

CIRCUIT BREAKERS



Springer Controls carries a complete line of Techna Miniature Circuit Breakers rated from 0.5 amps through 63.0 amps. Applications include usage in UL508A panels, motor group installations, motor disconnects or whenever a circuit breaker is required in power or control circuitry.

CIRCUIT BREAKERS

Jtec UL (Motor Disconnect)

General Information L2

Trip Curves & Dimensions L3

Jtec 489 (Branch Circuit Protection)

General Information L4

Trip Curves & Dimensions L5

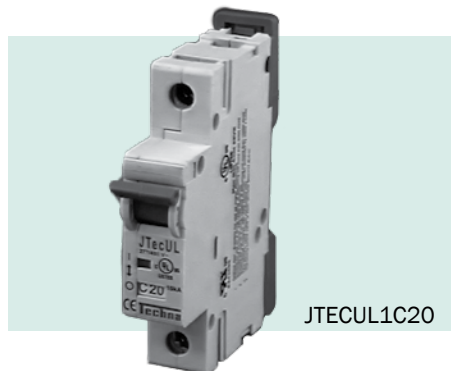
Accessories L6

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JtecUL MOTOR DISCONNECT

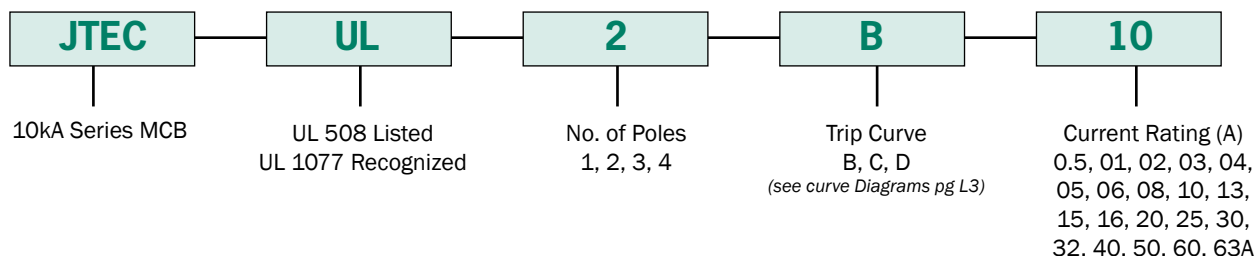
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JtecUL - General Information



- 0.5 amp through 63.0 amps
- Rated as a manual motor controller switch suitable for motor disconnect. Separate switch not required.
- UL 1077 recognized, UL 508 listed
- 10kA, 480Y / 277 VAC
- 1,2,3,4 Poles

JtecUL Nomenclature



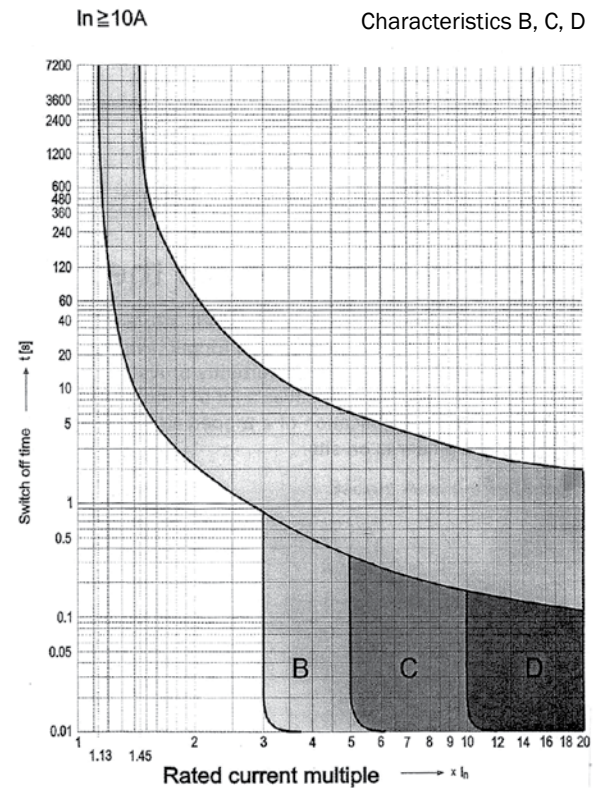
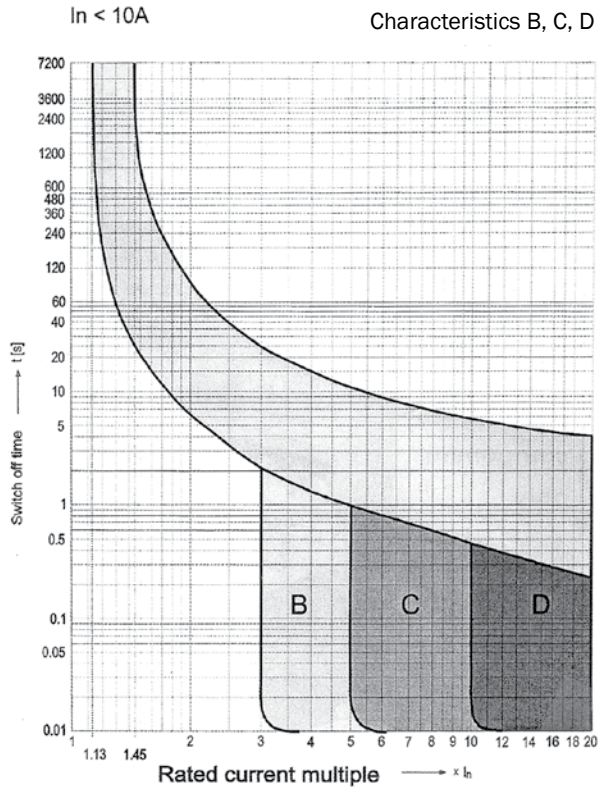
JtecUL Part # and Pricing

		Model No.	0.5 - 32amp Price	40 - 63amp Price
1-Pole	Curve B	JTECUL1B*	\$18.00	\$20.00
	Curve C	JTECUL1C*	\$18.00	\$20.00
	Curve D	JTECUL1D*	\$21.00	\$22.00
2-Pole	Curve B	JTECUL2B*	\$42.00	\$46.00
	Curve C	JTECUL2C*	\$42.00	\$46.00
	Curve D	JTECUL2D*	\$46.00	\$52.00
3-Pole	Curve B	JTECUL3B*	\$67.00	\$72.00
	Curve C	JTECUL3C*	\$67.00	\$72.00
	Curve D	JTECUL3D*	\$74.00	\$78.00
4-Pole	Curve B	JTECUL4B*	\$147.00	\$147.00
	Curve C	JTECUL4C*	\$147.00	\$147.00
	Curve D	JTECUL4D*	\$147.00	\$147.00

* Amps.= 0.5, 1, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, 25, 30, 32, 40, 50, 60, 63A
(see curve diagram on page L3 for selection)

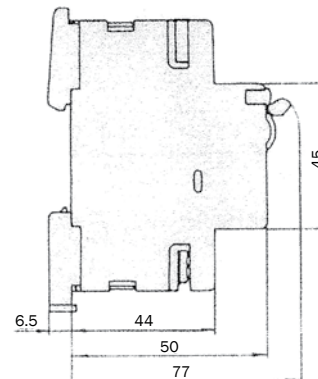
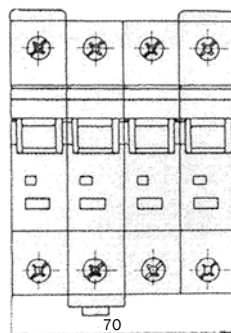
Discount Schedule SC-45

JtecUL Trip Curves



B= Shorter Trip, C= Medium Trip, D= Longer Trip

JtecUL Dimensions (mm)



JTEC 489; BRANCH CIRCUIT PROTECTION

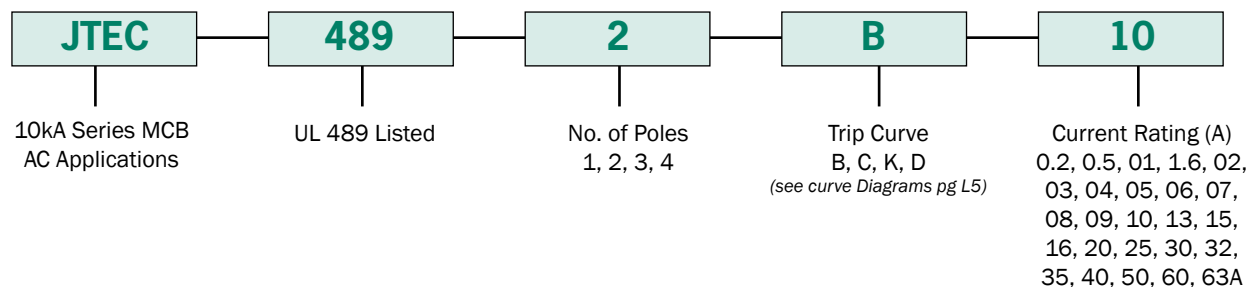
Jtec 489 - General Information



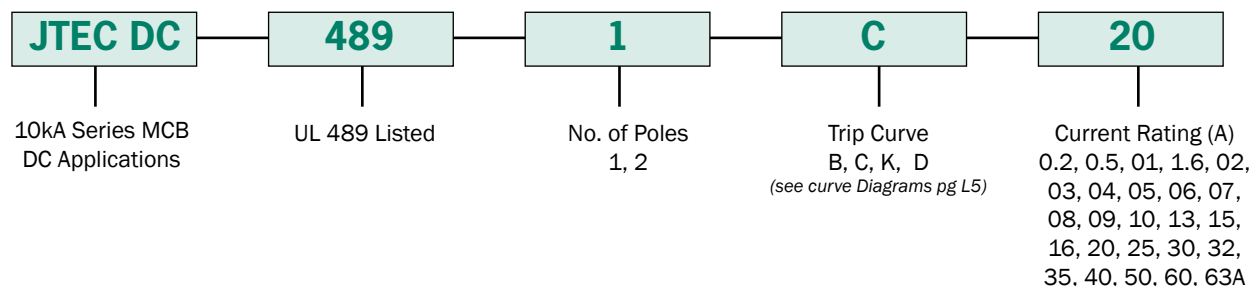
- 0.2 amp through 63.0 amps
- Rated as a branch circuit breaker able to be used to protect a branch circuit without a backup device.
- UL 489 listed
- 10kA, 480Y/277 VAC (up to 32 amps); 240 VAC (33 to 63 amps)
10kA, 125 VDC 1 pole; 250VDC 2 poles
- 1,2,3,4 Poles (AC); 1, 2 Poles (DC)

JTEC 489 Nomenclature

Ordering Code - AC



Ordering Code - DC



* special current ratings available on request

Jtec 489 Part # and Pricing

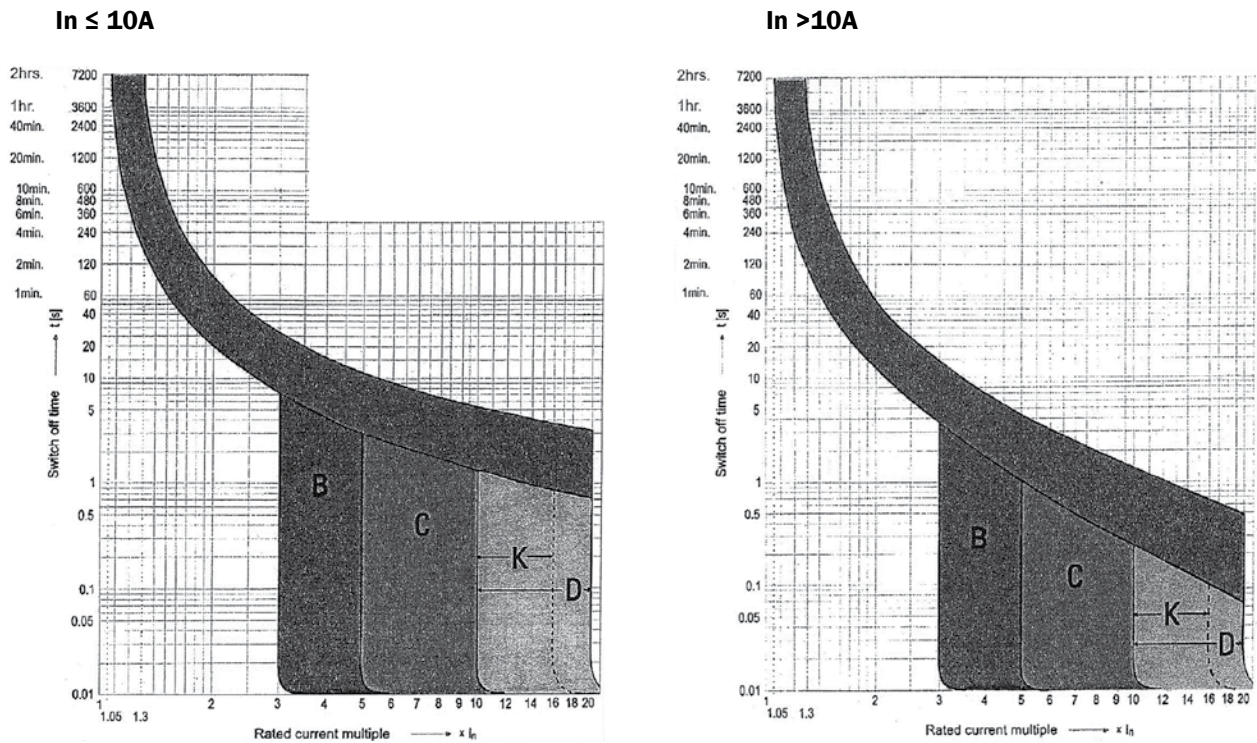
		Model No.	0.5 - 32amp Price	40 - 63amp Price
1-Pole	Curve B, C, K, D	JTEC489-1#*	\$41.00	\$45.00
2-Pole	Curve B, C, K, D	JTEC489-2#*	\$82.00	\$93.00
3-Pole	Curve B, C, K, D	JTEC489-3#*	\$122.00	\$134.00
4-Pole	Curve B, C, K, D	JTEC489-4#*	\$204.00	\$225.00

- Curve = **B** - Quick, **C** - Medium, **K** - Motor, **D** - Long

* Amps. = 0.2, 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, 25, 30, 32, 40, 50, 60, 63A
(see curve diagram on page L5)

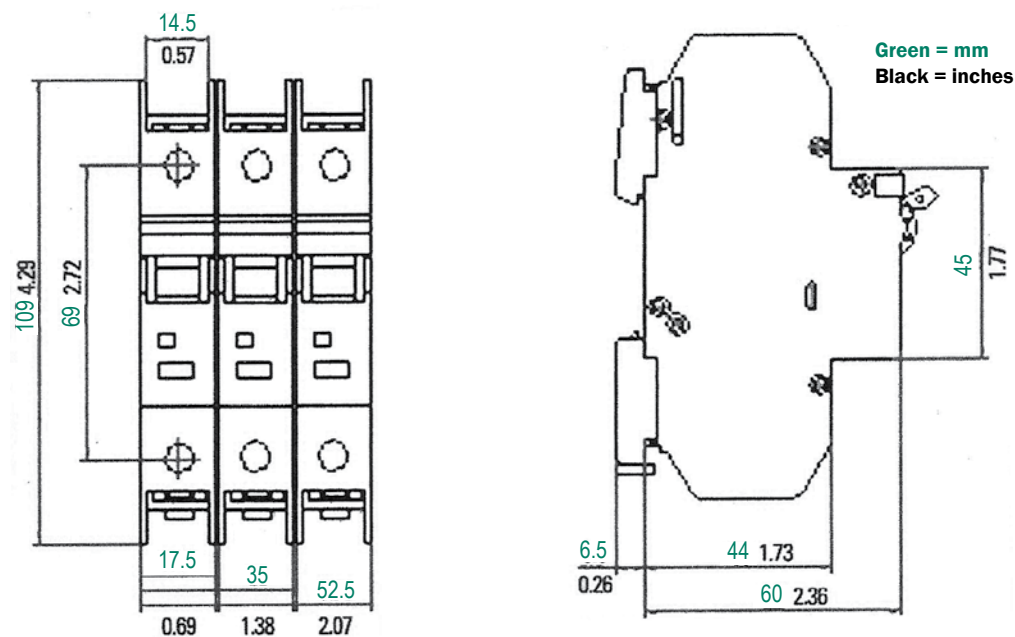
Discount Schedule SC-45

Jtec 489 Trip Curves

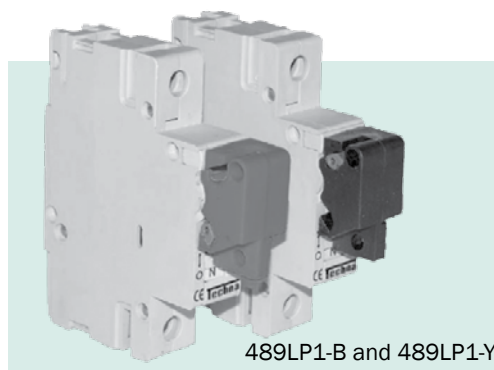
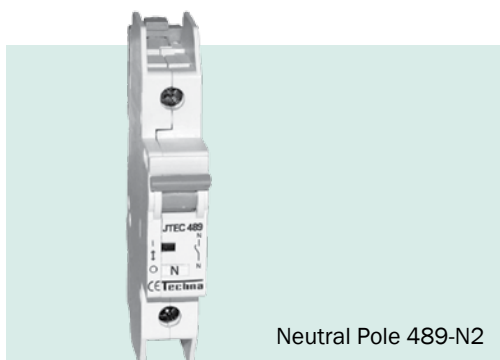


B= Short Trip, C= Medium Trip, K= Motor Trip, D= Longer Trip

Jtec 489 Dimensions



Accessories for JtecUL and Jtec 489



Description	JTEC UL Catalog No.	Price	JTEC 489 Catalog No.	Price
Auxiliary & Single Contacts:				
1 Changeover	JTECULAUX1CO	\$40.00	JTEC489AUX1CO	\$40.00
2 Changeover	JTECULAUX2CO	\$46.00	JTEC489AUX2CO	\$46.00
1 Changeover + 1 Signal Changeover	JTECULAUXSCO	\$48.00	JTEC489AUXSCO	\$48.00
1 Changeover + 1 Signal + Test Button	JTECULAUXSTCO	\$48.00	JTEC489AUXSTCO	\$48.00
Neutral Pole	JTECN2	\$36.00	JTECN2	\$36.00

Shunt - Trip - Release

12V - AC	JTECULST12AC	\$60.00	JTEC489ST12AC	\$60.00
24V - AC	JTECULST24AC	\$60.00	JTEC489ST24AC	\$60.00
48V - AC	JTECULST48AC	\$60.00	JTEC489ST48AC	\$60.00
60V - AC	JTECULST60AC	\$60.00	JTEC489ST60AC	\$60.00
110V - AC	JTECULST110AC	\$60.00	JTEC489ST110AC	\$60.00
120V - AC	JTECULST120AC	\$60.00	JTEC489ST120AC	\$60.00
230V - AC	JTECULST230AC	\$60.00	JTEC489ST230AC	\$60.00
277V - AC	JTECULST277AC	\$60.00	JTEC489ST277AC	\$60.00
400V - AC	JTECULST400AC	\$60.00	JTEC489ST400AC	\$60.00
12V - DC	JTECULST12DC	\$60.00	JTEC489ST12DC	\$60.00
24V - DC	JTECULST24DC	\$60.00	JTEC489ST24DC	\$60.00
48V - DC	JTECULST48DC	\$60.00	JTEC489ST48DC	\$60.00
110V - DC	JTECULST110DC	\$60.00	JTEC489ST110DC	\$60.00

(Consult factory for under voltage release)

Discount Schedule SC-45

Technical Data for JTECUL and JTEC489

	Jtec UL		Jtec 489	
Current Ratings (A)	0.5, 1, 2, 3, 4, 6, 8, 10, 13, 16, 20, 25, 32, 40, 50, 60, 63A		0.2, 0.5, 1.0, 1.6, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 20, 25, 30, 32, 35, 40, 50, 60, 63A	
Number of Poles	1, 2, 3, 4, I+N, 3+N		1, 2, 3, 4, I+N, 3+N	
Trip Curves	B, C, D		B, C, K, D	
Rated Voltage	230/400V AC 277/480V AC 600V AC	(EN60898) (UL1077/508) (UL1077/508)	230/400V AC 480Y/277V AC 240V AC	(EN60898) (UL489, up to 32A) (UL489, up to 63A)
Rated Frequency	50/60 Hz		50/60 Hz	
Short Circuit Capacity	10kA		10kA	
UL Interrupt Rating	5kA (No back-up) 10kA (With back-up fuse)		10kA	
Electrical Life	6000 cycles on/off		6000 cycles on/off	
Mechanical Life	100,000 cycles on/off		100,000 cycles on/off	
Protection Degree	IP20 at Front		IP20 at Front	
Ambient Temp. Range	-13°F - 140°F		-13°F - 140°F	
Operational Position	In any Plane		In any Plane	
Compliance Standards	UL1077 / UL508 EN60898		UL489 / UL489A EN60898 / EN60947-2	
Vibration Resistance	3g (8 - 50 Hz)		3g (8 - 50 Hz)	
Resistance to Thermal Shocks	284°F		284°F	
Tighting Torque	(min) (max)	13 lb/inch 17.5 lb/inch	13 lb/inch 17.5 lb/inch	

