

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

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

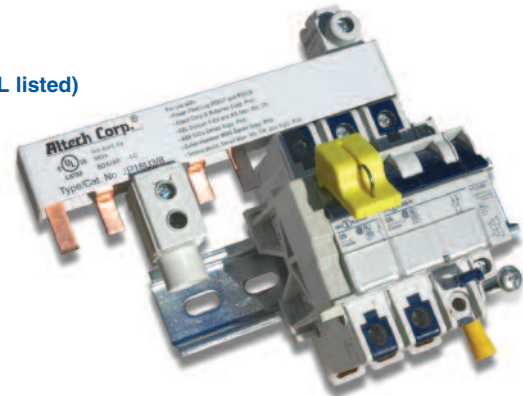


### UA - Undervoltage Trip (not UL listed)

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

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



### Add-on Neutral Pole

Type/ Cat. No.	Rating	Approvals
N63UM	0.3-63A/ 480Y/277V	UL SF

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

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