

# S Series Moulded Case Circuit Breaker



S-125L/3P



S-160L/3P



S-125L/3P



S-250L/3P

## Application

S series moulded case circuit breaker, it's applicable circuit of AC 50Hz (or 60Hz), rated insulation voltage 690V(S-125 500V), rated operating voltage AC 390V or below, rated operating current 12.5-1600A, for distribute energy of electric and infrequent making and breaking circuit in normal condition. The circuit-breakers are provided with the function of the protection against overload and short circuit and under-voltage. The circuit breakers comply with standard of IEC60947-2. The circuit-breakers are double insulating ( $I_{nm}=250A$  or above), the control circuit of the accessories is set apart with the main circuit, and doesn't need to open the cover of the circuit-breaker when install the accessories.

## Specification

Table 1

| Type        | Pole number | Rated insulating voltage (V) | Rated operating voltage (V) | Ultimate short circuit breaking capacity Icu(KA) |              | Rated short-circuit service breaking capacity Ics(%Icu) | Utilization category |
|-------------|-------------|------------------------------|-----------------------------|--|--------------|---|----------------------|
|             |             |                              |                             | AC380V (400)                                     | AC660V (690) |   |                      |
| S-125L      | 1,2,3,4     | 500                          | 500                         | 25   |              | 50%   | A                    |
| S-160L      | 3,4         | 690                          | 690 and below               | 35   | 8            | 75%   |                      |
| S-160M      |             |                              |                             | 50   | 10           | 75%   |                      |
| S-250L      |             |                              |                             | 35   | 14           | 100%  |                      |
| S-250M      |             |                              |                             | 65   | 18           | 75%   |                      |
| S-250H      |             |                              |                             | 85   | 20           | 75%   |                      |
| S-400L      |             |                              |                             | 35   | 18           | 100%  |                      |
| S-400M      |             |                              |                             | 65   | 22           | 100%  |                      |
| S-400H      |             |                              |                             | 100  | 30           | 75%   |                      |
| S-630L      |             |                              |                             | 35   | 20           | 100%  |                      |
| S-630M      |             |                              |                             | 50   | 22           | 100%  |                      |
| S-630H      | 65          | 25                           | 100%                        |  |              |   |                      |
| S-800L      | 35          | 20                           | 100%                        |  |              |   |                      |
| S-800M      | 50          | 22                           | 100%                        |  |              |   |                      |
| S-800H      | 65          | 25                           | 100%                        |  |              |   |                      |
| S-1250/1600 | 3           |                              |                             | 50   | 20           | 100%  |                      |

## Trip units main technical parameter (see table 2)

| L  |             | I  |      | TEST 15V ds | t |
|--|-------------|--|------|-------------|---|
| 0.4<br>0.5<br>0.6<br>0.7<br>0.8<br>0.9<br>0.9s<br>x In | I1          | OFF<br>1.5<br>2<br>4<br>6<br>8<br>10<br>12 | I3   |             |   |
| A 3s<br>B 6s<br>C 12s<br>D 18s                         | t1<br>I=6I1 |  | x In | S PR211     |   |

  

| L   |             | I   |                  | I4   |            | Prg test | t |
|---|-------------|---|------------------|--|------------|----------|---|
| 0.4<br>0.5<br>0.55<br>0.6<br>0.65<br>0.7<br>0.75<br>0.8<br>x In | I1          | OFF<br>1<br>2<br>3<br>4<br>6<br>8<br>10<br>12 | I2               | OFF<br>1.5<br>2<br>4<br>6<br>8<br>10<br>12 | I4         |          |   |
| A 3s<br>B 6s<br>C 12s<br>D 18s                                  | t1<br>I=6I1 | A 0.05s<br>B 0.1s<br>C 0.25s<br>D 0.5s        | t2 I=8In<br>I>I2 | A 0.1s<br>B 0.3s<br>C 0.4s<br>D 0.8s       | t4<br>I>I4 | S PR12/P |   |