



HES081DC

Moulded Case Circuit Breaker h3+ P160 TM ADJ 4P4D N0-100% 80A 70kA CTC

Technical Features

Electric current

| | |
|---|----------|
| Rated current | 80 A |
| Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2 | 70 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2 | 85 kA |
| Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2 | 85 kA |
| Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2 | 50 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 660 V AC IEC 60947-2 | 6 kA |
| Rated ultimate short-circuit breaking capacity I _{cu} under 690 V AC IEC 60947-2 | 6 kA |
| Rated current 10°C according to IEC 60947 | 102.30 A |
| Rated current 15°C according to IEC 60947 | 99.80 A |
| Rated current 20°C according to IEC 60947 | 97.20 A |
| Rated current 25°C according to IEC 60947 | 94.60 A |
| Rated current 30°C according to IEC 60947 | 91.80 A |
| Rated current at 35°C according to IEC 60947 | 89 A |
| Rated current at 40°C according to IEC 60947 | 86.10 A |
| Rated current 45°C according to IEC 60947 | 83.10 A |
| Rated current 50°C according to IEC 60947 | 80 A |
| Rated current 55°C according to IEC 60947 | 76.80 A |
| Rated current at 60°C according to IEC 60947 | 73.40 A |
| Rated current 65°C according to IEC 60947 | 69.80 A |
| Rated current 70°C according to IEC 60947 | 66.10 A |

Architecture

| | |
|---------------------------|----------------|
| Number of poles | 4 |
| Control/operation element | Toggle |
| Device construction type | Fixed built-in |
| Neutral position | Left |

Frequency

| | |
|-----------|------------|
| Frequency | 50 - 60 Hz |
|-----------|------------|

Voltage

| | |
|--|-------------|
| Rated impulse withstand voltage U _{imp} | 8000 V |
| Rated insulation voltage U _i | 800 V |
| Rated operational voltage U _e | 220 - 690 V |

Functions

| | |
|-----------|--------|
| Trip unit | TM A/A |
|-----------|--------|

Power

| | |
|---------------------------------------|---------|
| Total power loss under I _N | 17.70 W |
|---------------------------------------|---------|

Endurance

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

Safety

| | |
|-------------------------------|------|
| Ingress Protection (IP) class | IP4X |
|-------------------------------|------|

Connection

| | |
|----------------------------------|------------------------|
| Cross-section flexible conductor | 6 - 70 mm ² |
| Cross-section rigid conductor | 6 - 95 mm ² |

Connectivity

| | |
|--------------------|----------------|
| Type of connection | Screw terminal |
|--------------------|----------------|

Cover, door

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

Settings

| | |
|-------------------------------------|------------------|
| Thermal protection knob setting xIN | 0.63 0.8 1 |
|-------------------------------------|------------------|

Cable

| | |
|----------------|--------|
| Cable material | Copper |
|----------------|--------|

Compatibility

| | |
|---------------------------------|-----|
| Compatible with RDC AOB | No |
| Suitable for DIN Rail | No |
| Suitable for distribution board | Yes |

Dimensions

| | |
|------------|--------------|
| Dimensions | 130 x 120 mm |
| Height | 130 mm |
| Width | 120 mm |
| Depth | 97 mm |

Installation, mounting

| | |
|---|----------|
| Mounting-/Connection Position | Front |
| Nominal tightening torque | 6 - 6 Nm |
| Nominal tightening torque down terminal | 6 - 6 Nm |
| Nominal tightening torque top terminal | 6 - 6 Nm |

Electrical protection

| | |
|---|--------------------|
| Instantaneous protection (li): dial setting coefficient | 6 8 10 12 |
|---|--------------------|

Sustainability

| | |
|-----------------|-----|
| REACH-SVHC free | Yes |
| RoHS conform | Yes |
