Catalogue No: **P250-F-3-250-TM**

TBP MCCB 250 FRAME 36kA 3P 250A ADJ THERM ADJ MAG

Power Distribution and Protection > Circuit Breakers > Moulded Case Circuit Breakers > TemBreak PRO Moulded Case Circuit Breaker > TemBreak PRO 250 AF > 3 Pole





Representative Photo Only (actual product may vary based on configuration selections)

- General purpose power distribution, motor starting as well as energy metering and communications
- Current limiting device, reduces fault let through energy for increased installation safety
- Direct opening and indication of main contact status maximising machine and user safety
- Complies to AS / NZS 60947-2, IEC 60947-2 and CE
- Panel mount standard, with other mounting options
- 3 or 4 pole versions
- Suits XBP and XCP chassis, with panelboard options
- Fault ratings: 25, 36, 50, 70, 125 or 200 kA
- Trip unit options include thermal magnetic or electronic types

SPECIFICATIONS	
Switching Poles	3P
Component Type MCCB	MCCB AC
Model	P
Frame Size	250 AF size
Rated Frequency	50 / 60 Hz
Connection Mode	Cable Tunnel Clamp (Option) Extension Bar (Option) Front Connection Plug-in PM (Option) Plug-in UPX (Option) Rear Connection (Option) Withdrawable TPDR
Suitable for Distribution Switchboard or MCC	Yes
Trip Unit Rating	250 A
Trip Unit Protection Type	Adjustable Thermal Adjustable Magnetic
Ue, Rated Operational Voltage, AC, max	690 V AC
Utilisation Voltage (min - max)	24 V AC to 690 V AC, 250 V DC
Uimp, Impulse Withstand Voltage	8 kV
Ui, Rated Insulation Voltage	800 V (rms)
In, Rated Current at 30°C	250 A @30°C
In, Rated Current at 35°C	250 A @35°C
In, Rated Current at 40°C	250 A @40°C
In, Rated Current at 45°C	250 A @45°C
In, Rated Current at 50°C	250 A @50°C
In, Rated Current at 55°C	241 A @55°C
In, Rated Current at 60°C	232 A @60°C
In, Rated Current at 65°C	223 A @65°C
In, Rated Current at 70°C	213 A @70°C
Icm, Rated Short-Circuit Making Capacity, 690V AC	6 kA
Ics, Rated Service Short-Circuit Breaking Capacity, 415V AC	36 kA @415VAC



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Lang	Icu, Rated Ultimate Short-Circuit Breaking Capacity, 220/240V AC	50 kA @220/240VAC
Ruted Ultimate Short-Circuit Breaking Capacity, 440V 25 kA @440VAC Capacity Capacity, 690V Capacity Capacity, 690V Capacity Capacity, 690V Capacity Capacity, 690V Capacity	Icu, Rated Ultimate Short-Circuit Breaking Capacity, 415V	36 kA @415VAC
AC Power loss per pole at full rated current 16.9 W Number of Poles 3 Depth (loggle included) 95.5 mm Height 105 mm Writin 105 mm Writin 105 mm Writin 1.5 kg Dielactric Strength 2500 V AC Electrical Life 10000 cycles Mechanical Life 100000 cycles Mechanical Life 10000 cycles Mechanical Life 100000 cycles		
AC Power loss per pole at full rated current Number of Poles 3 Depth (toggle included) 95.5 mm Width 105 mm Pole Width 35 mm Weight 1.5 kg Dielectric Strength Electrical Life 10000 cycles Mechanical Life 10000 cycles Magnetic Dial setting Im (x in) 6 - 7 - 8 - 9 - 10 Cable Cross Section (Min) 35 mm² Cable Cross Section (Max) 185 mm² Terminal Type Bolt-Terminal Tightening Torque, Min 7.8 Nm Tightening Torque, Max 12.7 Nm Pollution Degree 3 DN rall mounting with optional adapter No Suitable for Panel Mounting Yes Suitable for Mounting on Chassis XBPS Chassis XBP		25 kA @440VAC
Number of Poles 3		6 kA @690VAC
Depth (loggle included)	AC Power loss per pole at full rated current	16.9 W
Height 165 mm Width 105 mm 10	Number of Poles	3
Width	Depth (toggle included)	95.5 mm
Pole Width	Height	165 mm
Weight 1.5 kg	Width	105 mm
Dielectric Strength 2500 V AC Electrical Life 10000 cycles Mechanical Life 30000 cycles Thermal dial setting range Ir (x In) 0.63 - 1 Magnetic Dial setting Im (x In) 6 - 7 - 8 - 9 - 10 Cable Cross Section (Min) 35 mm² Cable Cross Section (Min) 185 mm² Terminal Type Bolt-Terminal Tightening Torque, Min 7.8 Mm Tightening Torque, Max 12.7 Mm Pollution Degree 3 Sultable for Panel Mounting Yes Sultable for Mounting with optional adapter No Sultable for Mounting on Chassis RP Chassis XBP Chassis XBP Chassis XBP Chassis XBP Chassis XBP Chassis SBP Storage Temperature of trip unit 50 °C Storage Temperature, Min -10 °C min Storage Temperature, Min 50 °C Storage Temperature, Min 50 °C Crown Chassing Temperature, Min	Pole Width	35 mm
Electrical Life 10000 cycles Mechanical Life 30000 cycles Thermal dial setting range Ir (x In) 0.63 - 1 Magnetic Dial setting Im (x In) 6 - 7 - 8 - 9 - 10 Cable Cross Section (Min) 35 mm² Cable Cross Section (Max) 185 mm² Terminal Type Belt-Terminal Tightening Torque, Min 7.8 Nm Tightening Torque, Max 12.7 Nm Pollution Degree 3 Din rail mounting with optional adapter No Suitable for Panel Mounting Yes Suitable for Mounting on Chassis HC Chassis XBP Chassis XBP Chassis XBP SC Chassis YBP SC Chassis Y	Weight	1.5 kg
Mechanical Life 30000 cycles Thermal dial setting range ir (x In) 0.63 - 1 Magnetic Dial setting Im (x In) 6 - 7 - 8 - 9 - 10 Cable Cross Section (Min) 35 mm² Cable Cross Section (Max) 185 mm² Terminal Type Bolt-Terminal Tightening Torque, Min 7.8 Nm Tightening Torque, Max 12.7 Nm Poliution Degree 3 DIN rail mounting with optional adapter No Suitable for Panel Mounting Yes Suitable for Panel Mounting Yes Suitable for Mounting on Chassis XBP Chassis XBP Chassis XBP SC Chassis XBP Chassis XBP SC Chassis VBP Chassis Chassis	Dielectric Strength	2500 V AC
Thermal dial setting range Ir (x In) Magnetic Dial setting Im (x In) 6 - 7 - 8 - 9 - 10 Cable Cross Section (Min) 35 mm² Terminal Type Bolt-Terminal Tightening Torque, Min 7.8 Nm Tightening Torque, Max 12.7 Nm Pollution Degree 3 DIN rail mounting with optional adapter No Suitable for Panel Mounting Withdrawable No Standards Compliance LEC 60047-2 Rated temperature of trip unit 50 °C Storage Temperature, Min 10 °C min Operating Temperature, Max 70 °C max Relative Humidity, Max Relative Humidity, Max Relative Humidity, Max Ir, Thermal Trip Current, Min In, Thermal Trip Current, Min Magnetic Trip Current, Min	Electrical Life	10000 cycles
Magnetic Dial setting Im (x In) 6 - 7 - 8 - 9 - 10 Cable Cross Section (Min) 35 mm² Cable Cross Section (Max) 185 mm² Terminal Type Bolt-Terminal Tightening Torque, Min 7.8 Nm Tightening Torque, Min 7.8 Nm Tightening Torque, Max 12.7 Nm Pollution Degree 3 DIN rail mounting with optional adapter No Suitable for Panel Mounting Yes Suitable for Mounting on Chassis HC Chassis XBP SS Chassis Withdrawable No Standards Compliance AS/NZS 60947-2 IEC 60947-2 Rated temperature of trip unit 50 °C Storage Temperature, Min -10 °C min Storage Temperature, Max 70 °C max Operating Temperature, Max 70 °C max Relative Humidity, Max 85 %RH Ir, Thermal Trip Current, Min 160 A Ir, Thermal Trip Current, Min 1500 A Im, Magnetic Trip Current, Max Implication Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Ferminal Covers Under Voltage Trip Inder Voltage Trip I	Mechanical Life	30000 cycles
Cable Cross Section (Min) Cable Cross Section (Max) 185 mm² Cable Cross Section (Max) 185 mm² Terminal Type Bolt-Terminal Tightening Torque, Min 7,8 Mm Tightening Torque, Max 12,7 Nm Pollution Degree 3 DIN rail mounting with optional adapter No Suitable for Panel Mounting Yes Suitable for Mounting on Chassis HC Chassis XBP Chassis XBP Chassis XBP Chassis XBP Chassis XBP Chassis XBPSC Shassis XBPSC Shassis XBPSC Souscis Withdrawable No Standards Compliance AS/NZS 60947-2 Reted temperature of trip unit 50 °C Storage Temperature, Min -10 °C min Storage Temperature, Max 70 °C max Operating Temperature, Max 70 °C max Reteitve Humidity, Max 85 %RH Ir, Thermal Trip Current, Min 160 A Ir, Thermal Trip Current, Min 1500 A Im, Magnetic Trip Current, Min 1500 A Im, Magnetic Trip Current, Max Alam Switch Auxiliany Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operation Shurt Trip Terminal Covers Under Voltage Trip Under Voltage Trip Under Voltage Trip Terminal Covers Under Voltage Trip	Thermal dial setting range Ir (x In)	0.63 - 1
Cable Cross Section (Max) 185 mm² Terminal Type Bolt-Terminal Tightening Torque, Min 7.8 Mm Tightening Torque, Max 12.7 Nm Pollution Degree 3 DIN rail mounting with optional adapter No Suitable for Panel Mounting Yes Suitable for Mounting on Chassis HC Chassis XBP Chassis XBP S Chassis XBP S Chassis Withdrawable No Standards Compliance AS/NZS 60947-2 IEC 60947-	Magnetic Dial setting Im (x In)	6 - 7 - 8 - 9 - 10
Terminal Type Bolt-Terminal Tightening Torque, Min 7.8 Nm Tightening Torque, Max 12.7 Nm Pollution Degree 3 Solitable for Panel Mounting with optional adapter No Suitable for Panel Mounting Orchassis Withdrawable No Standards Compliance As/NZS 60947-2 IEC 60947-2 Rated temperature of trip unit 50 °C Storage Temperature, Min -10 °C min Storage Temperature, Max 70 °C max Operating Temperature, Max 70 °C max Relative Humidity, Max 85 %RH Ir, Thermal Trip Current, Min 160 A Ir, Thermal Trip Current, Min 1500 A Im, Magnetic Trip Current, Max 2500 A General Accessories As/Russia Vinner Sunner Sun	Cable Cross Section (Min)	35 mm²
Tightening Torque, Min 7.8 Nm Tightening Torque, Max 12.7 Nm Pollution Degree 3 DIN rail mounting with optional adapter No Suitable for Panel Mounting Or Chassis XBP Chassis XBP Chassis XBP SC Chassis XBP Chassis XBP SC Chassis	Cable Cross Section (Max)	185 mm²
Tightening Torque, Max 12.7 Nm Pollution Degree 3 DIN rail mounting with optional adapter No Suitable for Panel Mounting Yes Suitable for Mounting on Chassis Withdrawable No Standards Compliance AS/NZS 60947-2 IEC 60947-2 Rated temperature of trip unit 50 °C Storage Temperature, Min -10 °C min Storage Temperature, Min Operating Temperature, Min Operating Temperature, Min Operating Temperature, Max 70 °C max Relative Humidity, Max 85 %RH Ir, Thermal Trip Current, Min 160 A Ir, Thermal Trip Current, Min 1500 A Ilm, Magnetic Trip Current, Min General Accessories Alarm Switch Auxillary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shurt Trip Terminal Covers Under Voltage Trip	Terminal Type	Bolt-Terminal
Pollution Degree 3 DIN rail mounting with optional adapter No Suitable for Panel Mounting Yes Suitable for Mounting on Chassis Withdrawable No Standards Compliance AS/NZS 60947-2 IEC 60947-2 Rated temperature of trip unit 50 °C Storage Temperature, Min -10 °C min Storage Temperature, Max 70 °C max Operating Temperature, Max 70 °C max Relative Humidity, Max 85 %RH Ir, Thermal Trip Current, Min 160 A Ir, Thermal Trip Current, Min 1500 A Im, Magnetic Trip Current, Max 2500 A General Accessories Alarm Switches Alarm Switches Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Tightening Torque, Min	7.8 Nm
DIN rail mounting with optional adapter Suitable for Panel Mounting Yes Suitable for Mounting on Chassis HC Chassis XBP Chassis XBP Chassis XBP Chassis XBPSS Chassis Withdrawable No Standards Compliance AS/NZS 60947-2 IEC 60947-2 IEC 60947-2 Rated temperature of trip unit 50 °C Storage Temperature, Min -10 °C min Storage Temperature, Max 70 °C max Operating Temperature, Min -5 °C min Operating Temperature, Max 70 °C max Relative Humidity, Max 85 %RH Ir, Thermal Trip Current, Min 160 A Ir, Thermal Trip Current, Min 1500 A Im, Magnetic Trip Current, Max 250 A Im, Magnetic Trip Current, Max 2500 A General Accessories Alarm Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Tightening Torque, Max	12.7 Nm
Suitable for Panel Mounting Yes Suitable for Mounting on Chassis Suitable Suit	Pollution Degree	3
Suitable for Mounting on Chassis XBP Chassis XBP Chassis Withdrawable No Standards Compliance AS/NZS 60947-2 IEC 60947-2 Rated temperature of trip unit 50 °C Storage Temperature, Min 1-10 °C min Storage Temperature, Max 70 °C max Operating Temperature, Min -5 °C min Operating Temperature, Max 70 °C max Relative Humidity, Max 85 %RH Ir, Thermal Trip Current, Min 160 A Ir, Thermal Trip Current, Min 1500 A Im, Magnetic Trip Current, Min 1500 A General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	DIN rail mounting with optional adapter	No
Suitable for Mounting on Chassis XBP Chassis XBP Chassis Withdrawable No Standards Compliance AS/NZS 60947-2 IEC 60947-2 Rated temperature of trip unit 50 °C Storage Temperature, Min Coperating Temperature, Max 70 °C max Operating Temperature, Max 70 °C max Relative Humidity, Max 85 %RH Ir, Thermal Trip Current, Min In, Magnetic Trip Current, Min In, Magnetic Trip Current, Min General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip		Yes
Standards Compliance AS/NZS 60947-2 IEC 60947-2 Rated temperature of trip unit 50 °C Storage Temperature, Min -10 °C min Storage Temperature, Max 70 °C max Operating Temperature, Min -5 °C min Operating Temperature, Max 70 °C max Relative Humidity, Max 85 %RH Ir, Thermal Trip Current, Min 160 A Ir, Thermal Trip Current, Min 1500 A Im, Magnetic Trip Current, Max 2500 A General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Suitable for Mounting on Chassis	XBP Chassis
Rated temperature of trip unit 50 °C Storage Temperature, Min -10 °C min Storage Temperature, Max 70 °C max Operating Temperature, Min -5 °C min Operating Temperature, Max 70 °C max Relative Humidity, Max 85 %RH Ir, Thermal Trip Current, Min 160 A Ir, Thermal Trip Current, Max 250 A Im, Magnetic Trip Current, Max 2500 A General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Withdrawable	No
Storage Temperature, Min -10 °C min Storage Temperature, Max 70 °C max Operating Temperature, Min Operating Temperature, Max 70 °C max Relative Humidity, Max Relative Humidity, Max Ir, Thermal Trip Current, Min Ir, Thermal Trip Current, Min Im, Magnetic Trip Current, Min Im, Magnetic Trip Current, Max Seneral Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Standards Compliance	
Storage Temperature, Max Operating Temperature, Min Operating Temperature, Max To °C max Relative Humidity, Max Relative Humidity, Max Ir, Thermal Trip Current, Min Ir, Thermal Trip Current, Max Im, Magnetic Trip Current, Min Im, Magnetic Trip Current, Max Son A Im, Magnetic Trip Current, Max Son A General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Rated temperature of trip unit	50 °C
Operating Temperature, Min Operating Temperature, Max 70 °C max Relative Humidity, Max 185 %RH Ir, Thermal Trip Current, Min 160 A Ir, Thermal Trip Current, Max 250 A Im, Magnetic Trip Current, Min 1500 A Im, Magnetic Trip Current, Max 2500 A General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Storage Temperature, Min	-10 °C min
Operating Temperature, Max Relative Humidity, Max 85 %RH Ir, Thermal Trip Current, Min 160 A Ir, Thermal Trip Current, Max 250 A Im, Magnetic Trip Current, Min 1500 A Im, Magnetic Trip Current, Max 2500 A General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Storage Temperature, Max	70 °C max
Relative Humidity, Max Ir, Thermal Trip Current, Min Ir, Thermal Trip Current, Max 250 A Im, Magnetic Trip Current, Min Im, Magnetic Trip Current, Min Im, Magnetic Trip Current, Max 2500 A Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Operating Temperature, Min	-5 °C min
Ir, Thermal Trip Current, Min Ir, Thermal Trip Current, Max 250 A Im, Magnetic Trip Current, Min Im, Magnetic Trip Current, Min Im, Magnetic Trip Current, Max 2500 A General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Operating Temperature, Max	70 °C max
Ir, Thermal Trip Current, Max Im, Magnetic Trip Current, Min Im, Magnetic Trip Current, Max 2500 A Im, Magnetic Trip Current, Max 2500 A General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Relative Humidity, Max	85 %RH
Ir, Thermal Trip Current, Max Im, Magnetic Trip Current, Min Im, Magnetic Trip Current, Max 2500 A Im, Magnetic Trip Current, Max 2500 A General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Ir, Thermal Trip Current, Min	160 A
Im, Magnetic Trip Current, Min Im, Magnetic Trip Current, Max 2500 A General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	· · · · · · · · · · · · · · · · · · ·	250 A
General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Im, Magnetic Trip Current, Min	1500 A
General Accessories Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip	Im, Magnetic Trip Current, Max	2500 A
Vibration Acceleration (Max.) 19 m/s ²		Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers
	Vibration Acceleration (Max.)	



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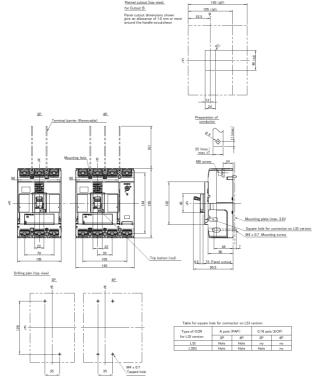
TBP MCCB 250 FRAME 36kA 3P 250A ADJ THERM ADJ MAG





Vibration Frequency, Operational (Max.)	16.7 Hz
Vibration Duration (Max.)	12 min
Certifications	CE DEKRA
Shipping Approvals	Contact NHP

REFERENCES	
IECEx Certificate	-
Supplier Declaration of Conformity:	-
Installation Guide:	-
User Manual:	-
Manufacturer Datasheet:	-
Manufacturer Catalogue & Product Selection:	-



Dimension Diagram