35 Royal Road • Flemington, NJ 08822-6000 • t 908-806-9400 • f 908-806-9490 • altechcorp.com

UL 489 Miniature Molded Case Circuit Breakers

DLS9 Series (AC/DC)

- Thermal magnetic
- DIN Rail mountable
- 17.5 mm width per pole
- Available in 1, 2 & 3 poles (4 poles upon request)
- HACR Type 40°C
- Line/Load Reversible



LISTED C.B. E329510

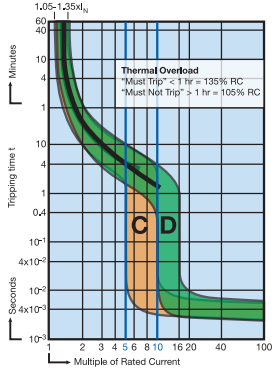
IEC 60947-2 Short Circuit Tested

Current/Voltage Rating	UL Series DL Series	0.3-63A / 240V AC, 0.3-32A / 480Y / 277V AC 0.3-63A / 125 / 250V DC (1 & 2 poles)
Trip Curve	C (5-10 times RC), D (10-16 times RC), Upon Request: B (3-5 times RC) and Z (2-3 times RC)	
Short Circuit Interrupting Capacity	10KA	
Ambient Temperature	-25°C to +70°C (-40F to 158°F)	
Storage Temperature	-40°C to +70°C (-40°F to 158°F)	
Calibration Temperature	40°C (104°F)	
Electrical Life	6,000 switching cycles ON/OFF	
Mechanical Life	10,000 switching cycles ON/OFF	
Accessories	• Auxiliary Switches • Cooling Spacer	• Touch Protection Caps • Shunt Trip • Neutral Pole • Lockout Adapter
Applications	• **Branch Protection** • Receptacle circuits (internal / external) • Motor control circuits • Power supplies	• Control instrumentation • Power conditioners • Relays

COMPETITORS

Manufacturer Series

ABB.....S200U, S200UP, SU200M
Allen Bradley...1489-M
Eaton.....FAZ-NA, WMZT
GE.....EP100ULH12
Schneider.....C60UL489



C & D AC Trip Curves

For all trip curves visit altechcorp.com/breakers

UL 508 Manual Motor Controllers

"Suitable as Motor Disconnect"

DLS8 Series

- Thermal Magnetic
- DIN Rail Mounted
- 17.5mm width per pole
- Available in 1, 2 & 3 poles (4 poles upon request)



E137938

up to 25A B,C,D curve

up to 25A B,C,D curve

Current/Voltage Rating	0.3-60A / 480Y / 277V AC 0.3-25A: 1 pole - 42V DC; 2 pole - 80V DC 30-60A: 1 pole - 24V DC; 2 pole - 60V DC
Trip Curve	B (3-5 times RC), C (5-10 times RC), D (10-16 times RC), E (14-18 times RC), G (8-10 times RC) and Z (2-3 times RC)
Short Circuit Withstand Rating	0.3-60A(RC): 10kA with UL listed RK5 backup fuse or MCCB
Operating Temperature	-25°C to +70°C (-40F to 158°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Calibration Temperature	40°C (104°F)
Accessories	• Auxiliary switches • Cooling spacer • Touch protection caps • Shunt Trip • Neutral pole • Lockout adapter
Applications	• AC Motor Starting, Across the Line • AC General Use • AC Resistance • AC discharge lamps (ballast) • AC incandescent lamps (tungsten)

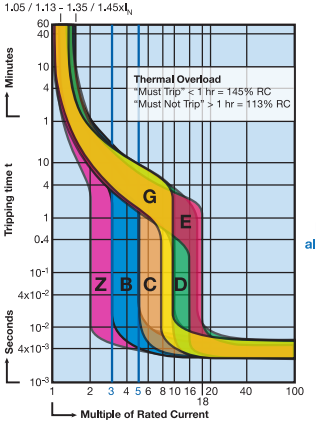
COMPETITORS

▶ **NO REAL COMPETITION**

Market offers large MCCB motor starter protectors which are only offered in 3 phase.



Siemens Motor Starter
$421.50



B, C, D, E, G & Z AC Trip Curves

For all trip curves visit altechcorp.com/breakers

Altech's competitive advantages

- Built-in dual terminal for bare wire/ferruled wire, spade and ring tongue lugs
- UL 489, UL 508 and UL 1077 series all in uniform design
- Industry unique UL 508 manual motor controller in supplementary protector design foot print

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UL 1077 Supplementary Protectors

DLS7 Series

- Thermal magnetic
- DIN Rail mountable
- 17.5 mm width per pole
- Available in 1, 2 & 3 poles (4 poles upon request)

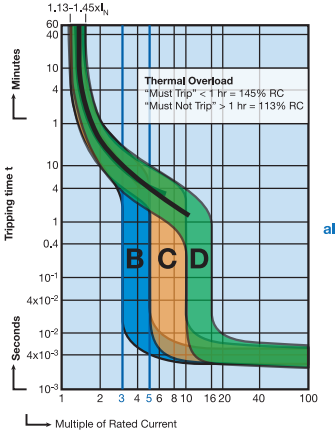


C UL US E137915 CE

Current/Voltage Rating	0.3-63A / 480Y / 277V AC
Trip Curve RC-Rated Current	B (3-5 times RC), C (5-10 times RC), D (10-16 times RC)
Short Circuit Withstanding Rating	0.3-60A(RC): 10kA with UL listed RK5 backup fuse or MCCB
Ambient Temperature	-25°C to +70°C (-40F to 158°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Calibration Temperature	30°C (86°F)
Electrical Life	6,000 switching cycles ON/OFF
Mechanical Life	10,000 switching cycles ON/OFF
Accessories	• Auxiliary Switches • Touch Protection Caps • Neutral Pole • Cooling Spacer • Shunt Trip • Lockout Adapter
Applications	• Sensitive Electronics • Power Supplies • Appliance Circuits

COMPETITORS

Manufacturer	Series
ABB	S200, S200P, S200PR
Allen Bradley	1492-SP, 1492-SPM
Eaton	FAZ-SP, WMTS
GE	EP60UL, EP100UL
Schneider	C60UL 1077



B, C, & D AC Trip Curves

For all trip curves visit altechcorp.com/breakers

Trip Curve Selection Guide

UL489 UL508 UL1077

Trip-Characteristics	Applications											
Characteristic Trip Boundaries	Lighting Wiring Protection Control Circuits	Business Equipment Appliances	Transformers	Power Supplies Heaters	Motors: General	Motors: Low Inrush	Motors: High Inrush	Motors: High Efficiency	General Electronics	Solenoid	Semi-conductors Components devices with low surge-current and short circuit withstand capabilities	Reactive Load
B-Characteristics	■	■							■			
C-Characteristics	■	■				■						
D-Characteristics			■	■			■					■
E-Characteristics			■	■				■				
G-Characteristics	■		■		■	■				■		
Z-Characteristics									■		■	

Part Number Builder

UL489 2 (No. Poles 1, 2, or 3) C (Trip Curves C or D) 15 (AMP) UL (Series)

- UL - standard UL489, AC
- DL - standard UL489, DC
- PL - standard UL489, AC with LOCK OUT
- HL - standard UL489 DC with LOCK OUT

Example: 2C15UL, 2C15DL, 2C15PL, 2C15HL

UL508 2 (No. Poles 1, 2, or 3) C (Trip Curves B, C, D, E, G or Z) 15 (AMP) UM (Series)

Example: 2C15UM

UL1077 2 (No. Poles 1, 2, or 3) C (Trip Curves B, C or D) 15 (AMP) UR (Series)

Example: 2C15UR

DLS9 (AC, DC), DLS8, DLS7



1 Hinged terminal cover design allows easy access to terminal screws with a broad range of screwdrivers

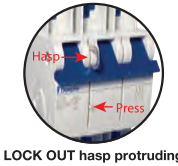
2 Individual Part Number is shown on each circuit breaker and is legible when installed in the panel.

3 DIN Clip can be released when necessary.

4 Flexible replaceable terminal barriers reduce the possibility of breakage if accidentally dropped

Now Available

LOCK OUT Feature Available



LOCK OUT hasp protruding



Shown with lock installed
Lock not included

Altech® Miniature Circuit Breakers AT A GLANCE

Order Catalog PN- 345