

# Innovative AmpTip™ Jaws for Slim-Conductors In CAT-III 600V Areas

Ergonomic All-In-One AC/DC 600A,  
3-Terminal RST Phase-Rotation,  
HVAC, AC+DC TRMS

World-wide Patented:

D148256  
2001176  
D678,092S  
402011006273.9  
M438628  
2755507  
13486915  
202012102140.4  
M429871  
2359464  
202011052429.9



## BM070 Series

### AmpTip™ Jaws Clamp-on DMMs



BRIGHT PEOPLE'S CHOICE  
<http://www.brymen.com>



**BM079**



**BM078**



**BM077**



**BM076**



**BM073**



**BM072**

079	078	077	076	073	072	FUNCTIONS & FEATURES
●	●	●	●	●	●	VFD-V & Hz for fundamental V/Hz of most Variable-Frequency-Drives
●	●	●	●	●	●	Fast measurement updates 5/sec
●	●	●	●	●	●	3-5/6 digits 6,000 counts display large LCD
●	●	●				35mm conductor size Hall-effect 600A DC/AC jaws
			●	●	●	30mm conductor size Ultra-slim 600A AC jaws
●	●	●	●	●	●	AmpTip™ Low-current-range calibrated at Jaw-tip for slim-conductors
●	●	AC	AC	AC	AC	AC+DC, AC True RMS voltage and current functions
●	●	●	●	●	●	600VAC/DC input protection on general functions
●	●	●	●	●	●	Auto Power Off
●	●	●	●	●	●	Data HOLD
●	●	●	●	●	●	Record MAX/MIN/AVG mode (Auto-ranging)
●	●	●	●	●		Relative mode (Auto-ranging) with DC-Zero mode on DCA, DC+ACA ranges
●	●		●			Fast 80ms PEAK-RMS mode to capture in-rush currents
●	●		●			Back-lighted easy-to-read LCD display
●	●	●	●	●	●	Non-Contact EF-Detection (NCV)
●	●	●	●	●	●	Probe-Contact EF-Detection for more precise indication of live
●			●			Ⓡ 3Φ-Rotation-R for MAINS supply (Probe-contact)
●			●			Ⓜ 3Φ-Rotation-M (Hi-sensitivity mode) for Motors (Probe-contact)
●			●			Type-K temperature -40.0°C to 400°C or -40.0°F to 752°F selectable
●			●			DCμA ranges 200.0μA to 2000μA (via leads) for HVAC flame sensors
●	●					DC+ACA ranges 60.00A to 600.0A + AmpTip™ DC+ACA 60.00A range
●	●	●				DCA ranges 60.00A to 600.0A + AmpTip™ DCA 60.00A range
●	●	●	●	●	●	ACA ranges 60.00A to 600.0A + AmpTip™ ACA 60.00A range
●	●					DC+ACV range 600.0V
●	●	●	●	●	●	DCV range 600.0V
●	●	●	●	●	●	ACV range 600.0V
●	●	●	●	●	●	Ohm ranges 600.0Ω to 60.00kΩ
●	●		●	●		Cx ranges 200.0μF to 2500μF for start & run motor capacitors
●	●	●	●	●	●	Diode test & Fast audible Continuity
●	●	●	●	●	●	Line-level ACV Frequency 5.00Hz to 999.9Hz
●	●	●	●	●	●	Soft carrying pouch
●	●	●	●	●	●	Rugged fire retarded casing with battery access door
●	●	●	●	●	●	Transient protection 6kV 1.2/50μs lightning surge
●	●	●	●	●	●	LVD EN61010-1/61010-2-032/61010-2-033 to CAT III 600V & CAT IV 300V
●	●	●	●	●	●	EMC EN61326-1 (EN55022, EN61000-3-2/-3 & EN61000-4-2/-3/-4/-5/-6/-8/-11)

# Handy 600A! CAT III 600V! Patented AmpTip™ Jaws & Phase Rotation!

Advanced Safety Compliance with IEC 61010-2-032 3rd Edition and IEC 61010-2-033 1st Edition

Investigated, Tested and Listed by UL, a global independent safety science company

**AC+DC TRUE RMS MEASUREMENTS (BM079, & 078 ONLY)**  
For Non-sinusoidal & Complex Waveforms Of Voltages & Currents

**LVD CAT III 600V & CAT IV 300V**  
Certified EN61010-2-032, EN61010-2-033, EN61010-1 & Relevant UL Standards On CAT III 600V & CAT IV 300V

**DIODE TEST**  
For Testing Diodes & Rectifiers

**FAST AUDIBLE CONTINUITY**  
For Quick Open-short Tests On Switches, Fuses, And Wires

**REGULAR CURRENT & Hz**  
Measures At Jaw Center For Regular Conductors Up To 600 Amps

**AmpTip™ LOW-CURRENT & Hz**  
Ergonomically Measures At Jaw Tip For Small-sized Conductors Up To 60 Amps

**VFD V & Hz FEATURE**  
Measures Fundamental Voltage & Frequency Of Most Variable Frequency Drives

**FULLY AUTO-RANGING DMM**  
Shortens The Time To Measure And Increases The Ease Of Use

**AUTO-POWER-OFF**  
Extends Battery Life

**IN-RUSH PEAK-RMS (BM079, 078, & 076 ONLY)**  
Captures In-rush Peak RMS Readings At Durations As Short As 80ms

**RECORD MAX / MIN / AVG**  
Records Max, Min, & Calculates Avg Readings Over Time. Auto-ranging

**BACKLIGHTED LCD DISPLAY (BM079, 078, & 076 ONLY)**  
For Easy Viewing In The Dark

**EMC**  
Meets EN61326-1:2006 (EN55022, EN61000-3-2/1-3 & EN61000-4-2/1-3/4/1-5/1-6/1-8/1-11)

**TRANSIENT PROTECTION**  
Up To 6kV 1.2/50µs Lightning Surge; More Confidence For Serious Users

**TYPE-K TEMPERATURE (BM079 & 076 ONLY)**  
Selectable °C And °F Readings; Comes With Bkp60 Bead Probe

**HANDY 35mm AmpTip™ CLAMP JAWS (30mm FOR ACA ONLY MODELS)**  
For Large & Small Conductors With AC Or DC+AC TRMS 600A Capability

**EF-DETECTION**  
Both Non-Contact (NCV) & Single-Probe Voltage Detection For Identifying Live Lines

**DCµA (BM079 & 076 ONLY)**  
For HVAC Flame Sensors Testing Via Test Probes

**PHASE ROTATION (BM079 & 076 ONLY)**  
Dual Sensitivity Modes For Both Motors And Supply Systems

**CAPACITANCE (EXCEPT BM072)**  
2 Auto-ranges Up To 2500µF To Measure Motor Capacitors

**RESISTANCE**  
3 Auto-ranges Up To 60kΩ Best Resolution 0.1Ω At 600Ω Range

**ERGONOMIC & STREAMLINE BODY**  
Also Comes With A Soft Pouch For Easy Carrying & Protection

**1.0% DCV BASIC ACCURACY**  
DCV Up To 600V; ACV Up To 600V

**RELATIVE ZERO & DC\_ZERO**  
For Convenient Readings Comparison As Well As DC Jaws Hysteresis Offset

**DATA HOLD**  
Freezes The Displaying Reading For Later View

**RUGGED & DURABLE**  
High-impact Fire-retarded Enclosure With Battery Compartment & Access Door

