                   |                                    |                                                        |    |    |                                                      | Electrical                | Mechanical |      |
| LFM2-125E | 12.5, 16, 20, 25,<br>32, 40, 50, 63,<br>80, 100, 125 | 2<br>3<br>4 | 660                                | 380<br>660                        | ≥30                                | 15                                                     | -  | -  | 7.5                                                  | -                         | 3000       | 7000 |
| LFM2-125S |                                                      |             |                                    |                                   |                                    | 25                                                     | -  | 20 | 16                                                   | -                         |            |      |
| LFM2-160S | 16, 20, 32, 40,<br>50, 63, 80, 100,<br>125, 160      |             |                                    |                                   | 35                                 | 8                                                      | 20 | 18 | -                                                    | 4000                      | 6000       |      |
| LFM2-160H |                                                      |             |                                    |                                   |                                    |                                                        |    |    |                                                      |                           |            | 50   |
| LFM2-250S | 100, 125, 160,<br>180, 200, 225,<br>250              |             |                                    |                                   | 35                                 | 10                                                     | 40 | 18 | -                                                    | 2000                      | 6000       |      |
| LFM2-250M |                                                      |             |                                    |                                   | 50                                 | 16                                                     | 40 | 30 | -                                                    |                           |            |      |
| LFM2-250H |                                                      |             |                                    |                                   | 65                                 | 18                                                     | 40 | 48 | -                                                    |                           |            |      |
| LFM2-400S | 200, 225, 250,<br>315, 350, 400                      |             |                                    |                                   | 35                                 | 16                                                     | 40 | 18 | -                                                    | 1000                      | 4000       |      |
| LFM2-400M |                                                      |             |                                    |                                   | 50                                 | 20                                                     | 40 | 30 | -                                                    |                           |            |      |
| LFM2-400H |                                                      |             |                                    |                                   | 65                                 | 25                                                     | 40 | 48 | -                                                    |                           |            |      |
| LFM2-630S | 400, 500, 630                                        |             |                                    |                                   | 50                                 | 20                                                     | 40 | 30 | -                                                    | 1000                      | 4000       |      |
| LFM2-630M |                                                      |             |                                    |                                   | 65                                 | 25                                                     | 40 | 48 | -                                                    |                           |            |      |
| LFM2-630H |                                                      |             |                                    |                                   | 80                                 | 30                                                     | 40 | 60 | -                                                    |                           |            |      |
| LFM2-800S | 500, 630,<br>700, 800                                |             |                                    |                                   | 50                                 | 20                                                     | 40 | 30 | -                                                    | 1000                      | 4000       |      |
| LFM2-800M |                                                      |             |                                    |                                   | 65                                 | 25                                                     | 40 | 48 | -                                                    |                           |            |      |
| LFM2-800H |                                                      |             |                                    |                                   | 80                                 | 30                                                     | 40 | 60 | -                                                    |                           |            |      |

**3. Overall and mounting dimensions(mm)**

| Type         | Outline dimensions |     |       |     |     | Installation dimensions |       |     |     |
|--------------|--------------------|-----|-------|-----|-----|-------------------------|-------|-----|-----|
|              | W                  | L   | H     | H1  | L1  | C                       | A     | B   | d   |
| LFM2-125     | 78                 | 120 | 71    | 91  | 102 | 25                      | 25    | 100 | 4.5 |
| LFM2-160     | 90                 | 120 | 71    | 93  | 102 | 30                      | 30    | 100 | 4.5 |
| LFM2-250     | 105                | 170 | 103.5 | 135 | 139 | 35                      | 35    | 139 | 5.5 |
| LFM2-400     | 140                | 254 | 101.5 | 135 | 218 | 43.75                   | 43.75 | 214 | 5.5 |
| LFM2-630/800 | 210                | 268 | 103.5 | 159 | 241 | 70                      | 70    | 237 | 5.5 |