



HMT051DR

**Moulded Case Circuit Breaker h3+ P250 TM ADJ 4P4D N0-100% 50A 50kA FTC**

**Technical Features**

**Electric current**

Rated current	50 A
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 400 V AC IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 240 V AC IEC 60947-2	65 kA
Rated service breaking capacity I <sub>cs</sub> under 230 V AC according to IEC 60947-2	65 kA
Rated service breaking capacity I <sub>cs</sub> under 400 V AC according to IEC 60947-2	50 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 660 V AC IEC 60947-2	6 kA
Rated ultimate short-circuit breaking capacity I <sub>cu</sub> under 690 V AC IEC 60947-2	6 kA
Rated current 10°C according to IEC 60947	63.10 A
Rated current 15°C according to IEC 60947	61.60 A
Rated current 20°C according to IEC 60947	60.10 A
Rated current 25°C according to IEC 60947	58.50 A
Rated current 30°C according to IEC 60947	56.90 A
Rated current at 35°C according to IEC 60947	55.30 A
Rated current at 40°C according to IEC 60947	53.60 A
Rated current 45°C according to IEC 60947	51.80 A
Rated current 50°C according to IEC 60947	50 A
Rated current 55°C according to IEC 60947	48.10 A
Rated current at 60°C according to IEC 60947	46.20 A
Rated current 65°C according to IEC 60947	44.10 A
Rated current 70°C according to IEC 60947	42 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 <sub>imp</sub>	8000 V
Rated insulation voltage U <sub>i</sub>	800 V
Rated operational voltage U <sub>e</sub>	220 - 690 V

**Functions**

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

**Power**

Total power loss under I <sub>N</sub>	15 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	35 - 150 mm <sup>2</sup>
Cross-section rigid conductor	35 - 185 mm <sup>2</sup>

**Cover, door**

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

**Settings**

Thermal protection knob setting xI <sub>N</sub>	0.63 0.8 1
---	------------------

**Cable**

Cable material	Copper Aluminium
----------------	---------------------

**Compatibility**

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

**Dimensions**

Dimensions	165 x 140 mm
Height	165 mm
Width	140 mm
Depth	97 mm
Downstream busbar: width, height, diameter screw (max.)	4 mm 8.5 mm 25 mm
Top stream busbar: width, height, diameter screw (max.)	4 mm 8.5 mm 25 mm

**Installation, mounting**

Mounting-/Connection Position	Front
Nominal tightening torque	12 - 12 Nm
Nominal tightening torque down terminal	12 - 12 Nm
Nominal tightening torque top terminal	12 - 12 Nm

**Electrical protection**

Instantaneous protection (li): dial setting coefficient	6 8 10 13
---	--------------------

**Sustainability**

REACH-SVHC free	Yes
RoHS conform	Yes