



HMT160JR

Moulded Case Circuit Breaker h3+ P250 LSI 3P3D 160A 50kA FTC

Technical properties

Architecture

| | |
|---------------------------|-----------------|
| Type of order | Toggle |
| Neutral position | without neutral |
| Number of protected poles | 3 |
| Number of poles | 3 P |
| Type of pole | 3P3D |
| Type of case | Fixed built-in |

Functions

| | |
|--|-----|
| Complete device with protection unit | Yes |
| Reversing switch | No |
| Version as main switch | Yes |
| Version as emergency stop installation | No |
| Version as safety switch | No |
| Version as maintenance-/service switch | Yes |
| Trip Unit | LSI |
| Integrated earth fault protection | No |

Controls and indicators

| | |
|------------------------|----|
| Motor drive integrated | No |
|------------------------|----|

Main electrical features

| | |
|------------------------------|-------------|
| Rated operational voltage Ue | 220 / 690 V |
| Type of supply voltage | AC |
| Frequency | 50/60 Hz |

Voltage

| | |
|---------------------------------|-------|
| Rated insulation voltage | 800 V |
| Rated impulse withstand voltage | 8 kV |
| With under voltage release | No |

Electric current

| | |
|---|--------|
| Rated current | 160 A |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 6 kA |
| Rated short-time withstand current Icw t=0.4S 220-240 V AC according IEC 60947-2 | 2.5 kA |
| Rated short-time withstand current Icw t=0.4S 380-415 V AC according IEC 60947-2 | 2.5 kA |
| Rated short-time withstand current Icw t=0.4S 660-690 V AC according IEC 60947-2 | 2.5 kA |

| | |
|--|-------------|
| Rating current 10°C according to IEC 60947 | 160 A |
| Rating current 15°C according to IEC 60947 | 160 A |
| Rating current 20°C according to IEC 60947 | 160 A |
| Rating current 25°C according to IEC 60947 | 160 A |
| Rating current 30°C according to IEC 60947 | 160 A |
| Rating current 35°C according to IEC 60947 | 160 A |
| Rating current 40°C according to IEC 60947 | 160 A |
| Rating current 45°C according to IEC 60947 | 160 A |
| Rating current 50°C according to IEC 60947 | 160 A |
| Rating current 55°C according to IEC 60947 | 160 A |
| Rating current 60°C according to IEC 60947 | 160 A |
| Rating current 65°C according to IEC 60947 | 145 A |
| Rating current 70°C according to IEC 60947 | 135 A |
| Rated service breaking capacity Ics under 660V AC according IEC 60947-2 | 6 kA |
| Breaking capacity on 1 pole for IT 230V NF 60947-2 | 2.5 kA |
| Breaking capacity on 1 pole for IT 400V NF 60947-2 | 2.5 kA |
| Breaking capacity on 1 pole for IT 415V NF 60947-2 | 2.5 kA |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 65 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 65 kA |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 50 kA |
| Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2 | 65 kA |
| Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 | 65 kA |
| Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity Icu under 660V AC IEC 60947-2 | 6 kA |
| Dimensions | |
| Depth of installed product | 97 mm |
| Height of installed product | 165 mm |
| Width of installed product | 105 mm |
| Frequency | |
| Frequency | 50 to 60 Hz |
| Power | |
| Total power loss under IN | 18.42 W |
| Power loss per pole at In | 6.14 W |
| Endurance | |
| Electric endurance in number of cycles | 10000 |
| Number of mechanical operations | 40000 |

Subject to technical modifications

Cover, door

| | |
|---------------|-----|
| Interlockable | Yes |
|---------------|-----|

Installation, mounting

| | |
|---|------|
| Tightening torque | 12Nm |
| DIN rail mounting with optional adaptor | No |
| Suitable for front mounting center | No |
| Suitable for front mounting | No |
| Suitable for ground mounting | Yes |

Connection

| | |
|---|-------------------------|
| Connection cross-sect. flexible conductor | 35 / 150mm ² |
| Connection cross-sect. rigid cable | 35 / 185mm ² |
| Connection | Front connection |
| Type of connection | Terminal |

Protection

| | |
|-------------------------------------|------------|
| Instantaneous protection (li): type | adjustable |
|-------------------------------------|------------|

Cable

| | |
|----------------|---------|
| Cable Material | Cu / Al |
|----------------|---------|

Equipment

| | |
|---|-----|
| Number of auxiliary contacts as normally closed contact | 0 |
| Number of auxiliary contacts as normally open contact | 0 |
| Number of auxiliary contacts as change-over contact | 0 |
| Motor drive optional | Yes |
| Can be accessorized | Yes |

Use cases

| | |
|-----------------|---|
| Category of use | A |
|-----------------|---|

Use

| | |
|---------------------------------|------------------------|
| Vibrations and shocks withstand | IEC 68068-2-52 Test FC |
|---------------------------------|------------------------|

Standards

| | |
|---------------|-------------|
| Standard text | IEC 60947-2 |
|---------------|-------------|

Safety

| | |
|---------------|-----|
| REACH conform | No |
| RoHS conform | Yes |
| Halogen free | No |

Use conditions

| | |
|--|------------------------------------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3 |
| Altitude | 2000 m |
| Air humidity protection | 95%HR 55°C sev Kn (IEC 68-2-30/52) |

