




HDM6s Molded Case Circuit Breaker

Standard: IEC/EN 60947-2



Order Information

| Type | Pole | In A | Fixed Thermal Magnetic | | | | Thermo-adjustable | |
|--|------|-------------------|------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | | L-type | S-Type | M-type | T-Type | M-type | T-Type |
|  HDM6s-63 | 3 | 10 | HDM6s063L0103XXXF | HDM6s063S0103XXXF | HDM6s063M0103XXXF | HDM6s063T0103XXXF | - | - |
| | | 16 | HDM6s063L0163XXXF | HDM6s063S0163XXXF | HDM6s063M0163XXXF | HDM6s063T0163XXXF | - | - |
| | | 20 | HDM6s063L0203XXXF | HDM6s063S0203XXXF | HDM6s063M0203XXXF | HDM6s063T0203XXXF | - | - |
| | | 25 | HDM6s063L0253XXXF | HDM6s063S0253XXXF | HDM6s063M0253XXXF | HDM6s063T0253XXXF | - | - |
| | | 32 | HDM6s063L0323XXXF | HDM6s063S0323XXXF | HDM6s063M0323XXXF | HDM6s063T0323XXXF | - | - |
| | | 40 | HDM6s063L0403XXXF | HDM6s063S0403XXXF | HDM6s063M0403XXXF | HDM6s063T0403XXXF | - | - |
| | | 50 | HDM6s063L0503XXXF | HDM6s063S0503XXXF | HDM6s063M0503XXXF | HDM6s063T0503XXXF | - | - |
| | 63 | HDM6s063L0633XXXF | HDM6s063S0633XXXF | HDM6s063M0633XXXF | HDM6s063T0633XXXF | - | - | |
| | 4 | 10 | - | - | HDM6s063M0104XXXF | HDM6s063T0104XXXF | - | - |
| | | 16 | - | - | HDM6s063M0164XXXF | HDM6s063T0164XXXF | - | - |
| | | 20 | - | - | HDM6s063M0204XXXF | HDM6s063T0204XXXF | - | - |
| | | 25 | - | - | HDM6s063M0254XXXF | HDM6s063T0254XXXF | - | - |
| | | 32 | - | - | HDM6s063M0324XXXF | HDM6s063T0324XXXF | - | - |
| | | 40 | - | - | HDM6s063M0404XXXF | HDM6s063T0404XXXF | - | - |
| 50 | | - | - | HDM6s063M0504XXXF | HDM6s063T0504XXXF | - | - | |
| 63 | - | - | HDM6s063M0634XXXF | HDM6s063T0634XXXF | - | - | | |
|  HDM6s-100 | 3 | 16 | HDM6s100L0163XXXF | HDM6s100S0163XXXF | - | - | HDM6s100M0163XXX3 | HDM6s100T0163XXX3 |
| | | 20 | HDM6s100L0203XXXF | HDM6s100S0203XXXF | - | - | - | - |
| | | 25 | HDM6s100L0253XXXF | HDM6s100S0253XXXF | - | - | HDM6s100M0253XXX3 | HDM6s100T0253XXX3 |
| | | 32 | HDM6s100L0323XXXF | HDM6s100S0323XXXF | - | - | - | - |
| | | 40 | HDM6s100L0403XXXF | HDM6s100S0403XXXF | - | - | HDM6s100M0403XXX3 | HDM6s100T0403XXX3 |
| | | 50 | HDM6s100L0503XXXF | HDM6s100S0503XXXF | - | - | - | - |
| | | 63 | HDM6s100L0633XXXF | HDM6s100S0633XXXF | - | - | HDM6s100M0633XXX3 | HDM6s100T0633XXX3 |
| | | 80 | HDM6s100L0803XXXF | HDM6s100S0803XXXF | - | - | - | - |
| | 100 | HDM6s100L1003XXXF | HDM6s100S1003XXXF | - | - | HDM6s100M1003XXX3 | HDM6s100T1003XXX3 | |
| | 4 | 16 | - | - | - | - | HDM6s100M0164XXX3 | HDM6s100T0164XXX3 |
| | | 25 | - | - | - | - | HDM6s100M0254XXX3 | HDM6s100T0254XXX3 |
| | | 40 | - | - | - | - | HDM6s100M0404XXX3 | HDM6s100T0404XXX3 |
| | | 63 | - | - | - | - | HDM6s100M0634XXX3 | HDM6s100T0634XXX3 |
| | | 100 | - | - | - | - | HDM6s100M1004XXX3 | HDM6s100T1004XXX3 |
| - | | - | - | - | - | - | - | |
|  HDM6s-250 | 3 | 100 | HDM6s250L1003XXXF | HDM6s250S1003XXXF | - | - | - | - |
| | | 125 | HDM6s250L1253XXXF | HDM6s250S1253XXXF | - | - | HDM6s250M1253XXX3 | HDM6s250T1253XXX3 |
| | | 160 | HDM6s250L1603XXXF | HDM6s250S1603XXXF | - | - | HDM6s250M1603XXX3 | HDM6s250T1603XXX3 |
| | | 180 | HDM6s250L1803XXXF | HDM6s250S1803XXXF | - | - | - | - |
| | | 200 | HDM6s250L2003XXXF | HDM6s250S2003XXXF | - | - | HDM6s250M2003XXX3 | HDM6s250T2003XXX3 |
| | | 225 | HDM6s250L2253XXXF | HDM6s250S2253XXXF | - | - | - | - |
| | | 250 | HDM6s250L2503XXXF | HDM6s250S2503XXXF | - | - | HDM6s250M2503XXX3 | HDM6s250T2503XXX3 |
| | 4 | 125 | - | - | - | - | HDM6s250M1254XXX3 | HDM6s250T1254XXX3 |
| | | 160 | - | - | - | - | HDM6s250M1604XXX3 | HDM6s250T1604XXX3 |
| | | 200 | - | - | - | - | HDM6s250M2004XXX3 | HDM6s250T2004XXX3 |
| | | 250 | - | - | - | - | HDM6s250M2504XXX3 | HDM6s250T2504XXX3 |
| | | - | - | - | - | - | - | - |
| | | - | - | - | - | - | - | - |
| | | - | - | - | - | - | - | - |



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Technical Data

Fixed Thermal Magnetic

Basic Information (IEC/EN60947-2)

| Frame Size | AF | 63 | | | | | | 100 | | | | 250 | | | | |
|--|----|-------------------------|------|-----|------|-----|------|-----------------------------|------|-----|------|-------------|-----------------------------|-----|------|--|
| | | 3P | | | 4P | | | 3P | | 4P | | 3P | | 4P | | |
| Number of Poles | | L | S | M | T | M | T | L | S | L | S | L | S | L | S | |
| Breaking Capacity Level | | | | | | | | | | | | | | | | |
| Rated Ultimate Shot-circuit Breaking Capacity Icu (kA rms) | | 25 | 18 | 50 | 30 | 50 | 30 | 35 | 26 | 35 | 26 | 35 | 26 | 35 | 26 | |
| Rated Service Shot-circuit Breaking Capacity Ics (kA rms) | | 75% | 100% | 50% | 100% | 50% | 100% | 75% | 100% | 75% | 100% | 75% | 100% | 75% | 100% | |
| Mechanical Durability On-off Cycle | | 8500 | | | | | | 8500 | | | | 7000 | | | | |
| Electrical Durability On-off Cycle | | 1500 | | | | | | 1500 | | | | 1000 | | | | |
| Tripping Unit | | | | | | | | | | | | | | | | |
| Rated Current (A) In | | 10/16/20/25/32/40/50/63 | | | | | | 16/20/25/32/40/50/63/80/100 | | | | - | 100/125/160/180/200/225/250 | | | |
| Accessory | | | | | | | | | | | | | | | | |
| Indication Accessories | | | | | | | | | | | | | | | | |
| OF | | | | | | | | | | | | | | | | |
| SD | | | | | | | | | | | | | | | | |
| Control Accessories | | | | | | | | | | | | | | | | |
| MX (AC400, 230V, DC220V) | | | | | | | | | | | | | | | | |
| MN (AC400, 230V) | | | | | | | | | | | | | | | | |
| Extended Rotary Handle (Round and Square) | | | | | | | | | | | | | | | | |
| AC Motor Mechanism (AC400, 230V) | | | | | | | | | | | | | | | | |
| Mechanical Interlock | | | | | | | | | | | | | | | | |
| Mounting & Connection | | | | | | | | | | | | | | | | |
| Fixed, Front Connection | | | | | | | | | | | | | | | | |
| Fixed, Rear Connection | | | | | | | | | | | | | | | | |
| Plug-in, Rear Connection | | | | | | | | | | | | | | | | |
| Plug-in, Front Connection | | | | | | | | | | | | | | | | |
| Drawer-out, Rear Connection | | | | | | | | | | | | | | | | |
| Connection | | | | | | | | | | | | | | | | |
| Spreader | | | | | | | | | | | | | | | | |
| Protection | | | | | | | | | | | | | | | | |
| Phase Barrier | | | | | | | | | | | | | | | | |
| Installation Information | | See Page 75 | | | | | | See Page 76 | | | | See Page 77 | | | | |

'  ' with this option
 ' - ' without this option

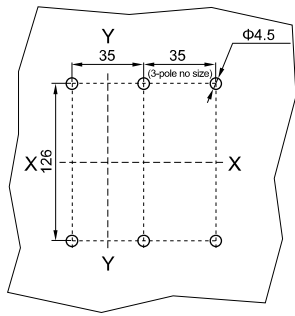
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HDM6s250 Installation Dimension

Chart of Fixed Front Connection Installation Hole



Remark: X-X, Y-Y is the center of 3-pole circuit breaker

Installation Dimension of Fixed Front Connection

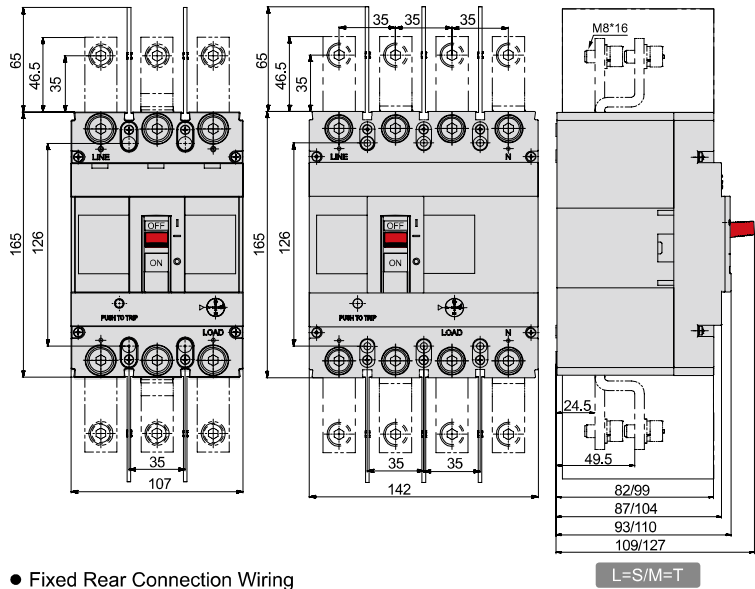
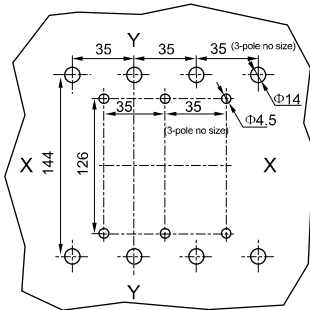


Chart of Fixed Rear Connection Installation Hole



Remark: X-X, Y-Y is the center of 3-pole circuit breaker

Fixed Rear Connection Wiring

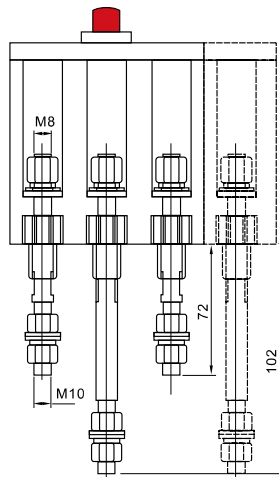


Chart of Terminal Connection Installation Hole

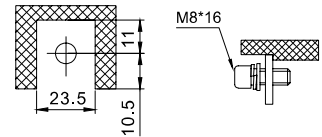
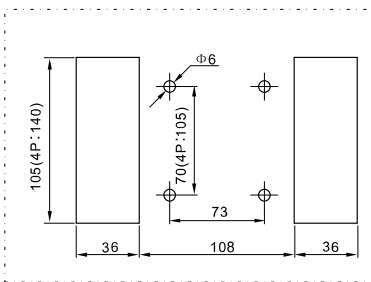
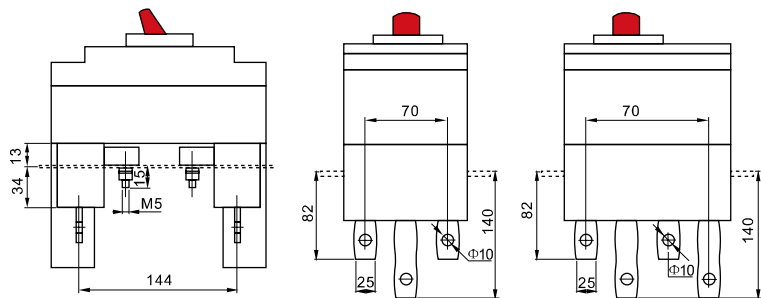


Chart of Plug-in Rear Connection Installation Hole



Plug-in Rear Connection Wiring



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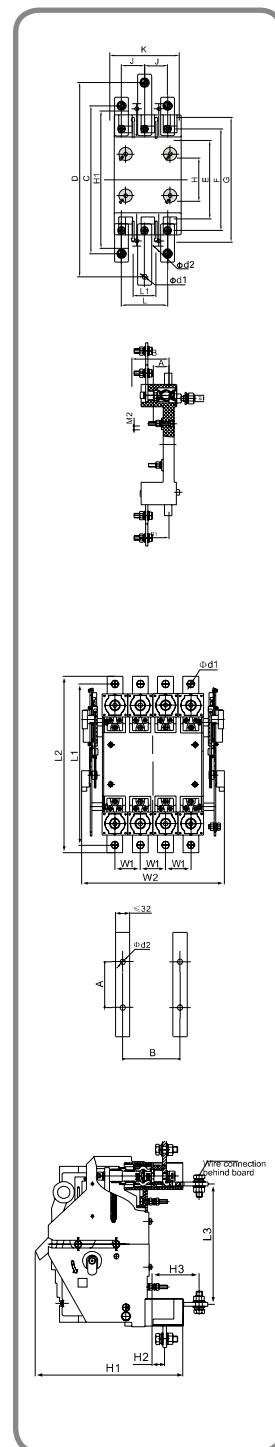
Plug-in Front Connection Installation Dimension (HDM6s100 and HDM6s250)

| Equipped with Circuit Breaker | Pole No. | Appearance and Installation Dimension (mm) | | | | | | | | |
|-------------------------------|----------|--|----|----|-----|-----|-----|-----|-----|----|
| | | A | B | B1 | C | D | E | F | G | H |
| HDM6s100 | 3P | 20 | 48 | 39 | 195 | 252 | 102 | 132 | 162 | 56 |
| | 4P | 20 | 48 | 39 | 195 | 252 | 102 | 132 | 162 | 56 |
| HDM6s250 | 3P | 23 | 53 | 42 | 204 | 304 | 108 | 144 | 180 | 54 |
| | 4P | 23 | 53 | 42 | 204 | 304 | 108 | 144 | 180 | 54 |

| Equipped with Circuit Breaker | Pole No. | Appearance and Installation Dimension (mm) | | | | | | | | |
|-------------------------------|----------|--|----|-----|-----|----|----|----|------|----|
| | | H1 | J | K | L | L1 | M1 | M2 | Φd1 | d2 |
| HDM6s100 | 3P | 178 | 30 | 90 | 60 | 30 | M8 | M5 | Φ6.5 | M5 |
| | 4P | 178 | 30 | 120 | 90 | 60 | M8 | M5 | Φ6.5 | M5 |
| HDM6s250 | 3P | 196 | 35 | 107 | 70 | 35 | M8 | M5 | Φ8.5 | M5 |
| | 4P | 196 | 35 | 142 | 105 | 70 | M8 | M5 | Φ8.5 | M5 |

Plug-in Front Connection Installation Dimension (HDM6s100 and HDM6s250)

| Equipped with Circuit Breaker | Pole No. | Appearance Dimension (mm) | | | | | | | | Installation Dimension | | | |
|-------------------------------|----------|---------------------------|-----|-----|-----|------|----|----|-----|------------------------|-----|-----|------|
| | | L1 | L2 | L3 | H1 | H2 | H3 | W1 | W2 | Φd1 | A | B | Φd2 |
| HDM6s400 | 3P | 311 | 340 | 205 | 253 | 17.5 | 77 | 44 | 211 | Φ11 | 88 | 141 | Φ6.5 |
| | 4P | 311 | 340 | 205 | 253 | 17.5 | 77 | 44 | 255 | Φ11 | 132 | 141 | Φ6.5 |
| HDM6s630 | 3P | 341 | 381 | 211 | 282 | 17.5 | 92 | 58 | 253 | Φ13 | 116 | 140 | Φ6.5 |
| | 4P | 341 | 381 | 211 | 282 | 17.5 | 92 | 58 | 311 | Φ13 | 174 | 140 | Φ6.5 |
| HDM6s800 | 3P | 367 | 410 | 241 | 238 | 26 | 73 | 70 | 289 | Φ13 | 140 | 131 | Φ6.5 |
| | 4P | 367 | 410 | 241 | 238 | 26 | 73 | 70 | 359 | Φ13 | 210 | 131 | Φ6.5 |



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HDM6s 63A-800A Fixed and Plug-in Circuit Breaker Connection Hole-opening Dimension

| Type of Circuit Breaker | Pole No. | Exposure of Front Cover and Pull-out Handle | | | Exposure of Pull-out Handle Only | | |
|-------------------------|----------|---|-----|------|----------------------------------|-----|-----|
| | | W1 | L1 | L11 | W2 | L2 | L21 |
| HDM6s63 | 3P | 76 | 77 | 38.5 | 29 | 53 | 27 |
| | 4P | 101 | 77 | 38.5 | 29 | 53 | 27 |
| HDM6s100 | 3P | 92 | 88 | 42 | 35 | 60 | 30 |
| | 4P | 122 | 88 | 42 | 35 | 60 | 30 |
| HDM6s250 | 3P | 107 | 102 | 51 | 35 | 60 | 30 |
| | 4P | 142 | 102 | 51 | 35 | 60 | 30 |
| HDM6s400 | 3P | 140 | 180 | 90 | 61 | 102 | 53 |
| | 4P | 184 | 180 | 90 | 61 | 102 | 53 |
| HDM6s630 | 3P | 182 | 180 | 90 | 65 | 102 | 53 |
| | 4P | 240 | 180 | 90 | 65 | 102 | 53 |
| HDM6s800 | 3P | 210 | 200 | 100 | 65 | 102 | 51 |
| | 4P | 280 | 200 | 100 | 65 | 102 | 51 |

Safety Distance

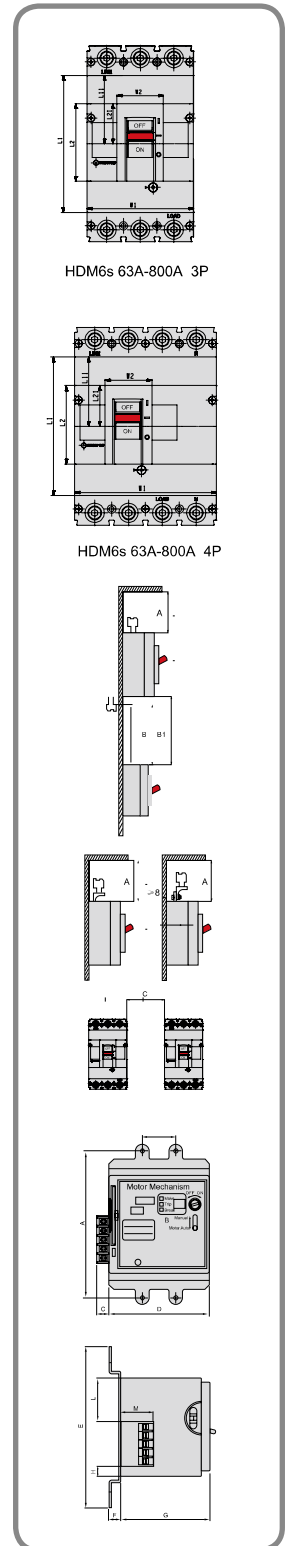
| Type of Circuit Breaker | A (mm) | B (mm) | B1 (mm) | C (mm) |
|-------------------------|--------|--------|-------------------|--------|
| HDM6s63 | 60 | 60 | | 30 |
| HDM6s100 | 60 | 60 | | 30 |
| HDM6s250 | 60 | 60 | Length of Exposed | 30 |
| HDM6s400 | 110 | 110 | Conductor + B | 70 |
| HDM6s630 | 110 | 110 | | 70 |
| HDM6s800 | 110 | 110 | | 70 |

Remark: The distance between the products must meet the requirements of C distance even if products have accessories

Installation Dimension

AC Motor Mechanism

| Type of Circuit Breaker | A | B | C | D | E | F | G | H | L | M |
|-------------------------|-----|----|----|-----|-----|----|-----|-----|------|------|
| HDM6s63 | 117 | 25 | 11 | 76 | 128 | 2 | 80 | 8.5 | 38.5 | 28.5 |
| HDM6s100 | 129 | 30 | 11 | 90 | 144 | 14 | 80 | 8.5 | 38.5 | 28.5 |
| HDM6s250 | 126 | 35 | 11 | 104 | 138 | 13 | 80 | 8.5 | 38.5 | 28.5 |
| HDM6s400 | 215 | 44 | 11 | 140 | 232 | 22 | 112 | 12 | 97.5 | 28.5 |
| HDM6s630 | 200 | 58 | 11 | 140 | 216 | 17 | 112 | 12 | 97.5 | 28.5 |
| HDM6s800 | 243 | 70 | 11 | 150 | 260 | 16 | 112 | 12 | 97.5 | 28.5 |



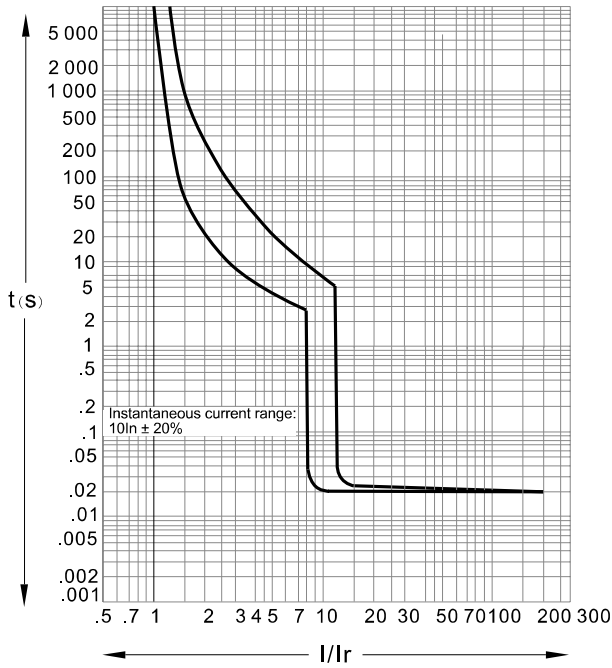
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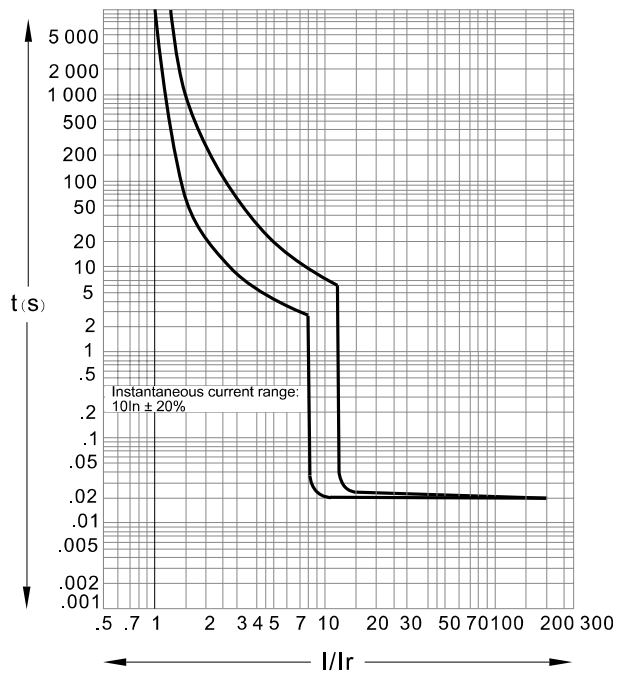


Tripping Release Curve

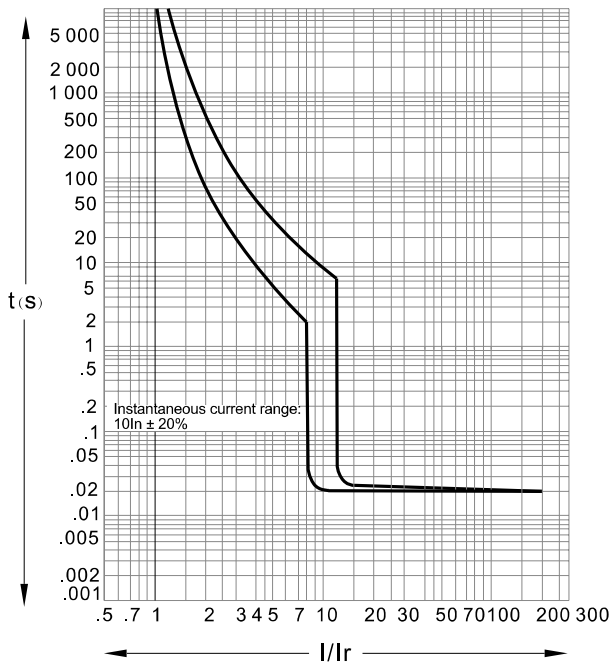
● HDM6s63 10A-63A, the black line is used for the distribution.



● HDM6s100 16A-50A, the black line is used for the distribution.



● HDM6s100 63A-100A, the black line is used for the distribution.



● HDM6s250 100A-250A, the black line is used for the distribution.

