

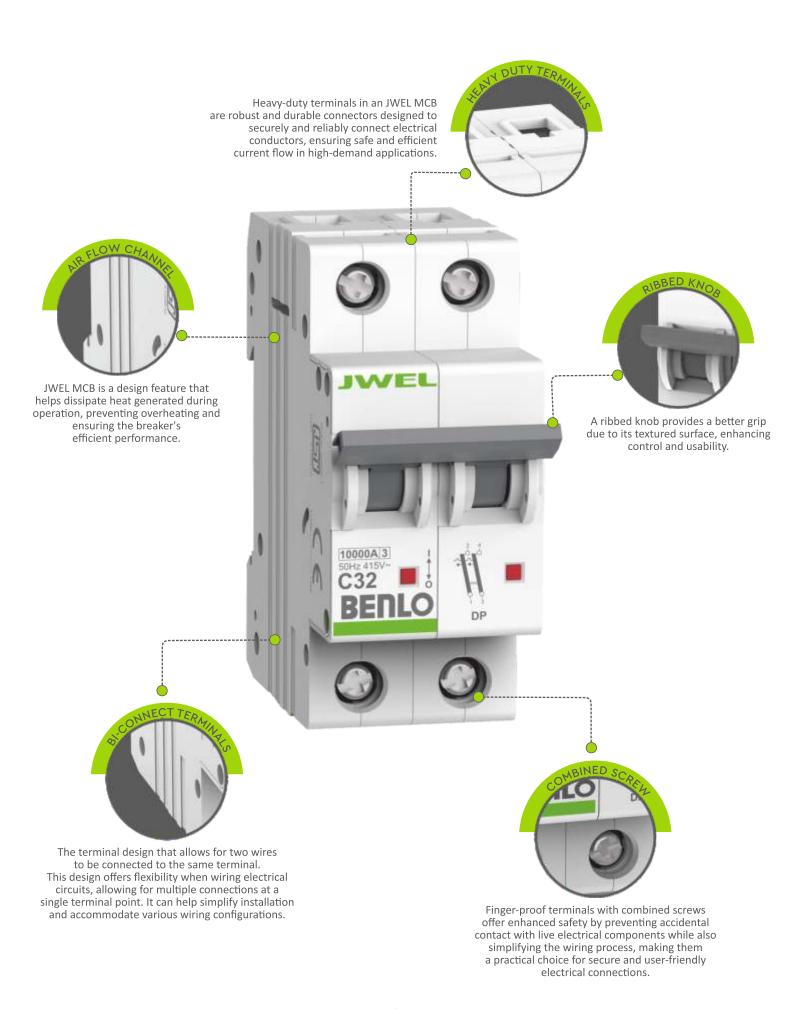
REDEFINING SAFETY IN

ELECTRICAL DISTRIBUTION







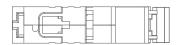


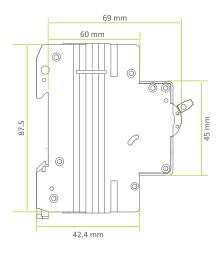


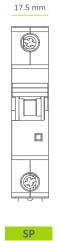
TECHNICAL SPECIFICATIONS

Numbers of Poles	SP	SPN	DP	TP	TPN	FP
Rated Voltages	For SP & SPN			240 V AC		
	For DP, TP, TPN, FP			415 V AC		
Standard	IS / IEC : 60898 (Part 1) : 2015					
Rated Current	0.5 A to 63 A					
Rated Frequency	50 Hz					
Rated Short Circuit Capacity (Icn)	10000 A					
Rated Service Short Circuit Capacity (Ics)	7500 A					
Tripping Curve	B ,C & D - Type					
Impulse withstand voltage (U _{imp})	4.7/5.8 k VP					
Electro mechanical Endurance	> 4000 cycle					
Terminals	Screw Type					
Terminal Capacity	Up to 35 mm²					
Installation	On symmetrical 35 mm DIN rail					
Fastening torque	2.0 Nm					

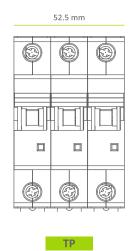
ISOMETRIC VIEW OF MCB

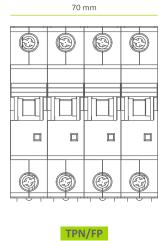








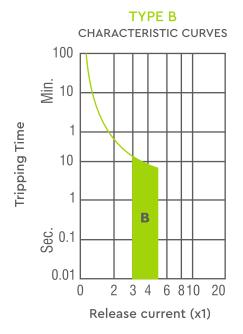


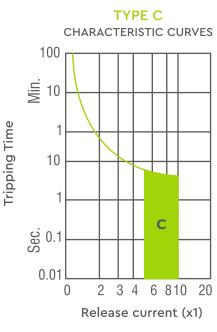


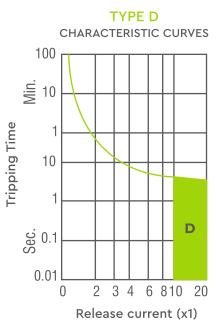


MCB CHARACTERISTICS CURVE

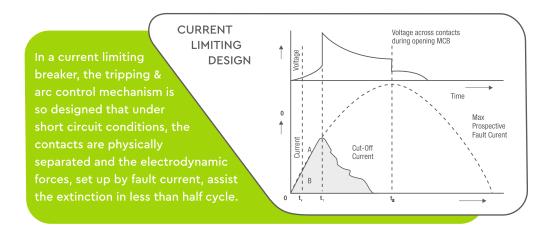
The essential distinction between Type B, C or D devices is based on their ability to handle surge currents without tripping. These are, typically, inrush currents associated with fluorescent and other forms of discharge lighting, induction motors, battery charging equipment etc.





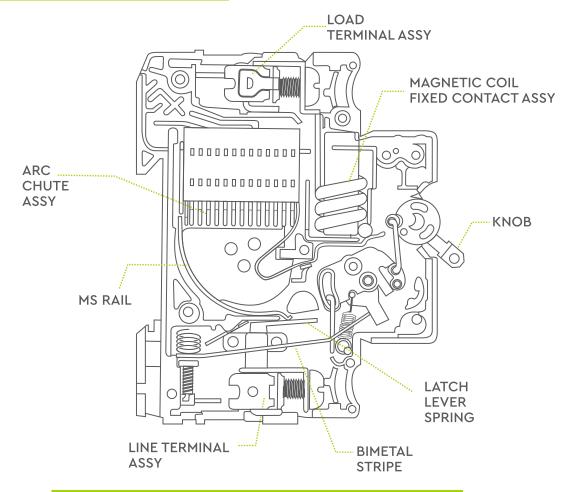


As Per	The	Thermal Tripping			Magnetic tripping			
	No Tripping	Tripping	Time	Hold	Trip	Time		
IS/IEC	Current	Current	Limits	Current	Current	Limits		
60898-	L1	L2	Т	L4	L5	Т		
B Curve	1.13xln		≥lh	3xln		≥0.1 s		
		1.45xln	<lh< td=""><td></td><td>5xln</td><td><0.1 s</td></lh<>		5xln	<0.1 s		
C Curve	1.13xln		≥lh	5xln		≥0.1 s		
		1.45xln	<lh< td=""><td></td><td>10xln</td><td><0.1 s</td></lh<>		10xln	<0.1 s		
D Curve	1.13xln		≥lh	10xln		≥0.1 s		
		1.45xln	<lh< td=""><td></td><td>20xln</td><td><0.1 s</td></lh<>		20xln	<0.1 s		





COMPONENTS OF MCB



MCB SELECTION CHART FOR HOUSEHOLD APPLICATION

*T-Tonnes | *W-Watts | *A-Amperes

Appliances	Capacity/Watt(Load) (240V AC 1ph)	Current Rating of MCB	Types of MCB
=	1.0 T 1.5 T 2.0 T 10 A 16 A 20 A		C Series
[%] <u>\@</u>	4500 W 1750 W	20 A 10 A	B Series
	7500 W 2000 W	6 A 10 A	B Series B Series
	1000 W 2000 W 1000 W 1300 W	6 A 10 A 6 A 10 A	
	1000 W 2000 W	6 A 10 A	C Series C Series
00	1000 W 2000 W	6 A 10 A	B Series
	3000 W 6000 W	16 A 32 A	B Series
	750 W 1250 W	6 A 6 A	B Series
	1200 W 1500 W	6 A 10 A	B Series



MCB - Common use case



Miniature Circuit Breakers (MCBs) have several applications in day-to-day life, primarily in electrical circuit protection and safety. Here are some common applications of MCBs:















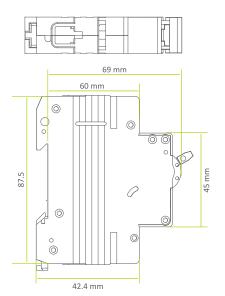


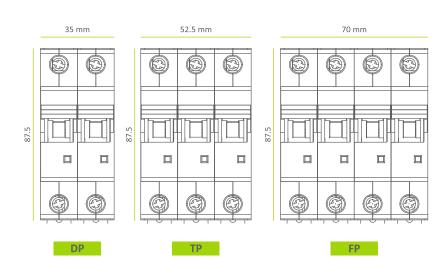
ISOLATOR

25 A ----- 32 A ----- 40 A ----- 63 A ----- 100 A

TECHNICAL SPECIFICATION OF JWEL ISOLATOR

DIMENSION OF JWEL ISOLATOR







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