



HES064DC

Moulded Case Circuit Breaker h3+ P160 TM ADJ 4P4D N0-100% 63A 70kA CTC

Technical properties

Architecture

| | |
|---------------------------|----------------|
| Neutral position | left |
| Number of protected poles | 4 |
| Number of poles | 4 P |
| 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 | TM A/A |
| Integrated earth fault protection | No |
| Concurrently switching N-neutral | Yes |

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 | 63 A |
| Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 6 kA |
| Thermal protection nob setting xIN | 0.63 / 0.8 / 1 |
| Rating current 10°C according to IEC 60947 | 87.1 A |
| Rating current 15°C according to IEC 60947 | 84.5 A |
| Rating current 20°C according to IEC 60947 | 81.7 A |
| Rating current 25°C according to IEC 60947 | 78.9 A |
| Rating current 30°C according to IEC 60947 | 76 A |

| | |
|--|----------------|
| Rating current 35°C according to IEC 60947 | 73 A |
| Rating current 40°C according to IEC 60947 | 69.8 A |
| Rating current 45°C according to IEC 60947 | 66.5 A |
| Rating current 50°C according to IEC 60947 | 63 A |
| Rating current 55°C according to IEC 60947 | 59.3 A |
| Rating current 60°C according to IEC 60947 | 55.4 A |
| Rating current 65°C according to IEC 60947 | 51.1 A |
| Rating current 70°C according to IEC 60947 | 46.5 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 | 6 kA |
| Breaking capacity on 1 pole for IT 400V NF 60947-2 | 6 kA |
| Breaking capacity on 1 pole for IT 415V NF 60947-2 | 6 kA |
| Breaking capacity on 1 pole for IT 690V NF 60947-2 | 2.5 kA |
| Rated ultimate short-circuit breaking capacity Icu under 230V AC IEC 60947-2 | 85 kA |
| Rated ultimate short-circuit breaking capacity Icu under 240V AC IEC 60947-2 | 85 kA |
| Rated ultimate short-circuit breaking capacity Icu under 400V AC IEC 60947-2 | 70 kA |
| Rated ultimate short-circuit breaking capacity Icu under 415V AC IEC 60947-2 | 70 kA |
| Range of the thermal adjustment | 40 / 50 / 63 A |
| Rated service breaking capacity Ics under 110-138V AC according IEC 60947-2 | 85 kA |
| Rated ultimate short-circuit breaking capacity Icu under 220V AC IEC 60947-2 | 85 kA |
| Rated ultimate short-circuit breaking capacity Icu under 380V AC IEC 60947-2 | 70 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 | 130 mm |
| Width of installed product | 120 mm |
| Frequency | |
| Frequency | 50 to 60 Hz |
| Power | |
| Power loss per pole at 0.63*In | 1.43 W |
| Power loss per pole at 0.8*In | 2.24 W |
| Total power loss at 0.63*In | 4.3 W |
| Total power loss at 0.8*In | 6.72 W |
| Total power loss under IN | 10.5 W |
| Power loss per pole at In | 3.5 W |
| Tripping | |
| Short-time delayed tripping | No |

Subject to technical modifications

Endurance

| | |
|--|-------|
| Electric endurance in number of cycles | 10000 |
| Number of mechanical operations | 40000 |

Cover, door

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

Installation, mounting

| | |
|---|-----|
| Tightening torque | 6Nm |
| DIN rail mounting with optional adaptor | Yes |
| Suitable for front mounting center | No |
| Suitable for front mounting | No |
| Suitable for ground mounting | Yes |

Connection

| | |
|------------------------------------|-----------------------|
| Connection cross-sect. rigid cable | 6 / 95mm ² |
|------------------------------------|-----------------------|

Protection

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

Cable

| | |
|----------------|----|
| Cable Material | Cu |
|----------------|----|

Settings

| | |
|-------------------------------------|-------------------------|
| Range of the magnetic adjustment | 378 / 504 / 630 / 756 A |
| Magnetic protection nob setting xIN | 6 / 8 / 10 / 12 |

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 | No |
| 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 |
| European directive WEEE | concerned |

Use conditions

| | |
|--|--------|
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3 |
| Altitude | 2000 m |

