

Catalogue No: P160-N2-3-20-TM

TBP MCCB 160 FRAME 50kA 30PP 3P 20A ADJ THERM ADJ MAG

Power Distribution and Protection > Circuit Breakers > Moulded Case Circuit Breakers > TemBreak PRO Moulded Case Circuit Breaker > TemBreak PRO 160 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
- 1, 2, 3 or 4 pole versions
- Suits XAP 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	160 AF size
Rated Frequency	50 / 60 Hz
Connection Mode	Cable Tunnel Clamp (Option) DIN rail adaptor (Option) Extension Bar (Option) Front Connection Plug-in PM (Option) Plug-in UPX (Option) Rear Connection (Option)
Suitable for Distribution Switchboard or MCC	Yes
Trip Unit Rating	20 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	20 A @30°C
In, Rated Current at 35°C	20 A @35°C
In, Rated Current at 40°C	20 A @40°C
In, Rated Current at 45°C	20 A @45°C
In, Rated Current at 50°C	20 A @50°C
In, Rated Current at 55°C	18.5 A @55°C
In, Rated Current at 60°C	18 A @60°C
In, Rated Current at 65°C	17 A @65°C
In, Rated Current at 70°C	17 A @70°C
Icm, Rated Short-Circuit Making Capacity, 690V AC	6 kA
Ics, Rated Service Short-Circuit Breaking Capacity, 415V AC	50 kA @415VAC

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Icu, Rated Ultimate Short-Circuit Breaking Capacity, 250V DC	40 kA @250VDC
Icu, Rated Ultimate Short-Circuit Breaking Capacity, 220/240V AC	85 kA @220/240VAC
Icu, Rated Ultimate Short-Circuit Breaking Capacity, 415V AC	50 kA @415VAC
Icu, Rated Ultimate Short-Circuit Breaking Capacity, 440V AC	35 kA @440VAC
Icu, Rated Ultimate Short-Circuit Breaking Capacity, 690V AC	6 kA @690VAC
Power Loss	24.9 W
AC Power loss per pole at full rated current	8.3 W
Number of Poles	3
Depth (toggle included)	95.5 mm
Height	130 mm
Width	90 mm
Pole Width	30 mm
Weight	1 kg
Dielectric Strength	2500 V AC
Electrical Life	30000 cycles
Mechanical Life	50000 cycles
Thermal dial setting range Ir (x In)	0.63 - 1
Magnetic Dial setting Im (x In)	6 - 8 - 10 - 12
Cable Cross Section (Min)	1.5 mm ²
Cable Cross Section (Max)	70 mm ²
Terminal Type	Screw Terminal(s)
Tightening Torque, Min	4.9 Nm
Tightening Torque, Max	6.9 Nm
Pollution Degree	3
Suitable for Panel Mounting	Yes
Suitable for Mounting on Chassis	XAP 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, Min	-5 °C min
Operating Temperature, Max	70 °C max
Relative Humidity, Max	85 %RH
Ir, Thermal Trip Current, Min	12.5 A
Ir, Thermal Trip Current, Max	20 A
Im, Magnetic Trip Current, Min	120 A
Im, Magnetic Trip Current, Max	240 A
General Accessories	Alarm Switch Auxiliary Switches Handle Operators Interpole Barriers Locking Devices Mechanical Interlock Motor Operator Shunt Trip Terminal Covers Under Voltage Trip
Vibration Acceleration (Max.)	19 m/s ²

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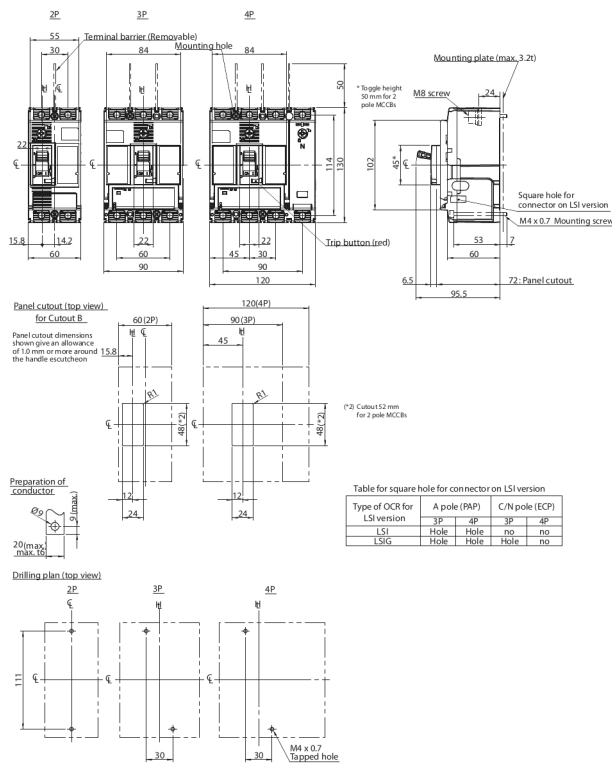
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Vibration Frequency, Operational (Max.)	16.7 Hz
Vibration Duration (Max.)	12 min
Certifications	CE DEKRA
Shipping Approvals	Contact NHP

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



Dimension Diagram