







The C-Frame MKII is a traditional circuit breaker with a front mount profile.

Approvals

The C-Frame MKII carries various approvals such as VDE, cURus and is CE certified. It is also recognised to UL 1077 and listed to UL 489A.













Features

- AC and DC circuit breaker
- Hydraulic-magnetic technology
- 100% rating capability independent of ambient temperature
- Up to three poles
- VDE approved, CE certified
- UL compliant (Listed / recognised)
- Ratings 0.1 A to 30 A (Specific certifications)
- Precision tripping characteristics
- Wide range of circuits, mountings, terminations and time delays
- Optional auxiliary switch

Applications

- Telecom DC power distribution
- UPS equipment
- Mobile power generation equipment
- Power conditioning equipment
- Alternative energy equipment
- Lighting control

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



Technical Data

Product Type	C-Frame MKII			
Ambient Operating Temperature	-40 °C to +85 °C			
Endurance	10000 operations DC, 6000 operations AC (IEC 60934 Clause 9.11)* 6000 operations with current (UL1077 Clause 22)*			
Dielectric Strength	1000 - 2000 Vac for one minute (IEC 60934 Clause 9.7)*			
Weight	50 g per pole (unpacked)			
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.			
Shock	100 G to MIL-STD-202G, test method 213B, test condition 1			
Vibration	10 G to MIL-STD-202G test method 204D, test condition A			
Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28			
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.			
Accessories	Protective splash boot, mounting hardware 6 - 32, M3 Screws			

^{*} Refer to the standard for details

Product Type	Circuit Breaker	Circuit Breaker	Circuit Breaker	
Approvals	UL 489A	UL 1077	DIN / EN 60934, CE, UKCA	
Number of Poles	1	1 - 3	1 - 3	
Maximum Voltages	30 Vdc	240 Vac, 277 Vac, 65 Vdc	240 Vac, 65 Vdc	
Current Ratings	0.1 - 30 A	0.1 - 30 A (AC & DC)	0.1 - 30 A (AC & DC)	
Interrupting Capacity	5 kA	3 kA (AC), 1 kA (DC)	3 kA (AC), 1 kA (DC)	

Verify approvals for specific ratings in accordance with the relevant test certificates.

Torque Table

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



Ordering Information

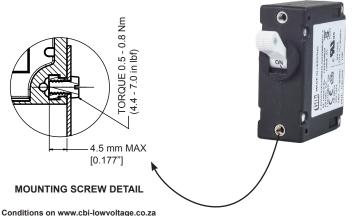
Group 1:	Code	Description			Comments				
Frame	С	C-Frame							
Group 2:	Code	Description			Comments				
Туре	Α	C-Frame MKII							
	Code	Description				Comments			
Group 3:	2	Front mount round aperture, fleet							
Mounting	3	Snap-in mount ed	dges bevelled	- without handle guards					
	В	Snap-in mount edges flush - without handle guards							
	Code		Description			Comments			
Group 4: Handle Type	Α	Standard (toggle) handle							
	С	Cut-off handle			Single pole only				
	Code	Description		Comments	Code	Description		Comments	
Group 5: Termination	22	Screw terminal, bus co (M5 or 10-32)	nnected	30 A max	52	Screw terminal 30° bent upturned ears, bus connected (M5 or 10-32)		30 A max	
	32	Screw terminal, upturn (M5 or 10-32)	ed ears	30 A max	СХ	Quick connect terminal (0.8 mm x 6.35 mm) 30 A m		30 A max	
	Code		Descripti	on	Code		Descriptio	n	
Group 6: Number of	1	1 1 pole metric		A	1 pole imperial				
Poles	2		2 pole me	tric	В	2 pole imperial			
	3		3 pole me	tric	С		3 pole imperial		
Group 7: Rated Voltage	Code		Descripti	on	Code	Description			
and Frequency	E		65 Vdc		K	277 V 50 / 60 Hz			
- Main	J		240 V 50 / 6		М	65 Vdc / 240 Vac			
	Code	Description	System	Pulse Tolerance (X In)	Code	Description	System	Pulse Tolerance (X In)	
	AD	Long delay 50 / 60 Hz AS & dual rated	AC and DC	8 - 10	BS	Medium delay 50 / 60 Hz	AC or DC	8 - 10	
Group 8:	BD	Medium delay 50 / 60 Hz BS & dual rated	AC and DC	8 - 10	CS	Short delay 50 / 60 Hz	AC or DC	6 - 8	
Time Delay Characteristics (Curve	CD	Short delay 50 / 60 Hz CS & dual rated	AC and DC	6 - 8	AW	Long delay 50 / 60 Hz AD & inertia delay	AC and DC	16 - 20	
Details); Pulse Tolerance at 10 ms	Al	Long delay 50 / 60 Hz AS & inertia delay	AC or DC	16 - 20	BW	Medium delay 50 / 60 Hz BD & inertia delay	AC and DC	16 - 20	
10 ms	ВІ	Medium delay 50 / 60 Hz BS & inertia delay	AC or DC	16 - 20	CW	Short delay 50 / 60 Hz CD & inertia delay	AC and DC	12 - 15	
	CI	Short delay 50 / 60 Hz CS & inertia delay	AC or DC	12 - 15	OP	Instantaneous trip 50 / 60 Hz	AC and DC	None	
	AS	Long delay 50 / 60 Hz	AC or DC	8 - 10					
Group 9: Rated Current	Code Description		Comments						
(Main Circuit) - Examples Only - Specific A Ratings Possible	0.1 A - 30 A			specific ampere ratings possible from 0.1 A - 30 A					
Group 10: Circuit	Code	de Description			Comments				
Configuration	вх	Series trip			Circuit breaker, current coil in series				
(Circuit Breaker's Internal Construction)	KX Series trip, with auxiliary switch								



Technical Data

	Code	Description	Comments						
Group 11: Auxiliary and Alarm Switches	Х	Not applicable							
	А	DB3-Gold Tips, Equally spaced terminals, 2.75 mm (EN61058 0.1 A @ 250 Vac & 0.1 A @ 80 Vdc and UL1054 0.1 A @ 125/250 Vac & 0.1 A @ 30 Vdc & 0.3 A @ 60 Vdc)							
	В	DB2-Silver Tips, Equally spaced terminals, 2.75 mm (EN61058 10 A @ 250 Vac & 0.1 A @ 80 Vdc and UL1054 10 A @ 125/250 Vac)							
Group	Code	Description	Comments						
12 - 15:	X	Not applicable							
Group 16:	Code	Description	Comments						
Handle Colour	В	Black handle, white marking							
Colour	W	White handle, black marking							
Group 17:	Code	Description	Comments						
Marking Handle	D	I - 0 and ON - OFF							
Group 18:	Code	Description	Comments						
Mounting Orientation for Marking	V	Vertical (standard mounting. line @ top)							
Group 19:	Code	Description	Comments						
Front Plate	В	No marking							
Group 20:	Code	Description	Comments						
Group 20:	-	Not applicable							
Group 21: Approvals (Product Normally Approved to)	Code	Description	Comments						
	1	UL 1077, UL 489A, CSA - (C22.2 No. 235), DIN / EN 60934, CE, UKCA							
Group 22:	Code	Description	Comments						
Safety Marks	×	Not applicable							

For options not listed, please contact CBI



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