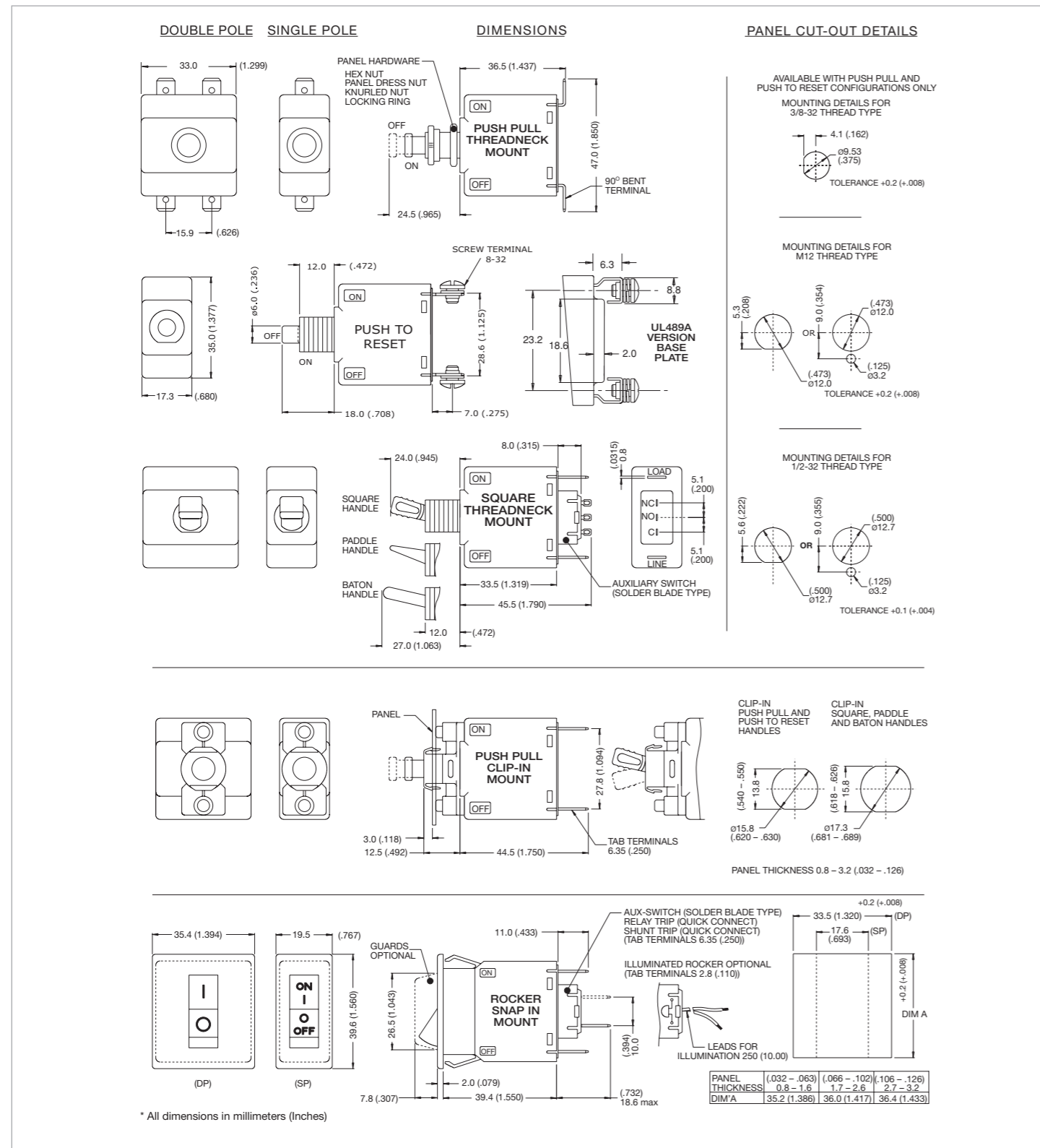


B-Frame Series Circuit Breakers



B-Frame Series Circuit Breakers



Features

- UL 489A and ULI 077 Approvals
- CSA and VDE Approved
- Wide Range of Standard Time Delays, Operating Currents and Circuit Configurations Available
- Wide Range of Mounting and Terminations Available
- Hydraulic-Magnetic Technology
- 100% Rating Capability, Independent of Ambient Temperature

Applications

- Lighting Equipment
- Power Supplies
- Small Generators and Motors
- Entertainment Systems
- Vending Machines
- Office Equipment
- Telecom Power Distribution
- Railway Signaling Systems
- Marine Power Systems
- PDU Units

Technical Data

Product Type	Circuit Breaker	Circuit Breaker	Circuit Breaker
Approvals	cUR _{us} (ULI077/CSA)	VDE (EN 60934)	UL489A/VDE (EN60934)
Number of Poles	1, 2	1, 2	1
Maximum Voltage	240V AC/65V DC	240V AC/65V DC	80V DC
Current Rating	0.02A to 30A (25A DC)	0.02A to 30A (25A DC)	0.1 to 30A
Interrupting capacity	500A at 65V DC 1kA at 240V AC	500A at 65V DC 1kA at 240V AC	600A at 80V DC
Operating Temperature Range	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C

Time Delay Data

Std. Curve Codes	Limits	Percentage of Rated Current Trip Time in Seconds									
		125%	150%	200%	300%	400%	500%	600%	800%	1000%	1200%
AS	Min (s)	90	32	12	3.5	0.6	0.012	0.008	0.0064	0.005	0.0044
	Max (s)	1200	400	100	37	17	10	5.6	0.2	0.058	0.038
BS	Min (s)	15	7.3	2.6	0.47	0.06	0.012	0.006	0.0042	0.0037	0.0036
	Max (s)	300	90	30	8	3.2	1.4	0.7	0.08	0.05	0.04
CS	Min (s)	1.3	0.65	0.28	0.09	0.04	0.015	0.006	0.0043	0.004	0.004
	Max (s)	40	7	2.5	0.8	0.49	0.36	0.28	0.075	0.048	0.03

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B-Frame Series Circuit Breakers

Long Code		
Group 1: Frame and Handle	Code	Description
	BA	Black Body, Square Handle
	BB	Black Body, Paddle Handle
	BC	Black Body, Baton Handle
	BD	Black Body, Rocker Handle
	BE	Black Body, Illum. Rocker Handle
	BF	Black Body, Push-to Reset Handle
	BG	Black Body, Push-Pull Handle
Group 2: Mounting	Code	Description
	A	Metric (M12)
	C	Imperial (1/2" - 32)
	G	Snap-in Vertical Mounting (Without Rocker Guard)
	H	Snap-in Vertical Mounting (With Rocker Guard)
	M	Snap-in Horizontal Mounting (Without Rocker Guard)
	N	Snap-in Horizontal Mounting (With Rocker Guard)
	Q	3/8" - 32 Threadneck
	R	Clip-in Mounting
Group 3: No. of Poles	Code	Description
	1	Single Pole Unit, Quick Connect
	2	Double Pole Unit, Quick Connect
	A	Single Pole Unit, 90° Bent Terminal QC
	B	Double Pole Unit, 90° Bent Terminal QC
	C	Single Pole Unit, Screw Terminal - M4/8-32
	D	Double Pole Unit, Screw Terminal - M4/8-32
	H	S/Pole Rear Flush Screw
	I	D/Pole Rear Flush Screw
	Z	Special specify
Group 4: Voltage	Code	Description
	E	65VDC
	F	80VDC
	M	65VDC / 240VAC
	P	240V
	X	120VDC / 240VAC
	Z	Special specify
Group 5: Frequencies	Code	Description
	A	AC
	D	DC
	M	AC / DC
Group 6: Circuit	Code	Description
	A	Switch
	B	Series Trip
	C	Relay Trip (Current Sensing)
	D	Relay Trip (Voltage Sensing)
	E	Shunt Tap (Current Sensing)
	F	Shunt Tap (Voltage Sensing)
Group 7: Auxiliary Switch(es)	Code	Description
	0	Not applicable
	1	1 x Change-Over (3A 125V AC)
	2	2 x Change-Over (3A 125V AC)
	3	1 x Change-Over (0.1A 125VAC)
	4	2 x Change-Over (0.1A 125VAC)
Group 8: Handle, Indicator Colour and Marking	Code	Description
	2	White (No Marking)
	3	Black (No Marking)
	K	White (I/O and On/Off)
	L	Black (I - O and On/Off)
	X	Not Applicable
	Z	Special - Specify
Group 9: Voltages for Illuminated Rocker Units	Code	Description
	1	100 - 125V AC Lead Connections
	2	200 - 240V AC Lead Connections
	3	4 - 16V DC Lead Connections
	4	16 - 24V DC Lead Connections
	5	24 - 32V DC Lead Connections
	6	32 - 48V DC Lead Connections
	A	100 - 125V AC QC Term
	B	200 - 240V AC QC Term
	C	8 - 16V DC QC Term
	D	16 - 24V DC QC Term
	E	24 - 32V DC QC Term
	F	32 - 50V DC QC Term
	X	Not applicable
	Z	Special - Specify

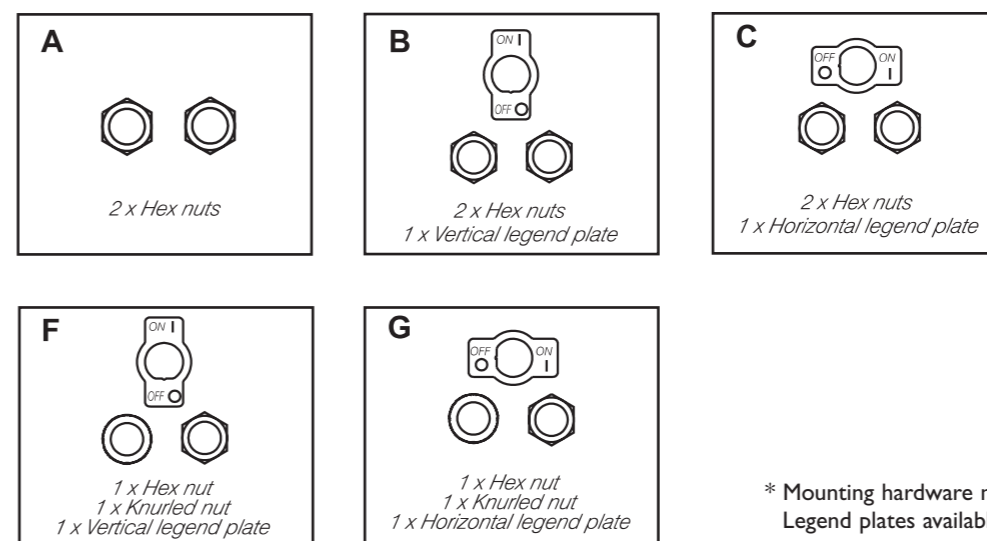
B-Frame Series Circuit Breakers

Long Code				
Group 10: Time Delay and Instantaneous Trip Point	Code	Description	System	Pulse Tolerance
	AD	Long Time Delay (Dual Rated)	AC and DC	8 x In
	AI	AS + Inertia Delay	AC or DC	12 x In
	AS	Long Time Delay	AC or DC	8 x In
	AW	AD + Inertia Delay (Dual Rated)	AC and DC	12 x In
	BD	Medium Time Delay (Dual Rated)	AC and DC	8 x In
	BI	BS + Inertia Delay	AC or DC	12 x In
	BS	Medium Time Delay	AC or DC	8 x In
	BW	BD + Inertia Delay (Dual Rated)	AC and DC	12 x In
	CD	Short Time Delay (Dual Rated)	AC and DC	8 x In
	CI	CS + Inertia Delay	AC or DC	12 x In
	CS	Short Time Delay	AC or DC	8 x In
	CW	CD + Inertia Delay (Dual Rated)	AC and DC	12 x In
	OP	Instantaneous	AC or DC	None
	OD	Instantaneous (Dual Rated)	AC and DC	None
	OX	Switch	AC and DC	Not Applicable
	ZZ	Special specify		
Group 11: Main Circuit Current Ratings	Code	Description		
	020M	20mA		
	1000	10A		
	1250	12.5A		
	3000	30A		
	XXXX	No Rating		
Group 12: Relay Trip Coils	Code	Description		
	A024	24V AC/DC Voltage Coil		
	A065	65V AC Voltage Coil		
	A100	100V AC Voltage Coil		
	A110	110 - 125V AC Voltage Coil		
	A220	220 - 240V AC Voltage Coil		
	D012	12V DC Voltage Coil		
	D024	24V DC Voltage Coil		
	K005	5A Current Coil		
	K015	15A Current Coil		
	K025	25A Current Coil		
	M020	20mA Current Coil		
	M100	100mA Current Coil		
	XXXX	Not Applicable		
	ZZZZ	Special - Specify		
Group 13: Approvals	Code	Description		
	1	UL 1077: CSA; VDE		
	2	No Approvals		
	3	UL 489A		
Group 14: Safety Marks	Code	Description		
	1	CCC		
	2	No Safety Mark		

For Options not listed please contact CBI for assistance

Example code: BA-C-1-PA-B-1-3-XXXX-AS-1000-X-1-1

Mounting kits



* Mounting hardware must be ordered separately. Legend plates available for M12 and 1/2" only.