

# MOTOR PROTECTION CIRCUIT BREAKERS

## PRODUCT PROFILE

ATC Diversified's **Motor Protection Circuit Breakers** provide reliable overload and short circuit protection and are ideal for use in group motor installations—providing space, labor and cost savings. For the simplest applications, they can also be used by themselves as manual motor controllers.



### DELIVERING SUPERIOR PRODUCT QUALITY AND MANUFACTURING EXCELLENCE

✓ <b>Proven</b>	Our Motor Protection Circuit Breakers are UL Listed and CE marked meeting global standards requirements.
✓ <b>Compact</b>	Only 45mm (1-49/64") wide up to 20HP @ 460V (15kW @ 400V) in both thermal and magnetic and magnetic only versions.
<b>Added Safety</b>	IP20 guarded terminals with dual terminal markings prevent accidental contact with live parts.
✓ <b>Full Line of Accessories</b>	Including side-mounted auxiliary contacts for motor protection circuit breakers. Snap-on accessories are easily installed without the use of tools.
✓ <b>Modular Design</b>	Modular design allows ATC Motor Protection Circuit Breakers to be easily used with the complete range of CON Series Contactors and accessories.
✓ <b>Easy to Install</b>	35mm DIN rail mounting for fast and easy installation and removal, or panel mounting with mounting feet for more secure installation in high shock and vibration applications.
✓ <b>Visible Markings</b>	High visibility labels and markings; dual IEC and NEMA terminal markings for ease of wiring anywhere in the world.
✓ <b>Space Savings</b>	Control panel sizes can be reduced because the short circuit protection provided by the ATC MPCBs enables individual motor branch circuit fuses or circuit breakers and overload relays to be eliminated.

### UNIQUE PRODUCT LINE FEATURES

#### Multi-Function Device

- Our MPCBs are certified as Manual Motor Controllers Suitable as Motor Disconnects, can be used in Group Motor Installations, and can be used to manually control individual motors and protect them against overload and short circuit currents.

#### High Fault SCCR

- High fault short circuit current rating of 50kA @ 480V provides safety and reliability in high fault applications.

#### Seamless Compatibility

- The modular design of our MPCBs allow for direct mounting onto CON Series (9A to 40A) AC/DC Contactors.

#### Adjustable Current Setting

- Full load current adjustment ratio enables overload relay to be set to exact FLA of motor. Provides phase protection for the motor against overload currents.

#### Snap-On Accessories

- Snap-on accessories are easily installed without the use of tools, lowering assembly and installation costs.

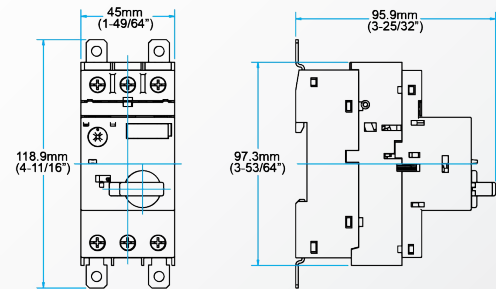
	MPB	T
<b>Adjustment Range</b>		
1.6 - 2.5 Ampere	2R5	
2.5 - 4.0 Ampere	4	
4.0 - 6.3 Ampere	6R3	
6.3 - 10 Ampere	10	
10 - 16 Ampere	16	
16 - 20 Ampere	20	
20 - 25 Ampere	25	
<b>Operator Type</b>		
32A w/Thermal & Magnetic Trip Elements		T

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## SPECIFICATIONS

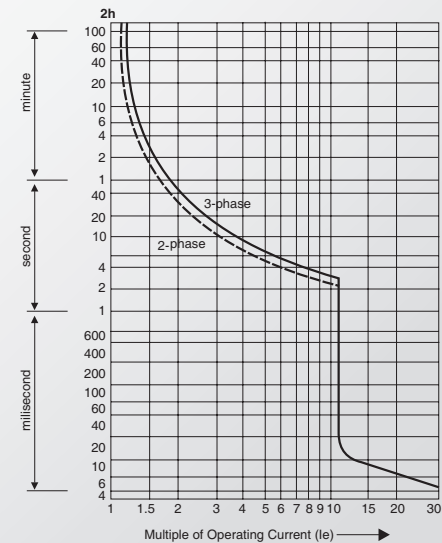
	UNITS	
<b>ELECTRICAL GENERAL</b>		
Rated Operating Current	A	32
Current Setting Range ①	A	0.1 ~ 32
Magnetic Trip Current	A	13x Rated Operating Current
Power Operating Frequency	Hz	50/60
Electrical Life	Ops.	100,000
Max. Operating Rate	Ops./Hr.	15
<b>ELECTRICAL UL/CSA APPLICATIONS</b>		
Rated Operating Voltage, Ue	VAC	600
<b>RATED 1 PHASE OPERATING POWER, Pe</b>		
115V	HP	2
230V	HP	5
<b>RATED 3 PHASE OPERATING POWER, Pe</b>		
200V	HP	10
230V	HP	10
460V	HP	20
575V	HP	25
<b>MANUAL MOTOR CONTROLLER, MAX. SHORT CIRCUIT CURRENT</b>		
@ 480V	kA	50
@ 600V	kA	25
<b>MANUAL MOTOR CONTROLLER IN GROUP INSTALLATIONS, MAX. SHORT CIRCUIT CURRENT</b>		
@ 480V	kA	50
Max. Fuse ②	A	450
@ 600V	kA	25
Max. Fuse ②	A	450
<b>MANUAL MOTOR CONTROLLER SUITABLE FOR TAP CONDUCTOR PROTECTION IN GROUP INSTALLATIONS, MAX. SHORT CIRCUIT CURRENT</b>		
@ 480V	kA	50
Max. Fuse ②	A	450
@ 600V	kA	25
Max. Fuse ②	A	450
<b>MECHANICAL</b>		
Mechanical Life	Ops.	100,000
<b>ENVIRONMENTAL</b>		
Ambient Operating Temp.	°C / °F	-20 to 60 / -4 to 140
Ambient Storage Temp.	°C / °F	-50 to 80 / 58 to 176
Altitude	m / ft.	2,000 / 6,562
Shock	g	15
<b>ROHS COMPLIANCE</b>		
① MPCB with thermal and magnetic trip elements only.		
② Not to exceed the max. fuse/circuit breaker size, per the National Electrical Code.		

## DIMENSIONS



## TRIP CHARACTERISTICS

MPCB with Thermal and Magnetic Trip Elements



For magnetic only curve, refer to [www.ATCDiversified.com](http://www.ATCDiversified.com)

## PROVEN

### Conformity to Standards:

UL 508, 60947-4-1A

CSA C22.2 No. 14

IEC 60947-1, 60947-4-1

### Certifications:

UL File #: E187641 (Guide NLRV, NLRV7),

E312106 (Guide NKJH, NKJH7)

CE Marked (per EU Low Voltage Directive

2006/95/EC and RoHS Directive

2011/65/EU)

