electric

D-Frame Series Circuit Breakers

Features

- Hydraulic-Magnetic Technology
- 100% Rating Capability Independent of Ambient Temperature
- Up to Six Poles
- cULus, VDE and CE Approved
- Ratings up to 250A
- Optional Trip Alarm Switch and Auxiliary Switch
- Wide Range of Circuits, Mountings, Terminations and Time Delays Available
- Optional Mid Trip Indication
- Two Colour Handle Indication (Two Tone Flush Rocker)

Applications

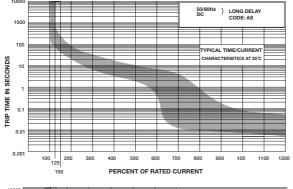
- AC and DC Branch Circuit Installations
- Telecom DC Power Distribution
- UPS Equipment
- Mobile Power-Generation Equipment
- Power Conditioning
- Alternative Energy Equipment
- Lighting Control
- Marine Protection

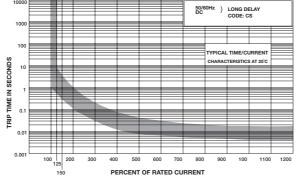


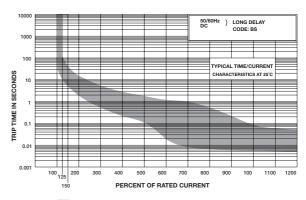


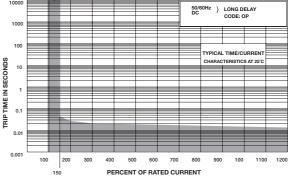
Technical Data			
Product Type	Circuit Breaker	Circuit Breaker	Circuit Breaker
Approvals	cULus 489	CE,VDE (EN 60947-2)	UL489A, CE,VDE (EN60947-2)
Number of Poles	1, 2	1,2	I, 3 (Parallel)
Operating Voltages	120 V AC, 80V DC, 120/240V AC	240V AC, 80V DC	80V DC
Current Ratings	0.1 – 80A AC, 100A DC (1p),	0.1 – 50A AC, 0.1 – 100A DC	110 – 250A
	0.1 – 50A (2p)	5kA	10kA
Interrupting capacity	10kA, 5kA (2p)		
Product Type	Switch	Circuit Breaker	Circuit Breaker
Approvals	cULus 508, CE, VDE (EN60947-3)	cURus 1077	CE, VDE (EN 60934
Number of Poles	1, 2	I to 6	I to 4
Operating Voltages	120V AC, 120/240V AC	80V DC, 277V AC, 277/480 V AC	80V DC, 240V AC, 240/415V AC
Current Ratings	50A	0.02 - 100A (1p), 0.02 - 70A (2-6p)	0.01 - 100A (1p), 0 - 70A (2-4p)
Interrupting capacity	600 A (For I sec)	2kA AC, 5kA DC	3kA AC, 5kA DC
Vibration Resistance	10G to MIL-STD-202F Method 204D Test A		
Shock Resistance	100G to MIL-STD-202F Method 213B Test A		
Operating Temperature Range	-40°C to +85°C		

Preferred Standard Delays











D-Frame Series Circuit Breakers

Long Code			
Group 0: Frame	Code	Description	Comments
•	D	D-Frame	
Group I: Type	Code	Description D-Frame D – Type	Comments UL Recognized approvals only
	2	D-Frame DD –Type	UL Listed and UL recognized approvals
Group 2: Mounting	Code	Description	Comments
	В	Front mount rectangular aperture toggle handle type Snap-in mount edges flush	See figure 1.1 See figure 1.2, available on D-Type only
	S	Centre lock mounting Front mount rectangular aperture flush rocker handle type	See figure 1.3, available on D-Type only See figure 1.4, available on DD-Type only
6 3 11 11 11 11 11	Z	Special specify	
Group 3: Handle or Pole Blank (Reduced Handle)	Code	Description Standard handle	Comments See figure 2.1; for mountings A, B
,	В	Short handle	See figure 2.2; for mountings A, B; D-Type only
	C D	Cut off handle Paddle handle	See figure 2.3; for mountings A, B; only I handle per unit See figure 2.4; for mounting D; only I handle per unit
	E H	Baton handle Flush rocker handle	See figure 2.5; for mounting D; only I handle per unit
	M	Two tone flush rocker handle	See figure 2.6; for mounting S; only I handle per unit See figure 2.7; for mounting S; only I handle per unit
		No handle, Blank front plate, D-frame type Standard handle, mid trip	For reduced handle version, on pole without handle See figure 2.8; for mountings A, B
	5	Flush rocker handle, mid trip pull to reset	See figure 2.9; for mounting S; only I handle per unit
	6 Z	Two tone flush rocker handle, mid trip pull to reset Special specify	See figure 2.10; for mounting S; only 1 handle per unit
Group 4: Main Terminal	Code	Description	Comments
Description	AX BX	M5 or 10-32 stud Clamp terminal M3 or 6-32	See figure 3.1; 60A max. See figure 3.2; 30A max.; D-Type only
	CX	Rear quick connect terminal (0.8mm X 6.35mm)	See figure 3.3; 25A max.; D-Type only
	MX 2X	M6 or 1/4-20 stud terminals Plug in terminal (Ø6.25mm X 21.5mm)	See figure 3.4; IOOA max. See figure 3.5; 50A max.
	3X 4X	Plug in terminal (Ø7.80mm X 21.5mm) M5 or 10-32 flush rear screw terminal	See figure 3.6; 100A max. See figure 3.7; 50A max.; DD-Type only
	VI	Bridge terminal for 2 pole parallel construction	See figure 3.8 200A max.; DD-Type only
	XX	Bridge terminal for 3 pole parallel construction No Terminal	See figure 3.9; 250A max.; DD-Type only
Cooper To Normalism of Balan	ZZ	Special specify	
Group 5: Number of Poles	Code	Description Code Description I pole metric A I pole imperial	
	2	2 pole metric B 2 pole imperial	
	3	3 pole metric C 3 pole imperial 4 pole metric D 4 pole imperial	
	5	5 pole metric E 5 pole imperial	
Group 6: Rated Voltage and	Code	6 pole metric F 6 pole imperial Description	Comments
Frequency	J K	240V 50/60Hz 277V 50/60Hz	Common bus at 240V Common bus at 277V
	N	80V DC	Common bus at 277 v
	S	120/240V 50/60Hz 240/415V 50/60Hz	3 wire centre tap supply, I 20V per phase 3 Phase multi wire system
	R	277/480V Hz	3 Phase multi wire system
	M L	80V DC / 240V 50/60z 80V DC / 277V 50/60Hz	AC/DC version only with AC and DC curves AC/DC version only with AC and DC curves
Group 7: Time Delay	Z Code	Special specify Description System Pulse Tolerance Code	Description System Bules Television
(For details of time delay refer to the	AS	Description System Pulse Tolerance Code Long delay AC or DC 8 x In CE	Description System Pulse Tolerance CH & inertia wheel AC 35 x In
application guide or web site)	AI AH	AS & inertia wheel AC or DC 20 x ln US Long delay, high inrush AC 20 x ln OP	Ultra short time delay
	AE	AH & inertia wheel AC 35 x In AD	Long delay, Dual rated AC and DC 8 x In
	BS BI	Medium delay AC or DC 8 x In BD BS & inertia wheel AC or DC 20 x In CD	Medium delay, Dual rated AC and DC 8 x In Short delay, Dual rated AC and DC 8 x In
	BH	Medium delay, high inrush AC $20 \times In$	AD & inertia wheel, Dual AC and DC 20 x In
	BE CS	BH & inertia wheel AC 35 x ln BW Short delay AC or DC 6 x ln CW	BD & inertia wheel, Dual AC and DC 20 x In CD & inertia wheel, Dual AC and DC 15 x In
	CI	CS & inertia wheel AC or DC I5 x In OX Short delay high inrush AC I5 x In ZZ	Switch (series V coil) Special specify
	H3	Short delay, flight lift dish AC or DC 6 x In	Special specify
Group 8: Main Circuit Current (Example only, any ampere rating	Code	Description	
possible)	050M 0100 1000	50mA IA	
. ,		10A 50A	
	5000 K100	100A	
Group 9: Circuit Configuration	Code	No current, for voltage trip poles Description	Comments
3	AX	Switch	Comments
	BX Series trip CX Relay trip Current sensing, centre terminal construction		50A max for the sensing coil; total current 100A max
	DX	Relay trip Voltage sensing, centre terminal construction	· ·
	FX FX	Shunt trip current sensing, 3rd terminal close to load side Shunt trip voltage sensing, 3rd terminal close to load side	Total load 100A maximum
	GX	Dual control shunt trip construction, 3rd terminal close to load side	Voltage coil normally at line voltage; No AH, BH, CH, AE, BE, CE
	JX	Dual control - relay trip construction (4 terminal) Switch with auxiliary switch	No AH, BH, CH, AE, BE, CE
	KX	Series trip, with auxiliary switch	Trip alarm requires mid trip handle
	ZZ	Series trip, with trip-alarm Special specify	Trip alarm requires mid trip handle
Group 10: Auxiliary and Alarm Code Description		Description One change even gold tips equally speed terminals	Comments
Switches	Switches A One change over gold tips, equally spaced terminals B One change over silver plated tips, equally spaced terminals Integrated micro switch housing, silver tips		0.02 to 0.1A Max 30V
			Required for parallel bridged DD-Type on last pole. See figure 3.8 and 3.9
	X	Not applicable	No auxiliary switch - Flat base plate
	Z	Special specify	



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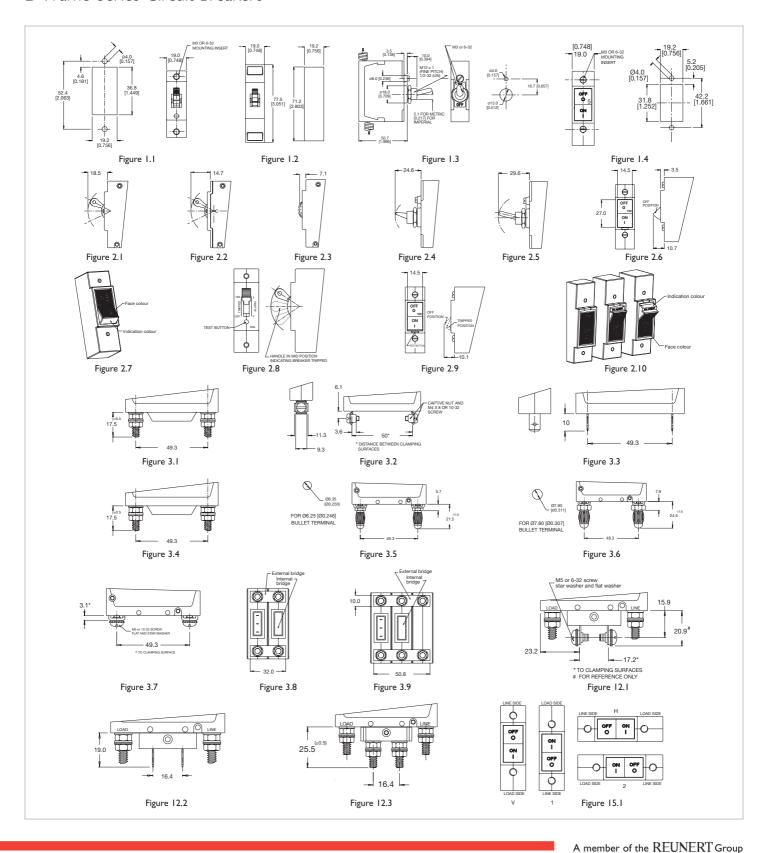
Group 12: Terminals for Shunt, Rolly and Dual control (x2)				
Voltage and Current coil ratings A 3 2025/CVA 25060912 C. C. 1 207A A 3 2025/CVA 25060912 C. C. 1 207A B 1 4 V DC	Long Code			
coil ratings A3 220-240 / AC 505-612				
Group 12: Terminals for Shunt, Relay and Dual control construction Relay and Dual control construction Relay and Dual control				
Group 12: Terminals for Shurt, Relay and Dual control construction Figure 12.150 Armax Figure 12.150 Arm	2011 12211180	B0 12V DC	C3 IA	
Group 13: Voltage for Illuminated Rocker Group 14: Terminal for Illuminated Rocker Group 15: Handle colour Group 15: Handle colour Group 16: Terminal for Illuminated Rocker Group 17: Handle colour Group 18: Front plate colour of Rocker Illuminated Rocker Group 19: Terminal for Illuminated Rocker Group 19: Handle colour Group 19: Handle colour Group 19: Handle colour Group 19: Terminal for Illuminated Rocker Group 19: Terminal for Illuminated Rocker Group 19: Terminal for Illuminated Rocker To Description Description Description Description For Illuminated Handle versions please contact you CRI office for assistance. Note For Illuminated Handle versions please contact you CRI office for assistance. Note To Illuminated Rocker The coding is description to Rocker Note For Illuminated Handle versions please contact you CRI office for assistance. Note The coding is description Note The coding is description to Rocker The coding is description to the Special colour of the for the flush rocker and two to not a flush and the colour code describes the colour of the for the flush rocker and two to not a flush and the narriang colour code describes the colour of the flush rocker and two to not a flush and the narriang colour code describes the colour code d				
Relay and Dual control construction B	roup 12: Terminals for Shunt			C
Construction C Quick connect terminal Figure 122, 25A max. Figure 122, 25A max. Figure 123, 60A max. X Not applicable C Code Rocker Group 14: Terminal for Illuminated Rocker Group 15: Handle colour Group 15: Handle colour Group 15: Handle colour Group 15: Handle colour G G Creer with whate marking	-		Description	
Group 13: Voltage for illuminated Rocker Group 15: Handle colour Group 15: Handle colour Group 15: Handle colour Group 15: Handle colour Group 16: Handle colour Group 16: Handle colour Group 16: Handle colour Group 17: Handle colour Group 18: Front plate colour and marking options Group 19: Inter-phase barrier and terminal cover and terminal co	construction			Figure 12.2; 25A max.
Group 14: Terminal for Code Group 15: Handle colour Group 15: Handle colour Group 16: Handle Marking Group 16: Handle Marking Group 16: Handle Marking Group 17: Handle Orientation Group 18: Front plate colour and marking options Group 18: Handle Orientation Group 19: Inter-phase barrier and terminal covers and reminal covers and terminal covers and reminal				Figure 12.3; 60A max.
Rocker Z Special specify X X X X X X X X X	woun 12. Voltage for Illuminated	Z Special specify	5	N.
Group 14: Terminal for Illuminated Rocker Group 15: Handle colour Group 15: Handle colour Group 16: Handle colour Group 16: Handle colour Group 16: Handle colour Group 16: Handle colour Group 17: Handle Colour Group 18: Front plate colour and marking options Group 18: Front plate colour and marking options Group 19: Inter-phase barrier and terminal cover (Interphase barrier and terminal cover) Group 19: Inter-phase barrier and terminal cover (Interphase barrier and terminal cover) Group 19: Interphase barrier and terminal cover (Interphase barrier and terminal cover) Group 19: Interphase barrier and terminal cover (Interphase barrier and terminal cover) Group 19: Interphase barrier and terminal cover (Interphase barrier and terminal cover) Group 19: Interphase barrier and terminal cover (Interphase barrier and terminal cover) Group 19: Interphase barrier and terminal cover (Interphase barrier and terminal cover) Group 19: Interphase barrier and terminal cover (Interphase barrier and terminal cover) Group 19: Interphase barrier and terminal cover (Interphase barrier and terminal cover) Group 19: Interphase barrier and terminal cover (Interphase barrier and terminal cover) Group 19: Interphase barrier and terminal cover (Interphase barrier) Group 19: Interphase barrier and terminal cover (Interphase barrier) Group 19: Interphase barrier and terminal cover (Interphase barrier) Group 19: Interphase barrier and terminal cover (Interphase barrier) Group 19: Interphase barrier and terminal cover (Interphase barrier) Group 19: Interphase barrier and terminal cover (Interphase barrier) Group 19: Interphase barrier and terminal cover (Interphase barrier) Group 19: Interphase barrier and terminal cover (Interphase barrier) Group 19: Interphase barrier and terminal cover (Interphase barrier) Group 19: Interphase barrier and terminal cover (Interphase barrier) Group 19: Interphase barrier and terminal cover (Interphase barrier) Group 19: Interphase barrier and terminal cover (Interphase barrie			Description	Note
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A			Description	·
Group 16: Handle Marking Group 17: Handle Orientation Group 18: Front plate colour and marking options Group 18: Front plate colour and marking options Group 19: Inter-phase barrier and covernance (Inter-phase barrier and covernance) Group 19: Inter-phase barrier and covernance (Inter-phase barrier and covernance) Group 19: Inter-phase barrier and covernance (Inter-phase barrier and covernance) Group 19: Inter-phase barrier and covernance (Inter-phase barrier and covernance) Group 19: Inter-phase barrier and covernance (Inter-phase barrier and covernance) Group 19: Approvals and typical safety pracks Group 19: Approval				
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## Blue with white marking				handles, excluding the flush rocker and two tone flush rock
Y Yellow with black marking Red with white marking For flish rocker handle White (Cor) / White (Off) black (Off) white marking Indication colour. The face colour is black and the White (Cor) / White (Off) black (Off) white marking After selecting the appropriate colour code Green (Cor) / White (Off) black (Off) white marking After selecting the appropriate colour code After selecting the appropriate After selecting the work of After selecting the appropriate After selecting the appropriate After selecting the work of After selecting the appropriate After selecting the work of After selecting the work of After selecting the appropriate After selecting the work of After selecting the appropriate After selecting the work of Aft				For the flush rocker handle the colour code describes the
For flush rocker handle White (Or) / white (Off) black marking indication colour. The face colour is black and the White (Or) / white (Off) black marking indicates the off or tripped position (see figure 2.)		Y Yellow with black marking		colour of the on and off actuation buttons by a single cod
W White (Off) / white (Off) black marking indicates the off or tripped position (see §gure 2.) Black (On) / black (Off) white marking After selecting the appropriate colorur code or marking code. The marking code of the two tone Black face / white indicator + marking equivalent to the indicator colour of the two tone Black face / white indicator + marking equivalent to the indicator colour of the two tone Black face / white indicator + marking equivalent to the indicator colour of the two tone Black face / white indicator + marking equivalent to the indicator colour of the two tone Black face / green indicator + marking for the toggle handle types only codes V are applicable (see figure 15.1). If the pole has recover a policial position Black face / green indicator + marking for the toggle handle types only codes V are applicable (see figure 15.1). If the pole has recover a policial position Black face / green indicator + marking for the toggle handle types only codes V applicable (see figure 15.1). If the pole has recover a policial position for the toggle handle types only codes V applicable for the indicator colour and terminal cover for an ampere rating for 1.0 and SN - OFF D		8		indication colour. The face colour is black and the indication
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Group 16: Handle Marking Code		G Black face / green indicator -		applicable (see figure 15.1). If the pole has no hand
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B 1-0 C ON - OFF D 1-0 and ON - OFF D 1-0 and ON - OFF E Ampere rating F 1-0 and ampere rating F 1-0 and ampere rating F 1-0 and ampere rating H H on and ON - OFF and ampere rating X No Handle Z Special specify Vertical H H Horizontal T Vertical I See figure 15.1 The diagram only shows the flux printing which has the opposite printing position (to other handle types if the breaker needs to be refund to the printing which has the opposite printing position (to other handle types if the breaker needs to be refund to the printing which has the opposite printing position (to other handle types if the breaker needs to be refund to other han	roup 16: Handle Marking	Code	Description	
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E Ampere rating F I = 0 and ampere rating G ON-OFF and ampere rating H H and ON-OFF and ampere rating X No Handle Z Special specify		C ON - OFF		
F				
Group 17: Handle Orientation H		F I - 0 and ampere rating		
Group 17: Handle Orientation Vertical Horizontal Vertical				
Group 17: Handle Orientation Vertical H Horizontal Vertical I H Horizontal Vertical I V		X No Handle	C rating	
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Composition Comments Code Code Code Code Comments Code				printing, which has the opposite printing position (ON/OF
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Group 18: Front plate colour and marking options Code				
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Group 19: Inter-phase barrier and terminal cover (Interphase barriers and terminal covers are required for UL listed Approvals) A Small inter-phase barrier B Large inter-phase barrier C Z Inter-phase barrier I Terminal cover(s) Small inter-phase barrier C Interphase barriers and terminal cover smay be reformulti-pole products that have UL listed approvals. See the application guided approvals. See the a	marking options			I-0, ON-OFF and Amp rating
Group 19: Inter-phase barrier and terminal cover (Interphase barriers and terminal covers are required for UL listed Approvals) Code A Small inter-phase barrier B Large inter-phase barrier I Terminal cover(s) Small inter-phase barrier I Interphase barriers and terminal covers may be recovered approvals. See the application guide approvals. See the application guide approvals. See the application guide approvals and typical safety marks Group 20: Approvals and typical safety marks (Standard marks and approval basket Code Description Comments A Small inter-phase barrier I Interphase barriers and terminal cover of or multi-pole products that have UL listed approval. See the application guide of or details, or contact your nearest of office for assistance. Code Description Comments For VDE, CE normally IEC/EN60934 For VDE, CE normally IEC/EN60947-2			, with test button for mechanical trip	lest button is standard on mid trip rocker handle version
(Interphase barriers and terminal covers are required for UL listed Approvals) B Large inter-phase barrier C Z Inter-phase barrier 1 Terminal cover(s) 2 Small inter-phase barrier and terminal cover 3 Large inter-phase barrier and terminal cover 4 Z inter-phase barrier and terminal cover 4 Z inter-phase barrier and terminal cover 5 X Not applicable 7 X Not applicable 8 Large inter-phase barrier 9 UL recognized approvals. See the application guide approvals. See the application guide office for assistance. 9 D/DD frame for details, or contact your nearest Confice for assistance. 9 Office for assistance. 9 Comments 9 Comments 1 UL recognized, CSA, VDE, CE 9 Description 9 Comments 1 UL recognized approvals. See the application guide office for assistance. 9 Office for assistance. 9 Comments 1 UL recognized, CSA, VDE, CE 9 Office for assistance. 9 For VDE, CE normally IEC/EN60934 9 For VDE, CE normally IEC/EN60934 9 For VDE, CE normally IEC/EN60947-2		Code	Description	Comments
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X Not applicable Only required in specific cases where import into the prohibited, unless the product carries the mark.				Only required in specific cases where import into the country

For Options not listed please contact CBI for assistance

Example code: D-2SM4XBSOX5000AXX-XXXXXWHHBCZC



D-Frame Series Circuit Breakers



South Africa

CBI-electric: low voltage

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