

## V-EA and MA Manual Motor Controllers Accessories



Accessories can be factory or field mounted on V-EA and MA manual motor controllers for enhanced control and monitoring capabilities. Field mounting kits include all necessary parts and instructions. Accessories can be gang mounted on a single controller (the Auxiliary Switch in the outside position). The mounting arrangement links the internal latch-pins for the tripping mechanisms, ensuring simultaneous trips. Handles are linked to simplify manual resetting.

\* Reset-Hold Voltage =  $0.85 \times V_E$ ; Drop-Out Voltage =  $0.2 \times V_E$

### FA - Shunt Trip



| Type/<br>Cat. No. | Trip/Coil<br>Voltage<br>AC or DC | Max. Coil<br>Current | Approvals |
|-------------------|----------------------------------|----------------------|-----------|
| FA12UM            | 12V                              | 1.3A                 | UL SP     |
| FA24UM            | 24V                              | 0.6A                 | UL SP     |
| FA48UM            | 48-72V                           | 0.2A                 | UL SP     |
| FA110UM           | 110V/220V                        | 0.25A/0.5A           | UL SP     |

Standard Pack: 5  
Weight: 525 grams (1.16 lb.)  
Width: 17.5mm (.689in.)

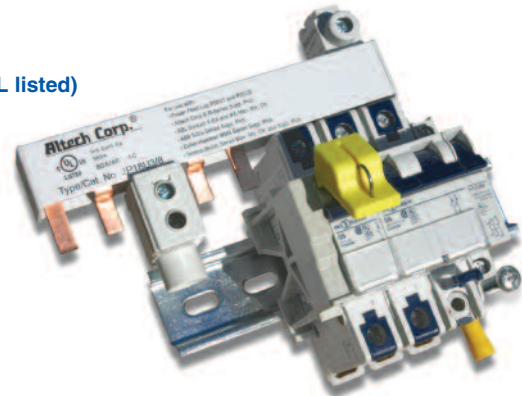
### UA - Undervoltage Trip (not UL listed)



| Type/<br>Cat. No. | Line Voltage<br>60Hz* |
|-------------------|-----------------------|
| UA120UM           | 120VAC                |
| UA220UM           | 220VAC                |

Reset-Hold Voltage =  $0.85 \times V_E$   
Drop-Out Voltage =  $0.35 - 0.7 \times V_E$

Standard Pack: 5  
Weight: 750 grams (1.65 lb.)  
Width: 17.5mm (.689in.)



For further Busbar information please see our comprehensive Altech Universal Power Distribution catalog.

### H - Auxiliary Switch



| Type/<br>Cat. No. | No. of<br>Contacts | Contact<br>Type | Contact<br>Rating   | Wire<br>Size              | For Use<br>with: | Approvals |
|-------------------|--------------------|-----------------|---|---------------------------|------------------|-----------|
| H10UM             | 1                  | 1NO             | 10A / 220V AC<br>3A / 110V DC or pulsed<br>1A / 220V DC or pulsed | 4mm <sup>2</sup> (12 AWG) | V-EA, MA         | UL SP     |
| H11UM             | 2                  | 1NO + 1NC       |   |                           |                  | UL SP     |
| H12UM             | 3                  | 1NO + 2NC       |   |                           |                  | UL SP     |
| H21UM             | 3                  | 2NO + 1NC       |   |                           |                  | UL SP     |

Standard Pack: 10  
Weight: 450 grams (0.99 lb.)  
Width: 9mm (.354in.)

### Add-on Neutral Pole



| Type/<br>Cat. No. | Rating                | Approvals |
|-------------------|-----------------------|-----------|
| N63UM             | 0.3-63A/<br>480Y/277V | UL SP     |

Standard Pack: 5  
Weight: 0.775kg (1.71lb.)  
Width: 17.5mm (.689in.)

\* Please consult Altech for other voltages and your 50Hz application needs.