C-Frame MKII - Series Circuit Breakers



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

Approvals

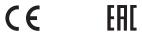
The C-Frame MKII carries various approvals such as VDE, cURus and is CE certified. It is also recognised to UL 1077 and listed to UL 489A.













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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

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C-Frame MKII - Series Circuit Breakers

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Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28			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 \leq 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		
Front Incorto	M3	0.5 - 0.8 Nm		
Front Inserts	6 - 32	5 - 7 in/lbf		
Beer Serence	M5	1.7 - 2.3 Nm		
Rear Screws	10 - 32	15 - 20 in/lbf		

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C-Frame MKII - Series Circuit Breakers

Ordering Information

Group 1:	Code			Comments					
Frame	С								
Group 2:	Code	Description				Comments			
Туре	A	C-Frame MKII							
	Code	Description				Comments			
Group 3:	2 Front mount round aperture, fleet		perture, fleet						
Mounting	3	Snap-in mount edges bevelled - without handle guards							
	В	Snap-in mount edges flush - without handle guards							
	Code	Description		Comments					
Group 4: Handle Type	А	Standard (toggle) handle							
	С	Cut-off handle			Single pole only				
	Code	Description		Comments	Code	Description		Comments	
Group 5: Termination	22	22 Screw terminal, bus connected (M5 or 10-32) 30 A max 52		Screw terminal 30° bent upturned ears, bus connected (M5 or 10-32) 30 /		30 A max			
	32	Screw terminal, upturned ears (M5 or 10-32)		30 A max	сх	Quick connect terminal (0.8 mm x 6.35 mm)		30 A max	
	Code	Description		Code		Descriptio	n		
Group 6: Number of	1	1 pole metric			A	1 pole imperial			
Poles	2		2 pole metric			2 pole imperial			
	3		3 pole met	tric	С		3 pole imper	ial	
Group 7:	Code		Descripti	on	Code	Description			
Rated Voltage and Frequency	E	65 Vdc			К	277 V 50 / 60 Hz			
- Main	J	240 V 50 / 60 Hz			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	AI	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	e 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:	Code	ode Description				Comments			
Circuit Configuration	BX		Series tri	p	Circuit breaker, current coil in series				
(Circuit Breaker's Internal Construction)	кх	Series trip, with auxiliary switch							

C-Frame MKII - Series Circuit Breakers

Technical Data

	Code	Description	Comments						
Group 11: Auxiliary	Х	Not applicable							
and Alarm Switches	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:	Х	Not applicable							
Group 16:	Code	Description	Comments						
Handle	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:	Code	Description	Comments						
Approvals (Product Normally Approved to)	1	UL 1077, UL 489A, CSA - (C22.2 No. 235), DIN / EN 60934, CE, UKCA							
Group 22:	Code	Description	Comments						
Safety Marks	Х	Not applicable							



For options not listed, please contact CBI

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