



HES041DC

Moulded Case Circuit Breaker h3+ P160 TM ADJ 4P4D N0-100% 40A 70kA CTC

Technical properties

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|--|---|-----|------|--|
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| | | | | |

| Type of order | Toggle |
|--|--|
| Neutral position | left |
| Number of protected poles | 4 |
| Number of poles | 4 P |
| Type of pole | 4P4D N:0/100% |
| 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 | |
| nateu iiisulatioii voitage | 800 V |
| Rated impulse withstand voltage | 800 V 8 kV |
| | |
| Rated impulse withstand voltage | 8 kV |
| Rated impulse withstand voltage With under voltage release | 8 kV |
| Rated impulse withstand voltage With under voltage release Electric current | 8 kV No |
| Rated impulse withstand voltage With under voltage release Electric current Rated current Rated ultimate short-circuit breaking | 8 kV No 40 A |
| Rated impulse withstand voltage With under voltage release Electric current Rated current Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 | 8 kV No 40 A 6 kA |
| Rated impulse withstand voltage With under voltage release Electric current Rated current Rated ultimate short-circuit breaking capacity Icu under 690V AC IEC 60947-2 Thermal protection nob setting xIN | 8 kV No 40 A 6 kA 0.63 / 0.8 / 1 |

| Rating current 25°C according to IEC 60947 | 46.5 A |
|--|----------------|
| Rating current 30°C according to IEC 60947 | 45.2 A |
| Rating current 35°C according to IEC 60947 | 44 A |
| Rating current 40°C according to IEC 60947 | 42.7 A |
| Rating current 45°C according to IEC 60947 | 41.4 A |
| Rating current 50°C according to IEC 60947 | 40 A |
| Rating current 55°C according to IEC 60947 | 38.6 A |
| Rating current 60°C according to IEC 60947 | 37.1 A |
| Rating current 65°C according to IEC 60947 | 35.6 A |
| Rating current 70°C according to IEC 60947 | 34 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 | 25 / 32 / 40 A |
| Rated service breaking capacity lcs 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 | 3.46 W |
| Power loss per pole at 0.8*In | 5.68 W |
| Total power loss at 0.63*In | 10.39 W |
| Total power loss at 0.8*In | 17.03 W |
| Total power loss under IN | 27.9 W |
| Power loss per pole at In | 9.3 W |
| | |

| Tripping | |
|---|-------------------------|
| Short-time delayed tripping | No |
| Endurance | |
| Electric endurance in number of cycles | 10000 |
| Number of mechanical operations | 4000 |
| Cover, door | |
| Interlockable | Yes |
| Installation, mounting | |
| Tightening torque | 6Nn |
| DIN rail mounting with optional adaptator | Yes |
| Suitable for front mounting center | No |
| Suitable for front mounting | No |
| Suitable for ground mounting | Yes |
| Connection | |
| Connection cross-sect. flexible conductor | 6 / 70mm |
| Connection cross-sect. rigid cable | 6 / 95mm |
| Connection | Front connection |
| Type of connection | with screv |
| Protection | |
| Instantaneous protection (Ii): type | fixed |
| Cable | |
| Cable Material | Cu |
| Settings | |
| Range of the magnetic adjustment | 240 / 320 / 400 / 480 / |
| Magnetic protection nob setting xIN | 6 / 8 / 10 / 12 |
| Equipment | |
| Number of auxiliary contacts as normally closed contact | (|
| Number of auxiliary contacts as normally open contact | (|
| Number of auxiliary contacts as change- over contact | (|
| Motor drive optional | No |
| Can be accessorized | Yes |
| Use cases | |
| Category of use | , |
| Use | |
| Vibrations and shocks withstand | IEC 68068-2-52 Test F0 |
| Standards | |
| Standard text | IEC 60947-2 |

| temperatur | |
|--|------------------------------------|
| Air humidity protection | 95%HR 55°C sev Kn (IEC 68-2-30/52) |
| Altitude | 2000 m |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 3 |
| Use conditions | |
| Halogen free | No |
| RoHS conform | Yes |
| REACH conform | Yes |
| Safety | |

Temperature of calibration

50 °C