



HET250DR

**Moulded Case Circuit Breaker h3+ P250 TM ADJ 3P3D 250A 70kA FTC**

**Technical characteristics**

**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	TM A/A
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	250 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	310.2 A
Rating current 15°C according to IEC 60947	303.3 A
Rating current 20°C according to IEC 60947	296.3 A
Rating current 25°C according to IEC 60947	289.1 A

Rating current 30°C according to IEC 60947	281.7 A
Rating current 35°C according to IEC 60947	274.1 A
Rating current 40°C according to IEC 60947	266.3 A
Rating current 45°C according to IEC 60947	258.3 A
Rating current 50°C according to IEC 60947	250 A
Rating current 55°C according to IEC 60947	241.4 A
Rating current 60°C according to IEC 60947	232.5 A
Rating current 65°C according to IEC 60947	223.3 A
Rating current 70°C according to IEC 60947	213.7 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	4.25 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	160 / 200 / 250 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
<b>Dimensions</b>	
Depth of installed product	97 mm
Height of installed product	165 mm
Width of installed product	105 mm
<b>Frequency</b>	
Frequency	50 to 60 Hz
<b>Power</b>	
Power loss per pole at 0.63*In	6.92 W
Power loss per pole at 0.8*In	10.82 W
Total power loss at 0.63*In	20.77 W
Total power loss at 0.8*In	32.45 W
Total power loss under IN	50.7 W
Power loss per pole at In	16.9 W
<b>Tripping</b>	

Short-time delayed tripping	No
-----------------------------	----

### Endurance

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

### Cover, door

Interlockable	Yes
---------------	-----

### Installation, mounting

Tightening torque	12Nm
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. flexible conductor	35 / 150mm <sup>2</sup>
Connection cross-sect. rigid cable	35 / 185mm <sup>2</sup>
Connection	Front connection
Type of connection	Terminal

### Protection

Instantaneous protection (Ii): type	fixed
-------------------------------------	-------

### Cable

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

### Settings

Range of the magnetic adjustment	1500 / 1750 / 2000 / 2250 / 2500 A
Magnetic protection nob setting xIN	6 / 7 / 8 / 9 / 10

### 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	Yes
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)

---

**temperatur**

Temperature of calibration	50 °C
----------------------------	-------