



# FUSION SERIES

Circuit Protection  
4.5kA, 6kA & 10kA MCB

Data Specification **2023**



**AUSTRALIA WIDE DELIVERY**  
Expedited delivery to all states in Australia



**SAME DAY DISPATCH**  
Orders prior to 12PM will be dispatched the same day



**5 YEAR WARRANTY**  
You can get a trusted 5 Year In House Warranty with CSG

## [ DESCRIPTION ]

## 4.5kA SERIES

The FUSION Series range of circuit protection has been designed to comply with AS/NZS 60898.1, AS/NZS 60947.2 and are made from the highest grade components to ensure reliability in all applications where protection against overload and short circuit is required. Available in various breaking capacities, these breakers are the perfect choice for a wide variety of applications. Available in 1 to 3 pole, 4.5kA, 6kA and 10kA, 6A to 63A, C and D curves.

## [ FEATURES ]

- 18mm Width per Pole
- ON/OFF Indicators
- 35mm DIN Rail Mounting
- Available in C Curve Only
- Lockable Toggle
- Combination Head Screws
- Pin/Fork type Busbar Terminal Connection

## [ TECHNICAL PARAMETERS ]

- Rated Voltage: 240V AC, 415V AC
- Rated Frequency: 50/60Hz
- Rated Current: 4500A
- Cable Termination: 25mm<sup>2</sup>
- Torque of Screw: 2.5Nm
- Complies with:  
AS/NZS 60898.1:2004

## [ APPROVALS ]

Energy Safe Victoria

## [ IMAGES ]



MCB1410C



MCB2410C



MCB3410C

# FUSION

## [ DESCRIPTION ]

## 6kA SERIES

The FUSION Series range of circuit protection has been designed to comply with AS/NZS 60898.1, AS/NZS 60947.2 and are made from the highest grade components to ensure reliability in all applications where protection against overload and short circuit is required. Available in various breaking capacities, these breakers are the perfect choice for a wide variety of applications. Available in 1 to 3 pole, 4.5kA, 6kA and 10kA, 6A to 63A, B, C and D curves.

## [ FEATURES ]

- 18mm Width per Pole
- ON/OFF Indicators
- 35mm DIN Rail Mounting
- Available in B, C and D Curve
- Lockable Toggle
- Combination Head Screws
- Pin/Fork Type Busbar Terminal Connection

## [ TECHNICAL PARAMETERS ]

- Rated Voltage: 240V AC, 415V AC
- Rated Frequency: 50/60Hz
- Rated Current: 6000A
- Cable Termination: 25mm<sup>2</sup>
- Torque of Screw: 2.5Nm
- Complies with:  
AS/NZS 60898.1:2004

## [ APPROVALS ]

Energy Safe Victoria

## [ IMAGES ]



MCB1610C



MCB2610D



MCB3620B

# FUSION

## [ DESCRIPTION ]

## 18mm 10kA SERIES

The FUSION Series range of circuit protection has been designed to comply with AS/NZS 60898.1, AS/NZS 60947.2 and are made from the highest grade components to ensure reliability in all applications where protection against overload and short circuit is required. Available in various breaking capacities, these breakers are the perfect choice for a wide variety of applications. Available in 1 to 3 pole, 4.5kA, 6kA and 10kA, 6A to 63A, C and D curves.

## [ FEATURES ]

- 18mm Width per Pole
- ON/OFF Indicators
- 35mm DIN Rail Mounting
- Available in C and D Curve
- Lockable Toggle
- Combination Head Screws
- Pin/Fork type Busbar Terminal Connection

## [ TECHNICAL PARAMETERS ]

- Rated Voltage: 240V AC, 415V AC
- Rated Frequency: 50/60Hz
- Rated Current: 10000A
- Cable Termination: 25mm<sup>2</sup>
- Torque of Screw: 2.5Nm
- Complies with:  
AS/NZS 60898.1:2004

## [ APPROVALS ]

Energy Safe Victoria

## [ IMAGES ]



MCB11010C



MCB31010D

## [ DESCRIPTION ]

## 27mm 10kA SERIES

The FUSION 10kA Series range of circuit protection has been designed to comply with AS/NZS 60947.2 and are made from the highest grade components to ensure reliability in all applications where protection against overload and short circuit is required. Available in various breaking capacities, these breakers are the perfect choice for a wide variety of applications. Available in 1 to 3 pole, 80A to 125A, C and D curves.

## [ FEATURES ]

- 27mm Width per Pole
- High Short Circuit Capacity
- ON/OFF Indicators
- 35mm DIN Rail Mounting
- Available in C and D Curve
- Lockable Toggle
- Combination Head Screws

## [ TECHNICAL PARAMETERS ]

- Rated Voltage: 240V AC, 415V AC
- Rated Frequency: 50/60Hz
- Rated Current: 10000A
- Cable Termination: 35mm<sup>2</sup>
- Torque of Screw: 2.5Nm
- Complies with:  
AS/NZS 60947.2

## [ APPROVALS ]

Energy Safe Victoria

## [ IMAGES ]



MCB110100C



MCB21080C



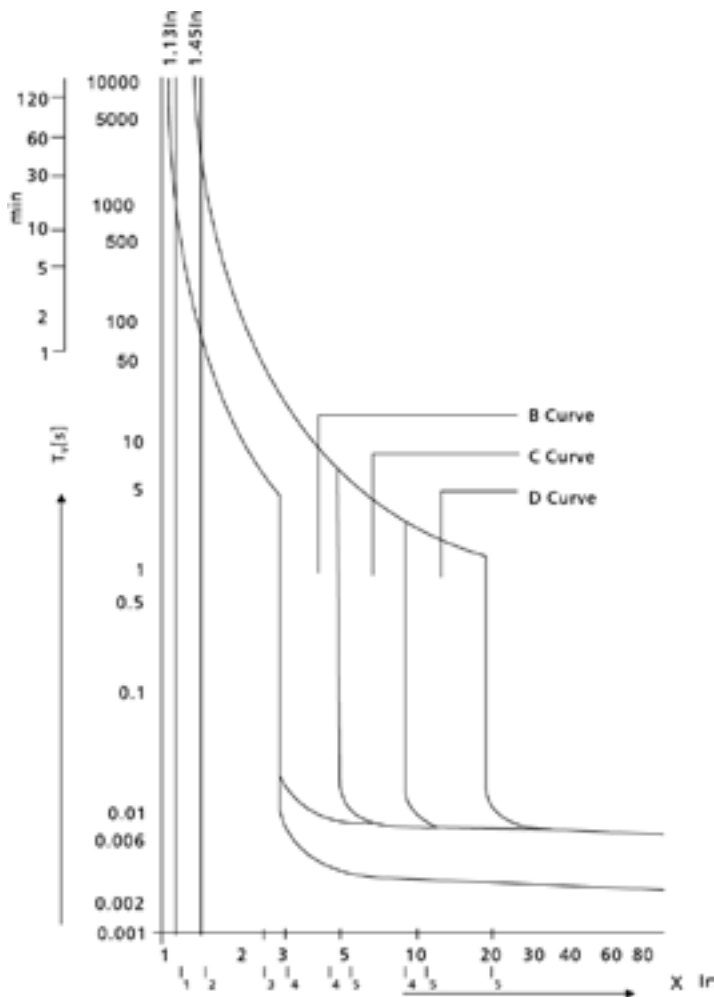
MCB310125D

# FUSION

Thermal Tripping				Magnetic Tripping		
As per IEC60898	No Tripping Current	Tripping Current ( $I_2$ )	Time Limits (t)	Hold Current ( $I_4$ )	Trip Current ( $I_5$ )	Time Limits (t)
B Curve	$1.13 \times I_N$	$1.45 \times I_N$	$\geq 1h$ $< 1h$	$3 \times I_N$	$5 \times I_N$	$\geq 0.1s$ $< 0.1s$
C Curve	$1.13 \times I_N$	$1.45 \times I_N$	$\geq 1h$ $< 1h$	$5 \times I_N$	$10 \times I_N$	$\geq 0.1s$ $< 0.1s$
D Curve	$1.13 \times I_N$	$1.45 \times I_N$	$\geq 1h$ $< 1h$	$10 \times I_N$	$20 \times I_N$	$\geq 0.1s$ $< 0.1s$

$I_3 = 2.55 \times I_N$                        $1s < t < 60s$  for  $I_N \leq 32A$   
 $1s < t < 120s$  for  $I_N > 32A$

[ CHARACTERISTICS CURVES ]



## [ TRIPPING CHARACTERISTICS ]

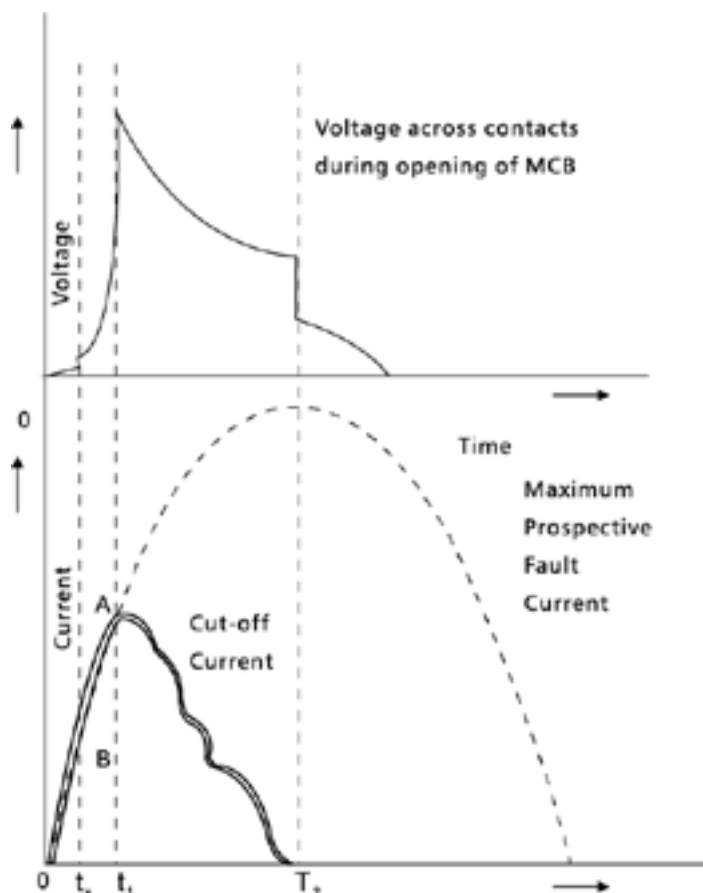
Based on the Tripping Characteristics, MCBs are available in “B”, “C” and “D” curve to suit different applications.

“B” Curve - for protection of electrical circuits with equipment that does not cause surge current (lighting and distribution circuits). Short circuit release is set to  $(3-5)I_n$ .

“C” Curve - for protection of electrical circuits with equipment that causes surge current (inductive loads and motor circuit) Short circuit release is set to  $(5-10)I_n$ .

“D” Curve - for protection of electrical circuits which cause high inrush current, typically 12-15 times the thermal rated current (transformers, x-ray machines etc). Short circuit release is set to  $(10-20)I_n$ .

## [ CURRENT LIMITING DESIGN ]



# [ SPECIFICATIONS ]

## 4.5kA SERIES

Product Code	Pole	Width Per Pole	kA Rating	Amperage (A)	Voltage (V)	Curve
MCB146C	1	18mm	4.5KA	6A	240V AC	C Curve
MCB1410C		18mm		10A		
MCB1416C		18mm		16A		
MCB1420C		18mm		20A		
MCB1425C		18mm		25A		
MCB1432C		18mm		32A		
MCB1440C		18mm		40A		
MCB1450C		18mm		50A		
MCB1463C		18mm		63A		
MCB246C		2		18mm		
MCB2410C	18mm			10A		
MCB2416C	18mm			16A		
MCB2420C	18mm			20A		
MCB2425C	18mm			25A		
MCB2432C	18mm			32A		
MCB2440C	18mm			40A		
MCB2450C	18mm			50A		
MCB2463C	18mm			63A		
MCB346C	3			18mm	6A	
MCB3410C		18mm		10A		
MCB3416C		18mm		16A		
MCB3420C		18mm		20A		
MCB3425C		18mm		25A		
MCB3432C		18mm		32A		
MCB3440C		18mm		40A		
MCB3450C		18mm		50A		
MCB3463C		18mm		63A		



# [ SPECIFICATIONS ]

# 6kA SERIES

Product Code	Pole	Width Per Pole	kA Rating	Amperage (A)	Volatge (V)	Curve			
MCB166C	1	18mm	6kA	6A	240V AC	C Curve			
MCB1610C		18mm		10A					
MCB1616C		18mm		16A					
MCB1620C		18mm		20A					
MCB1625C		18mm		25A					
MCB1632C		18mm		32A					
MCB1640C		18mm		40A					
MCB1650C		18mm		50A					
MCB1663C		18mm		63A					
MCB166D		18mm		6A			D Curve		
MCB1610D		18mm		10A					
MCB1616D		18mm		16A					
MCB1620D		18mm		20A					
MCB1625D		18mm		25A					
MCB1632D		18mm		32A					
MCB1640D		18mm		40A					
MCB1650D		18mm		50A					
MCB1663D		18mm		63A					
MCB266C		2		18mm		6kA		6A	240V AC
MCB2610C				18mm			10A		
MCB2616C	18mm		16A						
MCB2620C	18mm		20A						
MCB2625C	18mm		25A						
MCB2632C	18mm		32A						
MCB2640C	18mm		40A						
MCB2650C	18mm		50A						
MCB2663C	18mm		63A						
MCB266D	18mm		6A	D Curve					
MCB2610D	18mm		10A						
MCB2616D	18mm		16A						
MCB2620D	18mm		20A						
MCB2625D	18mm		25A						
MCB2632D	18mm		32A						
MCB2640D	18mm		40A						
MCB2650D	18mm		50A						
MCB2663D	18mm		63A						
MCB3620B	3		18mm		6kA		20A	415V AC	
MCB3625B			18mm	25A					
MCB3632B		18mm	32A						
MCB3640B		18mm	40A						
MCB3650B		18mm	50A						
MCB3663B		18mm	63A						

# [ SPECIFICATIONS ]

## 6kA SERIES

Product Code	Pole	Width Per Pole	kA Rating	Amperage (A)	Voltage (V)	Curve
MCB366C	3	18mm	6kA	6A	415V AC	C Curve
MCB3610C		18mm		10A		
MCB3616C		18mm		16A		
MCB3620C		18mm		20A		
MCB3625C		18mm		25A		
MCB3632C		18mm		32A		
MCB3640C		18mm		40A		
MCB3650C		18mm		50A		
MCB3663C		18mm		63A		
MCB366D		3		18mm		
MCB3610D	18mm		10A			
MCB3616D	18mm		16A			
MCB3620D	18mm		20A			
MCB3625D	18mm		25A			
MCB3632D	18mm		32A			
MCB3640D	18mm		40A			
MCB3650D	18mm		50A			
MCB3663D	18mm		63A			

# [ SPECIFICATIONS ]

# 10kA SERIES

Product Code	Pole	Width Per Pole	kA Rating	Amperage (A)	Voltage (V)	Curve
MCB1106C	1	18mm	10kA	6A	240V AC	C Curve
MCB11010C		18mm		10A		
MCB11016C		18mm		16A		
MCB11020C		18mm		20A		
MCB11025C		18mm		25A		
MCB11032C		18mm		32A		
MCB11040C		18mm		40A		
MCB11050C		18mm		50A		
MCB11063C		18mm		63A		
MCB1106D		18mm		6A		
MCB11010D		18mm		10A		
MCB11016D		18mm		16A		
MCB11020D		18mm		20A		
MCB11025D		18mm		25A		
MCB11032D		18mm		32A		
MCB11040D		18mm		40A		
MCB11050D		18mm		50A		
MCB11063D		18mm		63A		
MCB11080C		27mm		80A		C Curve
MCB110100C		27mm		100A		
MCB110125C		27mm		125A		
MCB11080D		27mm		80A		D Curve
MCB110100D		27mm		100A		
MCB110125D		27mm		125A		

## [ SPECIFICATIONS ]

## 10kA SERIES

Product Code	Pole	Width Per Pole	kA Rating	Amperage (A)	Voltage (V)	Curve	
MCB21080C	2	27mm	10kA	80A	240V AC	C Curve	
MCB210100C		27mm		100A			
MCB210125C		27mm		125A			
MCB21080D		27mm		80A			
MCB210100D		27mm		100A			
MCB210125D		27mm		125A			
MCB3106C	3	18mm		10kA	6A	415V AC	C Curve
MCB31010C		18mm			10A		
MCB31016C		18mm			16A		
MCB31020C		18mm			20A		
MCB31025C		18mm			25A		
MCB31032C		18mm			32A		
MCB31040C		18mm			40A		
MCB31050C		18mm			50A		
MCB31063C		18mm			63A		
MCB3106D		18mm			6A		
MCB31010D		18mm			10A		
MCB31016D		18mm			16A		
MCB31020D		18mm			20A		
MCB31025D		18mm			25A		
MCB31032D		18mm			32A		
MCB31040D		18mm			40A		
MCB31050D		18mm			50A		
MCB31063D		18mm			63A		
MCB31080C		27mm	80A				
MCB310100C		27mm	100A				
MCB310125C		27mm	125A				
MCB31080D		27mm	80A				
MCB310100D		27mm	100A				
MCB310125D		27mm	125A				

## [ WARRANTY ]

Connected Switchgear FUSION series of product come with a trusted 5 Year In House Warranty. That means that you have peace of mind knowing that if a fault develops within a five year period, Connected Group Australia will cover the cost of replacing the product and it's installation.\*

\* See our website for full terms and conditions [www.connectedswitchgear.com.au](http://www.connectedswitchgear.com.au)

# FUSION