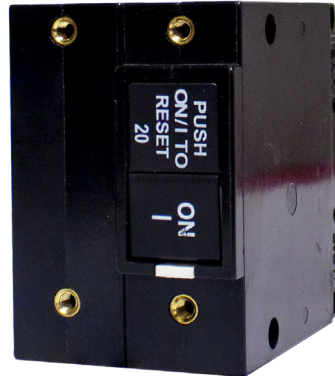


C-Frame MKV - Series Circuit Breakers



The C-Frame MKV is a Robust low profile circuit breaker designed specifically for higher breaking capacity and protection. It is capable of providing high levels of short circuit protection and is suitable for a variety of applications which requires high levels of power density.

The C-Frame MKV circuit breaker is used in power distribution units, lighting control and in a variety of other equipment. This product can be structured according to your preference and is available in 1 or 2 poles with a breaking capacity of 10 kA

Features

- AC circuit breaker
- Hydraulic-magnetic technology
- 100% rating capability independent of ambient temperature
- Up to two poles
- VDE, EAC and CCC approvals pending, CE certification pending
- Ratings 1 A to 20 A
- Precision tripping characteristics

Applications

- UPS equipment
- Mobile power generation equipment
- Alternative energy equipment
- Lighting control

Approvals

The C-Frame MKV listed to UL 489. (Pending)



Hydraulic-Magnetic Circuit Breakers 100% rated, unaffected by ambient temperature

C-Frame MKV - Series Circuit Breakers

Technical Data

Product Type	C-Frame MKV
Ambient Operating Temperature	-40 °C to +85 °C
Endurance	10 000 operations, 8500 without current, 1500 with current (IEC60947-2 Clause 8.3.3.4)* 10 000 operations, 6000 with current, 4000 without current (UL489 Clause 7.1.5)* As per UL489 or minimum of 1000 operations with current (UL489A Clause 12)*, 6000 operations with current (UL1077 Clause 22)*
Dielectric Strength	1000 - 2000 Vac for one minute (Clause 9.7)* 1000 Vac plus twice the rated voltage for one minute (UL489, Clause 7.1.9; UL489A Clause 8, UL1077 Clause 23)*
Weight	70 g per pole (unpacked)
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Flammability	I2 - No ignition at 850 °C with an oxygen index of ≥ 32
Toxicity	F1 - Smoke index of ≤ 20 which determines the fume class
Pollution Degree	PD2 - Normally only non-conductive pollution occurs. Temporary conductivity caused by condensation is to be expected.

* Refer to the standard for details

Product Type	Circuit Breaker
Approvals	UL 489 (Pending)
Number of Poles	1, 2
Maximum Voltages	240 Vac
Current Ratings	1 - 20 Aac
AIC	10 kA

Product Type	Circuit Breaker
Approvals	IEC60947-2 (Pending)
Number of Poles	1, 2
Maximum Voltages	240 Vac
Current Ratings	1 - 20 Aac
Ultimate S/C Breaking Capacity (Icu)	5 kA

Torque Table

Description	Size	Torque Value
Front Inserts	M3	0.5 - 0.8 Nm
	6 - 32	5 - 7 in/lbf
Rear Screws	M5	1.7 - 2.3 Nm
	10 - 32	15 - 20 in/lbf

C-Frame MKV - Series Circuit Breakers

Ordering Information

Group 1: Frame	Code	Description			Comments			
	C	C-Frame						
Group 2: Type	Code	Description			Comments			
	K	C-Frame MKV						
Group 3: Mounting	Code	Description			Comments			
	S	Front mount rectangular aperture flush rocker handle			Warning: maximum penetration depth into the mounting screw is 5.4 mm			
Group 4: Handle Type	Code	Description			Comments			
	H	Flush rocker handle			For mounting S only. Only 1 handle per unit. Reduced handle.			
	M	Flush rocker handle, two tone			For mounting S only. Only 1 handle per unit. Reduced handle.			
	Q	Flush rocker handle, push-to-reset for mounting version S						
	R	Flush rocker handle, push-to-reset, two tone for mounting version S						
	Y	No handle, for reduced handle versions			For reduced handle version, on poles(s) without handle			
Group 5: Termination	Code	Description			Comments			
	4X	Flush rear terminal						
Group 6: Number of Poles	Code	Description			Code	Description		
	1	1 pole metric			A	1 pole imperial		
	2	2 pole metric			B	2 pole imperial		
Group 7: Rated Voltage and Frequency - Main Circuit	Code	Description			Comments			
	J	240 Vac single pole			50 / 60 Hz			
	S	240 Vac multipole pole			50 / 60 Hz			
Group 8: Time Delay Characteristics (Curve Details); Pulse Tolerance at 10 ms	Code	Description	System	Pulse Tolerance (X In)	Code	Description	System	Pulse Tolerance (X In)
	AS	Medium delay 50 / 60 Hz	AC or DC	8 - 10	BS	Medium delay 50 / 60 Hz	AC or DC	8 - 10
	OP	Instantaneous trip 50 / 60 Hz	AC or DC	None	CS	Short delay 50 / 60 Hz	AC or DC	6 - 8
Group 9: Rated Current (Main Circuit) - Examples Only - Specific Amp Ratings Possible	Code	Description			Comments			
	0100	1 A			Examples only - specific Amp ratings possible from 1 A - 20 A			
	0500	5 A						
	1000	10 A						
	1500	15 A						
	2000	20 A						
Group 10: Circuit Configuration (Circuit Breaker's Internal Construction)	Code	Description			Comments			
	BX	Circuit breaker (Series trip, current coil in series)						
Group 11: Auxiliary and Alarm Switches (No approvals)	Code	Description			Comments			
	X	Not applicable						
Group 12: Voltage and Current Ratings for Dual Control, Shunt and Relay Trip Construction)	Code	Description			Comments			
	XX	Not applicable						
Group 13: Voltage and Current Ratings for Dual Control, Shunt and Relay Trip Construction	Code	Description			Comments			
	X	Not applicable						

C-Frame MKV - Series Circuit Breakers

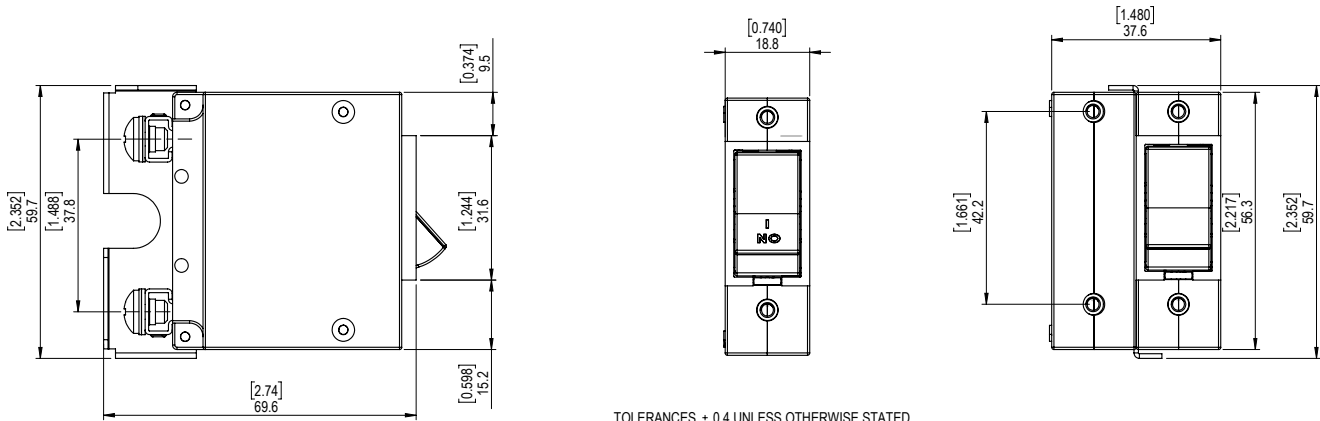
Ordering Information

Group 14: Future use	Code	Description	Comments
	X	Not applicable	
Group 15: Customer specific	Code	Description	Comments
	X	Not applicable	
	S	Customer specific	
Group 16: Handle Colour	Code	Description	Comments
	X	No handle	
	B	Black handle, white marking	Not applicable on the two tone version
	G	Green handle, white marking	
	W	White handle, black marking	
	R	Red handle, white marking	
	Y	Yellow handle, black marking	
Group 17: Handle Markings	Code	Description	Comments
	X	No handle	Not applicable
	I	Push to Reset and Amp rating	
	H	I - 0 and ON - OFF and Ampere rating	
Group 18: Mounting Orientation for Markings	Code	Description	Comments
	X	No handle	
	1	Vertical (reverse mounting, line @ bottom)	
	2	Horizontal (line @ right)	
	H	Horizontal (line @ left)	
	V	Vertical (standard mounting, line @ top)	
Group 19: Front Plate Marking and Test Button	Code	Description	Comments
	2	No marking, with test button, rocker handle	
	B	no marking, Rocker handle	
Group 20: Inter-phase Barrier	Code	Description	Comments
	X	Not applicable	
	C	Z inter-phase barrier	
Group 21: Approvals (Product Normally Approved to)	Code	Description	Comments
	2	UL489, IEC/EN 60947-2, CE, UKCA	(Pending Approvals)
Group 22: Safety Marks	Code	Description	Comments
	X	Not applicable	
	C	CCC/CRCC	(Pending Approvals)

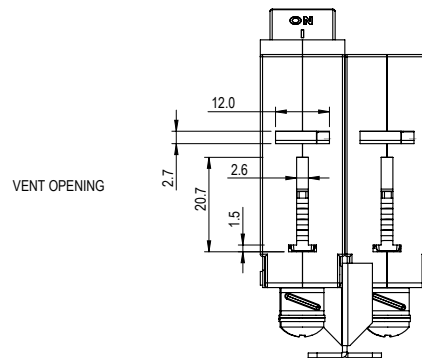
For options not listed, please contact CBI

C-Frame MKV - Series Circuit Breakers

Outline Dimensions: C-Frame MKV



TOLERANCES ± 0.4 UNLESS OTHERWISE STATED
(DIMENSIONS IN BRACKETS ARE IN INCHES)



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