









The DD-Frame is a compact yet very powerful circuit breaker. Using hydraulic-magnetic technology which ensures that breaker performance is unaffected by ambient temperature, the CBI DD-Frame series is suitable for various applications in telecom and datacom equipment. These applications include being the main breaker for battery applications, power supplies, distribution breaker for larger loads in DC branch protection, lighting control, UPS, inverters and DC power switching and in power distribution units (PDU). The DD-Frame is also available as a switch.

Due to its robustness and ability to withstand harsh environmental conditions, the DD-Frame breaker is also used in military applications, railway infrastructure, railway signalling and rolling stock and also in renewable energy solutions for protection in combiner boxes and other battery and storage applications.

DD-Frame profile

The DD-Frame is available in various configurations and can be structured to suit specific requirements. Available in 1 to 6 poles, this robust and versatile circuit breaker comes in both AC and DC configurations with a choice of various time delay characteristics.

Among the common configurations are the front mount standard handle and flush rocker handle options. As for the termination, metric and imperial stud terminals, plug-in (bullet terminal), screw, and clamp terminal configurations are available. The breaker comes with the option of an auxiliary switch and trip alarm. Customer specific configurations, DIN rail mount and various other options are available.

The DD-Frame compact and precision circuit breaker is made of high quality thermoset material, which offers increased electrical and mechanical endurance. The self-cleaning mechanism of the contact actuators ensures that the circuit breaker contacts are kept clean and operate smoothly, offering longer life span.

Approvals

The DD-Frame circuit breaker is CE & CCC compliant and carries various approvals such as VDE, cURus, EAC and CCC. It is also recognised to UL 1077 and UL 508, and listed to UL 489 and UL 489A. Compliant with AS/NZS 60947-2.

















(UL 489A)

(UL 489; (UL 1077; CSA C22.2 NO.5) CSA C22.2 NO.235-04) (CSA C22.2 No. 5-16) (IEC / EN 60947-2; IEC / EN 60934) (GB 14048.2; GB 17701) (IEC 60947-2; IEC 60934) (IEC 60947-2)

Hydraulic-Magnetic Circuit Breakers are unaffected by ambient temperature and carries 100% rated current



Features

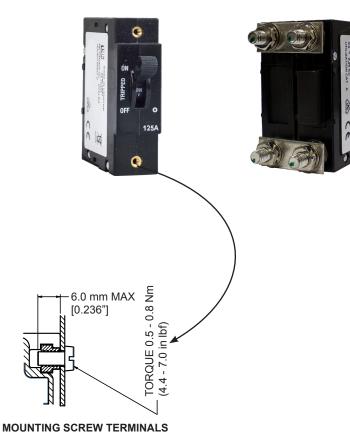
- · AC and DC circuit breaker
- · Hydraulic-magnetic technology
- 100% rating capability independent of ambient temperature
- Up to six poles
- VDE, EAC and CCC approved, CE certified
- UL compliant (Listed / recognised)
- Ratings 0.1 A to 100 Aac and 400 Adc (Specific certifications)
- Precision tripping characteristics
- Wide range of circuits, mountings, terminations and time delays
- Two colour handle indication (Two tone flush rocker)
- Optional mid-trip indication (Standard handle)
- Optional auxiliary switch and trip alarm
- Optional remote switching (see RAU data sheet)

Applications

- AC and DC branch circuit installations
- Power conditioning
- Telecom DC and Datacom power distribution
- · Alternative energy equipment
- UPS equipment
- Lighting control
- Mobile power generation equipment
- Battery protection
- Railway signaling and infrastructure protection

DD-Frame HCR (High Current Rating)

CBI-electric: low voltage offers a higher current rated product, capable of handling current ratings up to 125 A in a single pole, 250 A in a two pole configuration, and 300 A in a three pole configuration at 60 Vdc.







Technical Data

Product Type	DD-Frame
Ambient Operating Temperature	-40°C to +85°C
Endurance	10000 operations; 1500 with current, 8500 without current (IEC 60947-2 Clause 7.2.4.2)* 1000 operations DC, 6000 operations AC (IEC 60934 Clause 9.11)* 10000 operations; 6000 with current, 4000 without current (UL 489 Clause 7.1.5)* As per UL 489 or minimum of 1000 operations with current (UL 489 A Clause 12)* 6000 operations with current (UL 1077 Clause 22)*
Dielectric Strength	1000 - 2000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3, IEC 60934 Clause 9.7)* 1000 Vac plus twice the rated voltage for one minute (UL 489 Clause 7.1.9, UL 489A Clause 8, UL 1077 Clause 23)*
Rated Impulse Withstand Voltage	4 kV (IEC 60947-2 Clause 8.3.3.2)*
Weight	102 g per pole, 160 g with auxiliary switch (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.

* Refer to the standard for details

Product Type	Circuit Breaker	Circuit Breaker	Circuit Breaker	Circuit Breaker
Approvals	IEC / EN 60947-2, GB 14048.2, CE, UKCA	IEC / EN 60947-2, GB 14048.2, CE, UKCA	IEC 60947-2, CE, UKCA	AS/NZS 60947-2, IEC 60947-2, CE, UKCA
Number of Poles	1, 2, 3, 4	2 - 5 (parallel)	1, 2 - 3 (parallel)	1, 2
Maximum Voltages	240 / 415 Vac, 80 Vdc	80 Vdc	60 Vdc	125 Vdc
Current Ratings	0.1 - 60 A(ac) 0.1 - 100 A(dc)	110 A - 400 A	125 A, 250 A, 300 A	0.1 A - 60 A
Ics	5 kA (DC),1.25 kA (AC),	5 kA	2.5 kA	2.5 kA
Icu	3 kA (AC), 5 kA (AC) 10 kA (DC)	10 kA	5 kA	5 kA

Product Type	Circuit Breaker		Circuit Breaker	Circuit Breaker
Approvals	UL 489		UL 489 A, CSA C22.2 No. 5 -16	UL 489A, CSA C22.2 No. 5 -16
Number of Poles	1, 2, 3	1	1, 2 - 3 (parallel)	2 - 5 (parallel)
Maximum Voltages	120 Vac, 120 / 240 Vac, 240 Vac, 80 Vdc	277 Vac	60 Vdc	80 Vdc
Current Ratings	0.1 - 80 A(ac) 0.1 - 100 A(dc)	0.1 - 20 A	125 A, 250 A, 300 A	110 A - 400 A
AIC	AC - 10 kA, DC - 20 kA	10 kA	14 kA	20 kA

Product Type	Circuit Breaker	Circuit Breaker	Switch	Switch
Approvals	IEC / EN 60934, CE, GB 17701, UKCA	UL 1077, cURus	UL 508	IEC / EN 60947-3, CE
Number of Poles	1 - 4	1 - 6	1, 2	1, 2
Maximum Voltages	240 Vac / 415 Vac, 80 Vdc	277 Vac / 480 Vac, 80 Vdc	120 Vac / 240 Vac, 80 Vdc	240 Vac
Current Ratings	0.1 A - 100 A (1 p), 0.1 A - 70 A (2 - 3 p)	0.1 A - 100 A (1 p), 0.1 A - 70 A (2 - 4 p)	15 A - 100 A	50 A
Interrupting Capacity	-	2 kA/U2/ U3 (AC) 5 kA/C1 (AC) 5 kAU2/ U3 (DC)	-	-
Rated conditional S/C	3 kA (AC) PC1, 5 kA (DC) PC1	-	-	-
Icm	-	-	-	0.6 kA (for 1 switch)

Verify approvals for specific ratings in accordance with the relevant test certificate



Technical Data

	Aux Switch Specification						
Gold DB3	EN 61058 0.1 A @ 250 Vac & 0.1 A @ 80 Vdc and UL 1054 0.1 A @ 125 / 250 Vac & 0.1 A @ 30 Vdc & 0.3 A @ 60 Vdc						
Silver DB2	EN 61058 10 A @ 250 Vac & 0.1 A @ 80 Vdc and UL 1054 10 A @ 125 / 250 Vac						
Silver V4D	EN 61058-1 10 A @ 250 Vac						

Torque Table

Description	Size	Torque Value		
Front Inserts	M3	0.5 - 0.8 Nm		
From inserts	6 - 32	5 - 7 lbf.in		
	M5	2.0 - 2.8 Nm		
Rear Studs	10 - 32	18 - 24 lbf.in		
Rear Studs	M6	3.5 - 4.0 Nm		
	1/4 - 20	30 - 35 lbf.in		
Clamp Screws (DIN Rail mounting)	M3.5	1.2 - 1.5 Nm		
Flush Rear Screws	M5	1.7 - 2.3 Nm		
riusii kedi Sciews	10 - 32	15 - 20 lbf.in		

DD-Frame Series Circuit Breakers Ordering Information

Group 1:	Code		Desci	ription		Comme	nts		
Frame	D		DD-F	Frame					
Group 2:	Code		Desci	ription		Comme	nts		
Туре	2		DD-Frame	e, DD-Type					
Group 3:	Code			ription		Comme	nts		
Mounting	А	Front Mount, Re	ctangular Ape	rture - Standard Toggle Handle	Max	imum penetration depth into the prod	duct by the mo	ounting screw is 6mm	
	G		Rail and su	rface mount		DIN and mini rail and surface mount	(Auxiliary swi	tch not available)	
	S	Front Mount, F	Rectangular Ap	erture - Flush Rocker Handle	Max	imum penetration depth into the prod	duct by the mo	ounting screw is 6mm	
Group 4:	Code		Desci	ription		Comme	nts		
Handle Type or	2	Sta	andard Toggle	Handle - Mid Trip		Standard Toggle Handle, NC	T Available o	n 60V dc	
Blank for Reduced Handle	А		Standard To	oggle Handle		Standard Toggle Handle, goes to	Off Position	when tripped	
	С		Cut off	Handle		Available on sing	le pole only		
	Н	Fl	ush Rocker Ha	indle (100 A Max)		Use with Group 3, code S. Reduced	d Handle up to	three pole only	
	М	Flush R	ocker Handle -	Two Tone (100 A Max)		Use with Group 3, code S. Reduced	d Handle up to	three pole only	
	Q			sh to Reset (100 A Max); n to switch OFF.		Use with Group 3, code S. Reduced	d Handle up to	three pole only	
	R			Reset- Two Tone (100 A Max); n to switch OFF.	Use with Group 3, code S. Reduced Handle up to three pole only			three pole only	
	W		Blank Pole	- No Handle	For reduced handle version on Pole(s) without handle				
Group 5:	Code		Desci	ription	Comments				
Termination	3X	3 (4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				100 A max (80 Vdc), 125 A max (60 Vdc) per terminal			
	4X	Flush rear screw terminal, M5 or 10 - 32				50 A max per	terminal		
	5X	Double quick connect M3.5 terminal (6.35 mm X 0.8 mm)				50 A max per	terminal		
	AX	Stud terminals, M5 or 10 - 32				60 A max per	terminal		
	DX	Quick connect termina		(0.8 mm), top & bottom for mounting ion G	30 A max. For rail mounting G in group 3 only.				
	LX	Clamp term	inal, top & bott	om for mounting version G		30 A max. For rail mounting	ng G in group	3 only.	
	MX	Stud terminals, M6 or 1/4 - 20				125 A max per	terminal		
Group 6:	Code	Description	Code	Description	Code	Description	Code	Description	
Total No. of Poles	1	1 pole metric	4	4 pole metric	Α	1 pole imperial	D	4 pole imperial	
	2	2 pole metric	5	5 pole metric	В	2 pole imperial	Е	5 pole imperial	
	3	3 pole metric	6	6 pole metric	С	3 pole imperial	F	6 pole imperial	
Group 7:	Code	Description	1	Comments	Code	Description		Comments	
Rated Voltages and Frequency -	Н	125 Vdc		0.1 A - 60 A Max (Single pole only)	N				
Main Circuit	J	120 Vac; 240 (Apply to listed single p		Refer to certification report for approvals details	R			Refer to certification report for approvals details	
	К	240 Vac; 277 (Apply to recognised products)		Refer to certification report for approvals details	S	120 / 240 Vac, 240 Vac or 240 / (Apply to listed multipole pro	415 Vac	Refer to certification report for approvals details	
	М	AC & DC Application f units (80 Vdc, 240 Vac Vac & 277 / 480	c, 240 / 415	Refer to certification report for approvals details	V	60 Vdc		No trip alarm, No mid-trip	
	W	277 Vac (Applicable to pole product		Refer to certification report for approvals details					

^{*} Note: For UL508 the connection of the DD Frame with screw terminals shall be made with listed (ZMVV/7) wire connectors (eyelet type, not insulated, with maximum width 9,5 mm) and crimped with the appropriate crimp tool.



DD-Frame Series Circuit Breakers Ordering Information

Group 8:	Code	Description	System	Pulse Tolerance (X In)	Code	Description	System	Pulse Tolerance (X In)	
Time Delay	AD	Long delay 50 / 60 Hz	AC and DC	8 - 10	CH	Short delay 50 / 60 Hz	AC	12 - 15	
Characteristics (Pulse Tolerance @ 10 ms)	BD	AS & Dual rated Medium delay 50 / 60 Hz	AC and DC	8 - 10	AS	CS & high inrush Long delay 50 / 60 Hz	AC or DC	8 - 10	
		BS & Dual rated Short delay 50 / 60 Hz							
	CD	CS & Dual rated Long delay 50 / 60 Hz	AC and DC	6 - 8	BS	Medium delay 50 / 60 Hz	AC or DC	8 - 10	
	AE	AH & inertia delay	AC	28 - 35	CS	Short delay 50 / 60 Hz	AC or DC	6 - 8	
	BE	Medium delay 50 / 60 Hz BH & inertia delay	AC	28 - 35	AW	Long delay 50 / 60 Hz AD & inertia delay	AC and DC	16 - 20	
	CE	Short delay 50 / 60 Hz CH & inertia delay	AC	28 - 35	BW	Medium delay 50 / 60 Hz BD & inertia delay	AC and DC	16 - 20	
	AI	Long delay 50 / 60 Hz AS & inertia delay	AC or DC	16 - 20	CW	Short delay 50 / 60 Hz CD & inertia delay	AC and DC	12 - 15	
	ВІ	Medium delay 50 / 60 Hz BS & inertia delay	AC or DC	16 - 20	H3	Short delay	DC	6 - 8	
	CI	Short delay 50 / 60 Hz CS & inertia delay	AC or DC	12 - 15	OP	Instantaneous trip 50 / 60 Hz	AC or DC	None	
	AH	Long delay 50 / 60 Hz AS & high inrush	AC	16 - 20	ОХ	Switch 50 / 60 Hz	AC and DC		
	ВН	Medium delay 50 / 60 Hz BS & high inrush	AC	16 - 20					
Group 9: Main Circuit	Code		Description			Commo	ents		
Current	XXXX	No current	t, for voltage trip	poles	Refer to p	page 3 for specific amp ratings in		th the relevant approvals	
			.1 A to 400 A			and test re	<u> </u>		
Group 10: Circuit	Code		Description Switch			Commo	ents		
Configuration	BX	Circuit Breaker (S		ent Sensing)					
(Circuit Breaker's Internal	DX	Switch Relay Trip Voltages Snsing			nal) Select the type of termination on Group 13				
Construction)	GX	Circuit Breaker with Dual Control - to Load	Shunt Trip Cons Side (3 Termina		al Close Circuit breaker to handle main current, secondary coil actival Select type of termination on Group 13				
	H1	Circuit Breaker with Dual Control - Trip - Auxili	Relay Trip Cons ary Switch (4 ter		Relay To be used in combination with Group 13, Code D (Flying Le				
	HX	Circuit Breaker with Dual Con			Select the type of termination on Group 13				
	KX		ker with Auxiliary			Handle was to Mid waint.		, trian and	
	LA LB	Circuit Breaker with I	ker with Mid Trip		Handle goes to Mid-point when electrically tripped Handle goes to Mid-point when electrically tripped				
	LX	Circuit Breaker with	<u> </u>		Han	dle goes to Mid-point when electr			
	MX	Circuit Breaker wit		NO Mid Trip		Handle goes to OFF position when		·	
Group 11:	Code		Description	1960)		Comme	ents		
Auxiliary and Alarm Switches Types & Options	А	DB3-Gold Tips, Equally 9 - EN 61058 0.1 A @ 250 Va			AUX SWITCH NOT AVAILABLE ON RAIL MOUNT-NO LINKS				
(Refer to	В	DB2-Silver Tips, Equally - EN 61058 10 A @ 250 Va			AUX SWITCH NOT AVAILABLE ON RAIL MOUNT-NO LINKS				
Aux switch specification on	С	V4D - Silver Tips, Offset Termi	nals, 4.75mm (0.	189") - (10 A @ 250 Vac)		AUX SWITCH NOT AVAILABLE	ON RAIL MOU	NT-NO LINKS	
page 3)	К	DB2-Silver Tips, Equally - EN 61058 10 A @ 250 Va @ - OPTION K REVERSED Micross Breaker to the C (Cor	ic & 0.1 A @ 80 \ 125 / 250 Vac) witch - Link from	/dc and UL 1054 10 A the Load Side of the Circuit		REVERSED Microswitch - Link f (Common) contact of the Aux Swi			
	L	V4D - Silver Tips, Offset Termi - OPTION L - Link from the Lo	nals, 4.75 mm (0	.189") - (10A @ 250 Vac) circuit Breaker to the NC	Option L -	Link from the Load Side of the Ci contact of the Aux Switch. Aux S	rcuit Breaker to witch terminal	the NC (Normally Close) NOT cropped.	
	М	Parallel Bridge Housin	ng - For all Parall	el Bridged Poles		Use M for ALL Paralle	l Bridged Produ	ucts	
	N	DB2-Silver Tips, Equally Spaced Terminals, 2.75 mm (0.108") - EN61058 10 A @ 250 Vac & 0.1 A @ 80 Vdc and UL 1054 10 A @ 125 / 250 Vac) - OPTION N - Link from the Load Side of the Circuit Breaker to the NC (Normally Close).				Option N - Link from the Load Side of the Circuit Breaker to the NC (Normally Close). Aux Switch terminal NOT cropped.			
	Р	DB2-Silver Tips, Equally Spaced Terminals, 2.75 mm (0.108") - EN61058 10 A @ 250 Vac & 0.1 A @ 80 Vdc and UL 1054 10 A @ 125/ 250 Vac) - OPTION A - REVERSED Microswitch - Link from the Load Side of the CB to the C (common) contact of the Aux Switch. NC Cropped			Option A -REVERSED Microswitch - Link from the Load Side of the Circuit Breake				
	R	DB2-Silver Tips, Equally Spaced Terminals, 2.75 mm (0.108") - EN61058 10 A @ 250 Vac & 0.1 A @ 80 Vdc and UL 1054 10 A @ 125 / 250 Vac) - OPTION I - Link from the Load Side of the Circuit Breaker to the NO (Normally Open) contact of the Aux Switch. CUSTOMER SPECIFIC			Option I - Link from the Load Side of the Circuit Breaker to the NO (Normally Open contact of the Aux Switch. Aux NC (Normally Closed) Terminal cropped. Special Microswitch housing				
	V	DB2-Silver Tips, Equally Spaced Terminals, 2.75 mm (0.108") -EN 61058 10 A @ 250 Vac & 0.1 A @ 80 Vdc and UL 1054 10 A @ 125 / 250 Vac) - OPTION V - Link from the Load Side of the Circuit Breaker to the NO (marked NC on housing) contact of the Aux Switch. CUSTOMER SPECIFIC				Option V - Link from the Load Side of the Circuit Breaker to the NO (Normally Open contact of the Aux Switch. Micro switch housing "NO" position marked as "NC". Aux NC (Normally Closed) Terminal cropped. Special Microswitch housing			
	Х		ot Applicable						



DD-Frame Series Circuit Breakers Ordering Information

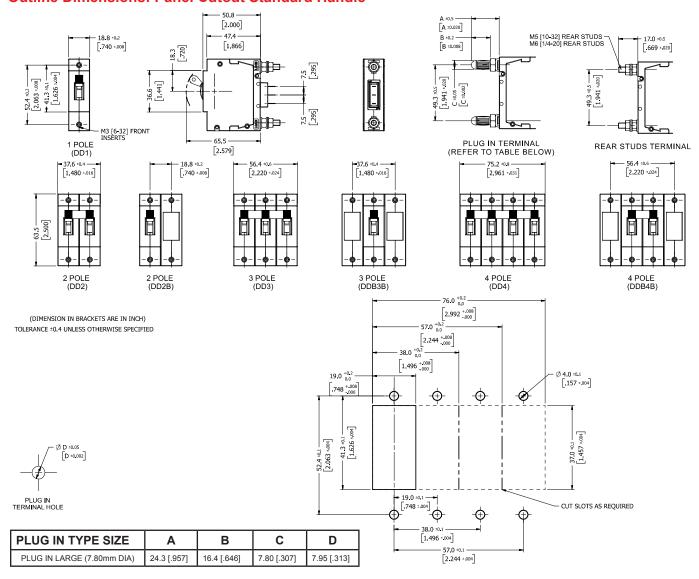
Group 12:	Code	Description	Code	Description	Code	Description	Code	Description
Voltage and	XX	Not applicable	A3	65 Vac 50 / 60 Hz	B0	12 Vdc	B3	80 Vdc
Current Ratings for Dual Control, Shunt and Relay	A1	12 Vac 50 / 60 Hz	A4	110 - 125 Vac 50 / 60 Hz	B1	24 Vdc	-	pulse duration:
Trip Construction	A2	24 Vac 50 / 60 Hz	A5	220 - 240 Vac 50 / 60 Hz	B2	48 Vdc	20 ms	to 40 ms
Group 13:	Code		Description				Comments	
Terminal Options	X		Not Applicable					
for Dual Control, Shunt and Relay	В	Screw T	erminals M5 OR	10 - 32	On	lv available with Flus	h Rear Screw Terminal	Group 5. Code D
Coils	C		Terminals (0.8 m			.,		
	D			· · · · · · · · · · · · · · · · · · ·				
			Leads (wire term	,		<u>, </u>		
	E	Stud I	erminals (M5 / 10) - 32)				
Group 14:	Code		Description			<u></u>	Comments	<u> </u>
	X		Future use					
Group 15:	Code		Description					
Customer Specific	X		Not applicable					
	S	Custo	omer Specific Pro	duct				
Group 16:	Code		Description				Comments	
Handle Colour	В	BLACK HA	ANDLE, WHITE M	IARKING.		Black Colour Not av	ailable on the Two Tone	Flush Rocker
	G	GREEN HANDLE, WHITE MAR BLACK HANDLE, G		OR AND MARKING			Refer to Group 4	
	R	RED HANDLE, WHITE MARK BLACK HANDLE,	KING (Used with 0	Code H or Q on group 4) OR R AND MARKING			Refer to Group 4	
	W	WHITE HANDLE, BLACK MAR BLACK HANDLE, V	RKING (Used with	n Code H or Q on group 4) OR DR AND MARKING			Refer to Group 4	
	X	(0000 1111111 0000	Not Applicable	p : ::::e :e::e/		For re	educed handle version	
	Y	BLACK HANDLE, YE	ELLOW HANDLE, WHITE MARKING (Used with Code H or Q on group 4) OR BLACK HANDLE, YELLOW INDICATOR AND MARKING (Used with Code M or R ON group 4 - Two Tone)				Refer to Group 4	
Group 17:	Code	Description					Comments	
Handle Markings	D	I - O / ON - OFF						
	Н		I - OFF and AMP	DATING		Standard mar	king for a Flush Rocker	Handla
	П					Stanuaru man	king for a Flush Rocker	nanule
	I	ON - I marked on Functional marked (on non-functional		Group 3, Code S Only. Use with Group 4, Code R or Q.			
	J	ON - I marked on functional h non-functional handle. Special a	agreement betwe			Use wit	oup 3, Code S Only. h Group 4, Code R or Q between manufacture a	
	Х		Not Applicable					
Group 18: Mounting	Code		Description				Comments	
Orientation for Marking	1		t - normal horizon	ntal				
	V		normal horizontal					
	2	Breaker mounted in Horizontal Axis with LINE at the RIGHT HAND SIDE, Marking reads left to right - normal horizontal Breaker mounted in Horizontal Axis with LINE at the LEFT HAND SIDE,						
	Н		left to right - norr					
	Х		Not Applicable					
Group 19:	Code		Description				Comments	
Marking and Test Button	1	Standard Marking, Sta	andard Toggle Ha	ndle, with Test Button		Only av	Handle option fitted wit ailable on a Single Pole	
	2		Rocker Handle,		Applicable to Rocker handle , Use with Group 4, Codes H, M, Q and R			
	A	Standard Mark	ing on Standard	Toggle Handle	Applicable to the Standard Toggle Handle			
	В	No Markir	ng for Pole withou	ıt Handle			all the poles without hank poles, reduced hand	
Group 20:	Code	Description		Comments	Code	De	escription	Comments
Inter-phase Barrier and Terminal	Х	Not applicable			А	Inter-pha	se barrier - small	Inter-phase barriers
Cover	1	Terminal cover(s)			В	Inter-pha	se barrier - large	and terminal covers may be required for
	2	Terminal cover(s)			С	Inter-phase	parrier - Z type large	multi-pole products with UL listed and UL
	3	Inter-phase barrier & terminal o	-		D	Inter-phase b	parrier - Z type small	recognised approvals. See DD-Frame Technical Guide.
	4	Inter-phase barrier & terminal co	over - Z type					- I Suite Suite.



DD-Frame Series Circuit Breakers Ordering Information

Group 21:	Code	Description	Comments
Approvals (Product Normally	1	UL recognised UL 1077, CUR, IEC / EN 60934, CE, UKCA	Normally certified to these specifications
Approved to)	2	UL listed UL 489, CUL, IEC / EN 60947 - 2, CE, UKCA	Normally certified to these specifications
	3	UL listed UL 489A, IEC / EN 60947 - 2, CE, UKCA	Normally certified to these specifications
Group 22:	Code	Description	Comments
Safety Marks	Х	Not applicable	
	С	GB 14048.2 / GB 17701, CCC	

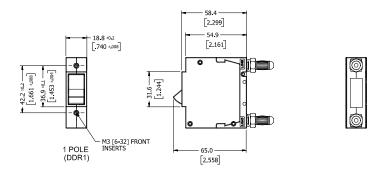
Outline Dimensions: Panel Cutout Standard Handle

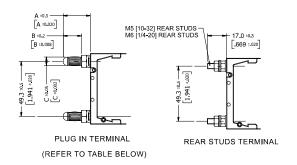


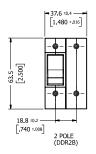
^{*} Other plug-in version available on special request up to 80 A

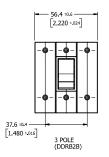


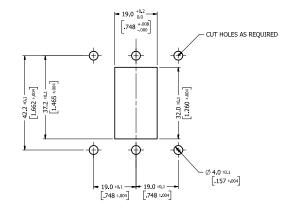
Outline Dimensions: Panel Cutout Rocker Handle













PLUG IN TYPE SIZE	Α	В	С	D
PLUG IN LARGE (7.80mm DIA)	24.3 [.957]	16.4 [.646]	7.80 [.307]	7.95 [.313]

* Other plug-in version available on special request up to 80 A

TOLERANCE ±0.4 UNLESS OTHERWISE SPECIFIED (DIMENSION IN BRACKETS ARE IN INCH)

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DD-SERIES-DAT REV. K **JULY 2024** 2407019