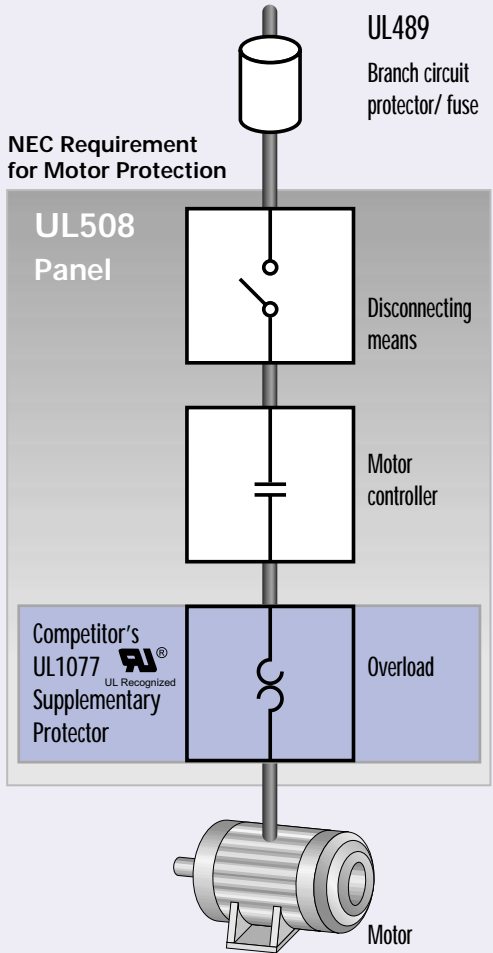
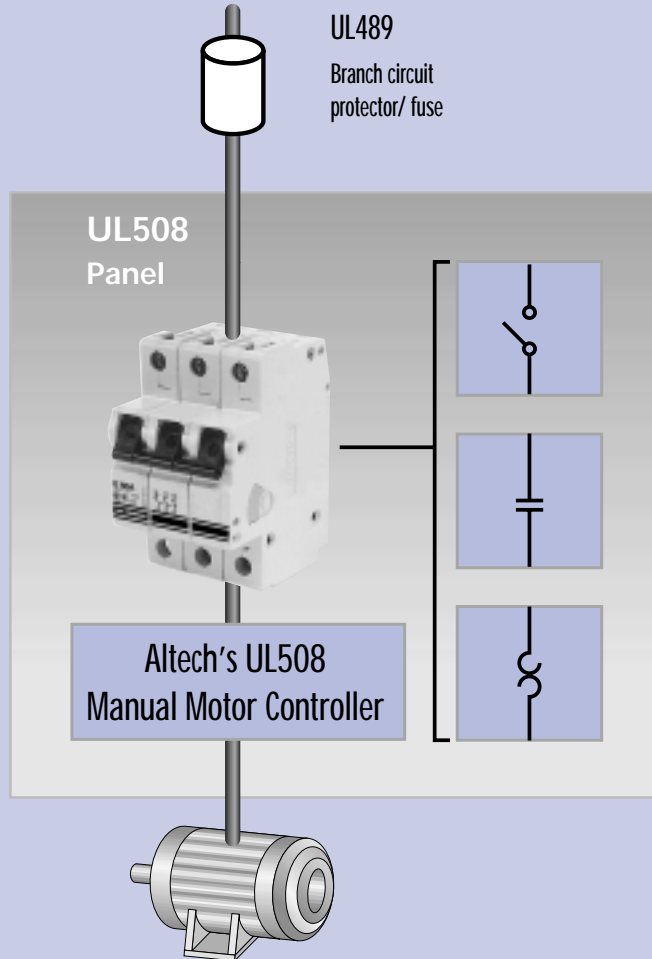


# Competitors UL1077 Offering

## Single Motor Installation



## Single Motor Installation



## Altech's UL Listed Manual Motor Controllers

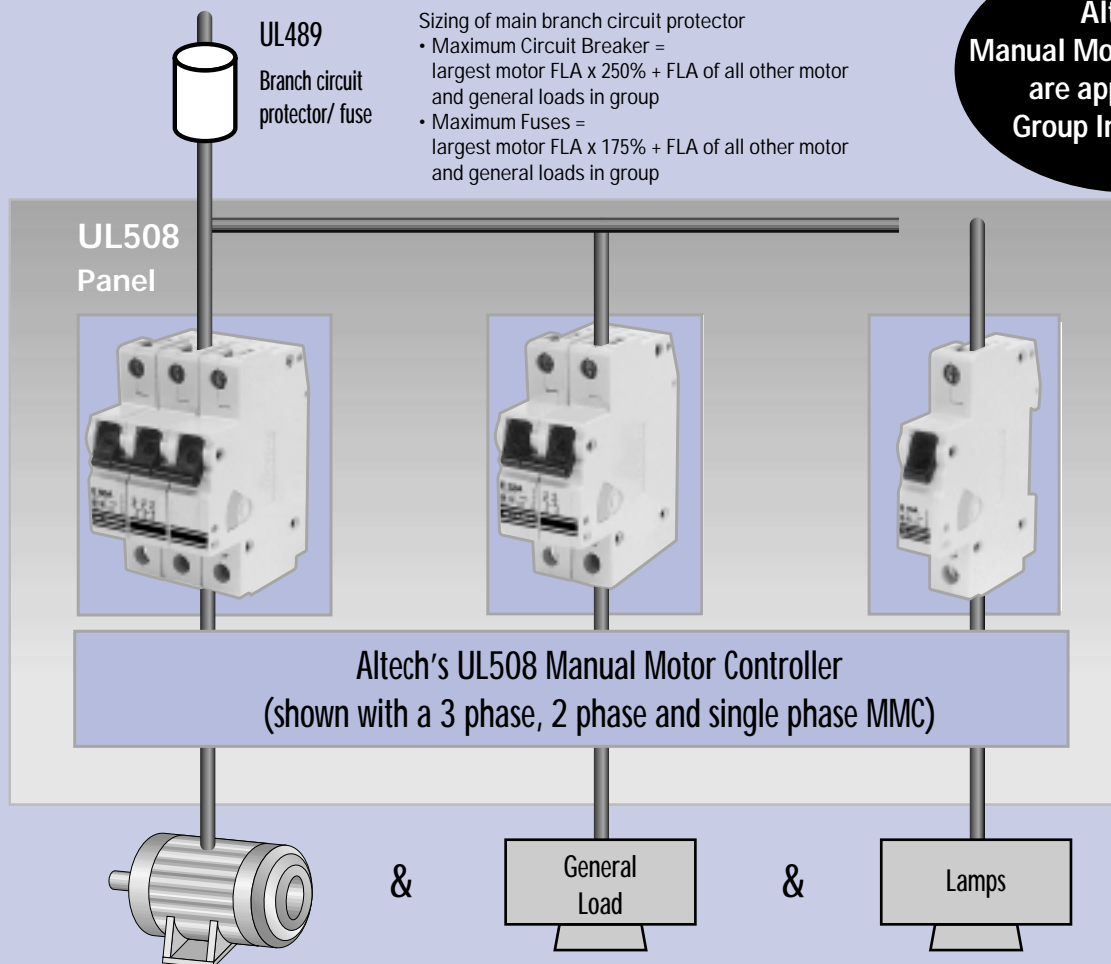
### General

Altech's manual motor controller is UL listed. The UL Listed mark on the MCB is the manufacturer's representation that samples of the complete product have been tested by UL to be used for most common industrial applications. This superior UL mark allows for field installation without the need for UL investigation.

A competitor's UL recognized component mark on the MCB means that the component alone meets the requirements for a limited, specific use. These MCBs are not intended for separate installation in the field, they are intended for use as a component of complete equipment submitted to UL for investigation.

## The **Altech**<sup>®</sup> UL508 Solutions Save money and panel space!

### Motor Group Installation



**Altech's Manual Motor Controllers are approved for Group Installations**

#### Field Installations

A licensed electrician can install UL508 Manual Motor Controllers for the following uses:

- AC Motor Starting (Across the line)
- AC General Use
- AC Resistance
- AC Discharge Lamps (Ballast)
- AC Incandescent Lamps (Tungsten)

#### Motor Branch Circuit Uses

(in accordance with NEC<sup>®</sup> Section 430)

##### UL508 Manual Motor Controller

- Disconnect Means/ Disconnect Switch
- Controller and Overload Protection Combination
- Controller and Disconnect Means Combination

##### UL 1077 supplementary protector

- None

#### Interchangeability

A UL Listed Manual Motor Controller can be used in place of UL 1077 Recognized supplementary protector, where UL allowed to use a supplementary protector for a specific application.

*However a UL Recognized supplementary protector cannot be used in place of UL Listed Manual Motor Controller for a specific application.*

# V-EA MINIATURE CIRCUIT BREAKER/MANUAL MOTOR CONTROLLER TRIP CURVE SELECTION GUIDE



## Warning!

This information should only be used as a selection guide. The use of a Miniature Circuit Breaker/Manual Motor Controller in an application with a certain Trip-Characteristic always requires prototype testing! It is the responsibility of the circuit design engineer to select the appropriate Miniature Circuit Breaker/Manual Motor Controller for his specific application.

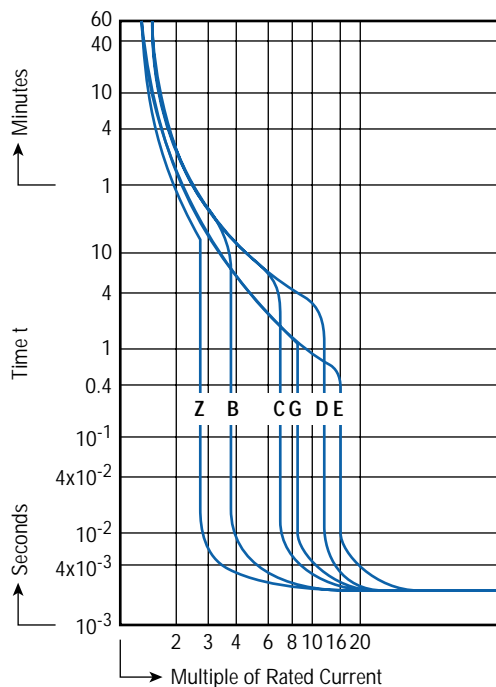
### Trip-Characteristics\*

### Applications

Characteristic Trip Boundaries				Lighting	Wiring Protection	Business Equipment	Appliances	Control Circuits	Transformers	Power Supplies
Thermal Trip		Magnetic Trip								
Must not Trip >100ms	Must Trip <1hr	Must not Trip >100ms	Must Trip at 100ms							
<b>B-Characteristics</b>				<b>Pages 8-9</b>	<b>Pages 8-9</b>	<b>Pages 8-9</b>	<b>Pages 8-9</b>	<b>Pages 8-9</b>		
1.13xRC	1.45xRC	3xRC	5xRC							
<b>C-Characteristics</b>				<b>Pages 10-11</b>	<b>Pages 10-11</b>	<b>Pages 10-11</b>	<b>Pages 10-11</b>	<b>Pages 10-11</b>		
1.13xRC	1.45xRC	5xRC	10xRC							
<b>D-Characteristics</b>									<b>Pages 12-13</b>	<b>Pages 12-13</b>
1.13xRC	1.45xRC	10xRC	16xRC							
<b>E-Characteristics</b>										
1.05xRC	1.35xRC	14xRC	18xRC							
<b>G-Characteristics</b>				<b>Pages 16-17</b>	<b>Pages 16-17</b>				<b>Pages 16-17</b>	<b>Pages 16-17</b>
1.05xRC	1.35xRC	8xRC	10xRC							
<b>Z-Characteristics</b>										
1.05xRC	1.35xRC	2xRC	3xRC							

\*The value of each characteristic is shown vertically beneath its corresponding heading.

## TIME VERSUS CURRENT TRIP CURVE



*For the exact trip curve, please refer to appropriate catalog pages.*

## Approvals/Standards:



USA



Canada



Germany



Europe



International

## Applications

Heaters	Motors				General Electronics	Solenoid	Semi-conductors	Components/ devices with low surge-current and short circuit withstand capabilities	Reactive Load
	General	Low Inrush	High Inrush	High Efficiency					
					Pages 8-9				
		Pages 10-11							
Pages 12-13			Pages 12-13						Pages 12-13
				Pages 14-15					
	Pages 16-17	Pages 16-17				Pages 16-17			
					Pages 18-19		Pages 18-19	Pages 18-19	



508 listed

UL file E137938



C22.2 No.14 certified

CSA file LR104391

## Manual Motor Controller "Suitable as Motor Disconnect"

- AC Motor Starting, Across the Line
- AC General Use
- AC Resistance
- AC Discharge Lamps (Ballast)
- AC Incandescent Lamps (Tungsten)