



NSM3-100N 3P



NSM3-250N-3P

Moulded Case
Circuit Breaker

Application

NSM3 Series moulded case circuit breaker is one of latest type breakers which our company adopts international advanced design and manufacture technology to develop. The rated insulating voltage is 750V. Suitable for AC 50Hz (60Hz). Rated working voltage 690V or below, rated working current is 12.5A to 630A of circuit and used in distributing electric energy. Non-frequent making and breaking in the normal conditions and protecting when circuit and installation are overload, short circuit and lacking voltage. Rated shell-rack and the breaker whose current is under 400A, take protection effect when mouse cage motor's non-frequent start, breaking off working and protecting form overload, short circuit and lacking voltage. The product conforms to GB14048.2, IEC 60947-2 standards.

Main Technical Specifications

| Type | Rated current of trip (In A) | Pole number | Rated insulating voltage (V) | Rated operating distance (mm) | Arcing-over distance (mm) | Ultimate short circuit breaking capacity (kA) | Short circuit breaking capacity (kA) | Operation performance | | | | | | | | | |
|-----------|-------------------------------------|-------------|------------------------------|-------------------------------|---------------------------|---|--------------------------------------|-----------------------|------|----------|-----|------|------|-----|-----|------|------|
| | | | | | | | | ON | OFF | | | | | | | | |
| NSM3-100D | 12.5,5,16,20,25,32,40,50,63,80,100 | 3P 4P | 950 | ≤690 | 0 | 18 | 18 | 1500 | 8500 | | | | | | | | |
| NSM3-100N | | | | | | 25 | 25 | | | | | | | | | | |
| NSM3-100H | | | | | | 70 | 70 | | | | | | | | | | |
| NSM3-100L | | | | | | 150 | 150 | | | | | | | | | | |
| NSM3-160D | 16,20,25,32,40,50,63,80,100,125,160 | | | | | 3P 4P | 950 | ≤690 | 0 | 25 | 25 | 1000 | 7000 | | | | |
| NSM3-160N | | | | | | | | | | 35 | 35 | | | | | | |
| NSM3-160H | | | | | | | | | | 70 | 70 | | | | | | |
| NSM3-160L | | | | | | | | | | 150 | 150 | | | | | | |
| NSM3-250D | 160,180,200,225,250 | | | | | | | | | 3P 4P | 950 | ≤690 | 0 | 25 | 25 | 1000 | 4000 |
| NSM3-250N | | | | | | | | | | | | | | 36 | 36 | | |
| NSM3-250H | | | | | | | | | | | | | | 70 | 70 | | |
| NSM3-250L | | | | | | | | | | | | | | 150 | 150 | | |
| NSM3-400D | 200,225,250,300,315,400 | 3P 4P | 950 | ≤690 | 0 | | | | | | | | | 25 | 25 | 1000 | 4000 |
| NSM3-400N | | | | | | | | | | | | | | 36 | 36 | | |
| NSM3-400H | | | | | | | | | | | | | | 70 | 70 | | |
| NSM3-400L | | | | | | | | | | | | | | 150 | 150 | | |
| NSM3-630D | 315,350,400,500,600,630 | | | | | 3P 4P | 950 | ≤690 | 0 | | | | | 35 | 35 | 1000 | 4000 |
| NSM3-630N | | | | | | | | | | | | | | 45 | 45 | | |
| NSM3-630H | | | | | | | | | | | | | | 70 | 70 | | |
| NSM3-630L | | | | | | | | | | | | | | 150 | 150 | | |

Working Conditions

| Rated current of | Thermodynamic release(ambient temp+40℃) | | Operational current of magnetic release(A) |
|------------------|---|--------------------------------------|--|
| | 1.05In(cold state) inoperation | 1.30In(heat state) operative time(h) | |
| In≤63 | ≥1 | < 1 | 10In ± 20% |
| 63≤In≤100 | ≥2 | < 2 | 10In ± 20% |
| 100≤In≤630 | ≥2 | < 2 | 5-10In ± 20% |

Working Conditions

| Rated current of release(A) | Thermodynamic release(ambient temp+40℃) | | | | Operational current of magnetic release(A) |
|-----------------------------|---|--------------------------------------|--------------------------------------|---------------------------------------|--|
| | 1.0In(cold state) operative time(h) | 1.20In(heat state) operative time(h) | 1.50In(heat state) operative time(h) | 1.01In (heat state) operative time(h) | |
| 12.5≤In≤400 | ≥2 | < 2 | ≤4min | 2S<Tp≤10S | 12In ± 20% |



NSM3-250

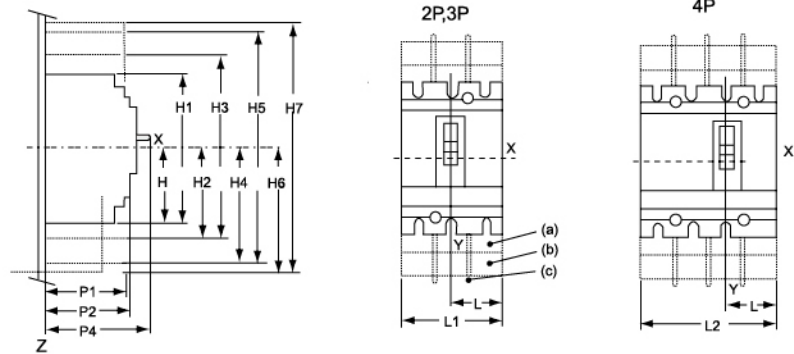


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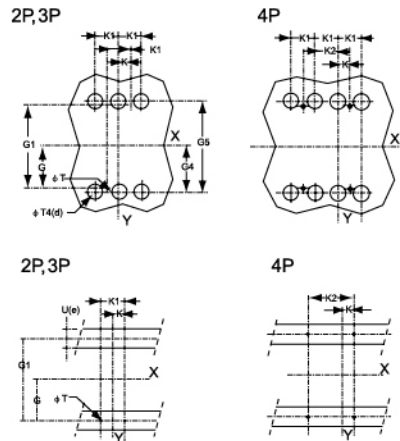
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Outline and Installation Dimensions



Installation mounting on the back panel

Installation on the guide track



Outline and Mounting Size

| MM | C | C1 | C2 | C3 | C6 | C7 | C20 | C21 | G | G1 | G4 |
|-------------------------|------|-------|------|-------|------|-------|------|-------|------|------|-------|
| NSM3-100/160/250D/N/H/L | 29 | 76 | 54 | 108 | 43 | 104 | 34 | 86 | 62.5 | 125 | 70 |
| NSM3-400/630D/N/H/L | 41.5 | 116 | 92.5 | 184 | 53 | 146 | 46.5 | 126 | 100 | 200 | 113.5 |
| MM | G5 | H | H1 | H2 | H3 | H4 | H5 | H6 | H7 | K | K4 |
| NSM3-100/160/250D/N/H/L | 104 | 80.5 | 161 | 94 | 188 | 160.5 | 321 | 178.5 | 357 | 17.5 | 35 |
| NSM3-400/630D/N/H/L | 227 | 127.5 | 255 | 142.5 | 285 | 240 | 480 | 237 | 474 | 22.5 | 45 |
| MM | K2 | L | L1 | L2 | P1 | P2 | P4 | P5 | P6 | R | R1 |
| NSM3-100/160/250D/N/H/L | 70 | 52.5 | 105 | 140 | 81 | 86 | 111 | 83 | 88 | 14.5 | 29 |
| NSM3-400/630D/N/H/L | 90 | 70 | 140 | 185 | 95.5 | 110 | 168 | 107 | 112 | 31.5 | 63 |
| MM | R2 | R4 | R5 | R6 | R7 | R12 | R13 | ∅T | ∅T4 | (Ue) | |
| NSM3-100/160/250D/N/H/L | 54 | 108 | 143 | 29 | 58 | 43 | 86 | 6 | 22 | ≤32 | |
| NSM3-400/630D/N/H/L | 71.5 | 143 | 188 | 46.5 | 93 | 63 | 126 | 6 | 32 | ≤32 | |