









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 UL1077 and UL508, and listed to UL489 and UL489A. Compliant with AS / NZS 60947-2.

















(UL489A)

(UL489; (UL1077; CSA C22.2 NO.5) CSA C22.2 NO.235-04) (CSA C22.2 No. 5-16) (IEC / EN 60947-2; (GB14048.2; IEC / EN 60934) GB17701)

(IEC 60947-2; IEC 60934) (IEC 60947-2)

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



#### **Features**

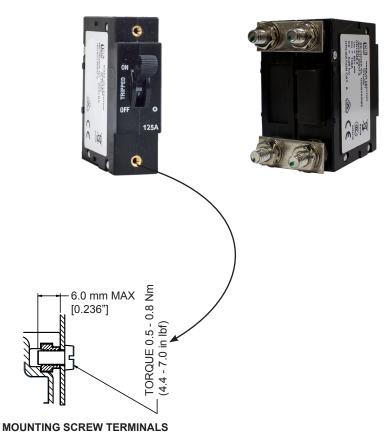
- · AC and DC circuit breaker
- · Hydraulic-magnetic technology
- 100% rating capability independent of ambient temperature
- Up to six poles
- VDE, EAC and CCC approved, CE certified
- UL compliant (Listed / recognised)
- Ratings 0.1 A to 100 Aac and 400 Adc (Specific certifications)
- Precision tripping 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 (IEC60947-2 Clause 7.2.4.2)* 1000 operations DC, 6000 operations AC (IEC60934 Clause 9.11)* 10000 operations; 6000 with current, 4000 without current (UL489 Clause 7.1.5)* As per UL 489 or minimum of 1000 operations with current (UL489 A Clause 12)* 6000 operations with current (UL1077 Clause 22)*				
Dielectric Strength	1000 - 2000 Vac for one minute (IEC60947-2 Clause 8.3.3.3, IEC60934 Clause 9.7)* 1000 Vac plus twice the rated voltage for one minute (UL489 Clause 7.1.9, UL489A Clause 8, UL1077 Clause 23)*				
Rated Impulse Withstand Voltage	4 kV (IEC60947-2 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, GB14048.2, CE, UKCA	IEC / EN 60947-2, GB14048.2, CE, UKCA	IEC60947-2, CE, UKCA	AS/NZS 60947-2, IEC60947-2, 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 - 400 A	125 A, 250 A, 300 A	0.1 - 60 A
Ics	5 kA (DC),1.25kA (AC),	5 kA	2.5kA	2.5kA
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 UL489		UL489 A, CSA C22.2 No. 5 -16	UL489 A, CSA C22.2 No. 5 -16
Number of Poles	1, 2, 3	1, 2 - 3 (parallel)	2 - 5 (parallel)
Maximum Voltages	120 Vac, 120 / 240 Vac, 240 Vac, 80 Vdc	60 Vdc	80 Vdc
Current Ratings	0.1 - 80 A(ac) 0.1 - 100 A(dc)	125 A, 250 A, 300 A	110 - 400 A
AIC	AC - 10 kA, DC - 20 kA	14 kA	20 kA

Product Type	Circuit Breaker	Circuit Breaker	Switch	Switch
Approvals	IEC / EN 60934, CE, GB17701, UKCA	UL1077, cURus	UL508	IEC / EN 60947-3, CE
Number of Poles	1 - 4	1 - 6	1, 2	1, 2
Maximum Voltages	240 / 415 Vac, 80 Vdc	277 / 480 Vac, 80 Vdc	120/240 Vac, 80 Vdc	240 Vac
Current Ratings	0.1 A - 100 A (1 p), 0.1 A - 70 A (2 - 3 p)	.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	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					
Silver DB2	EN61058 10 A @ 250 Vac & 0.1 A @ 80 Vdc and UL1054 10 A @ 125/250 Vac					
Silver V4D	EN61058-1 10 A @ 250 Vac					

### **Torque Table**

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

# DD-Frame Series Circuit Breakers Ordering Information

Group 1:	Code		Descr	ription		Comme	nts		
Frame	D			rame					
Group 2:	Code		Desci	ription		Comme	nts		
Type	2		DD-Frame	e, DD-Type					
Group 3:	Code			ription		Comments			
Mounting	А	Front Mount, Re	ctangular Ape	rture - Standard Toggle Handle	Max	kimum penetration depth into the pro-	duct by the mo	ounting screw is 6mm	
	G			rface mount		DIN and mini rail and surface mount	(Auxiliary swi	tch not available)	
	S	Front Mount, F	tectangular Ap	erture - Flush Rocker Handle	Maximum penetration depth into the product by the mounting screw is 6mm				
Group 4:	Code		Desci	ription		Comme	nts		
Handle Type or	2	Sta	andard Toggle	Handle - Mid Trip		Standard Toggle Handle, NO	OT Available o	n 60V dc	
Blank for Reduced Handle	Α		Standard To	oggle Handle		Standard Toggle Handle, goes to	o Off Position	when tripped	
rtoudoca Harraro	С		Cut off	Handle		Available on sing	le pole only		
	Н	Flu	ısh Rocker Ha	ndle (100 A Max)		Use with Group 3, code S. Reduce	d Handle up to	three pole only	
	М	Flush Ro	ocker Handle -	Two Tone (100 A Max)		Use with Group 3, code S. Reduce	d Handle up to	three pole only	
	Q	Use lest button to switch OFF.				Use with Group 3, code S. Reduce	d Handle up to	three pole only	
	R Flush rocker handle, Push to Reset- Two Tone (100 A Max); Use Test button to switch OFF.				Use with Group 3, code S. Reduced Handle up to 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	Plug-in (bullet) terminal (Ø 7.80 mm X 21.5 mm)			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 of	Double quick connect M3.5 terminal (6.35 mm X 0.8 mm)			50 A max per	terminal		
	AX		Stud terminals	s, 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 termi	nal, top & bott	om for mounting version G	30 A max. For rail mounting 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	E	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	80 Vdc			
Main Circuit	J	120 Vac; 240 Vac; 240 Apply to listed single po		Refer to certification report for approvals details	R	R 277 / 480 Vac report for a		Refer to certification report for approvals details	
	К	240 Vac; 277 V (Apply to recognised products)	/ac single pole	Refer to certification report for approvals details	S	120 / 240 Vac, 240 Vac or 240 (Apply to listed multipole pro		Refer to certification report for approvals details	
	М	AC & DC Application for units (80 Vdc, 240 Vac Vac & 277 / 480	, 240 / 415	Refer to certification report for approvals details	٧	60 Vdc		No trip alarm, No mid-trip	

<sup>\*</sup> 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	Systom	Pulse Tolerance (X In)
Time Delay Characteristics	AD	Long delay 50 / 60 Hz	AC and DC	8 - 10	Code	Short delay 50 / 60 Hz	System	12 - 15
(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
	CD	BS & Dual rated Short delay 50 / 60 Hz CS & Dual rated	AC and DC	6 - 8	BS	Medium delay 50 / 60 Hz	AC or DC	8 - 10
	AE	Long delay 50 / 60 Hz 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
	Al	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	НЗ	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:	Code		Description			Comm	ents	
Main Circuit Current	XXXX	No current	, for voltage trip	poles				
Sallein	100		1 A			Specific A rating possib	le from 0.1 A –	400 A
	1000 K400		10 A 400 A			,		
Group 10:	Code		Description		Comments			
Circuit	AX		Switch			30	••	
Configuration (Circuit Breaker's	BX	Circuit Breaker (\$	ent Sensing)					
Internal	DX	Switch Relay Trip Voltages Snsing		Select the type of term	,	•		
Construction)	GX to Load Side (3 Terminal)				Circuit	t breaker to handle main current, Select type of termin		
	H1	Circuit Breaker with Dual Control - Relay Trip Construction - Fly Leads for Relay Trip - Auxiliary Switch (4 terminal)			To be used in combination with Group 13, Code D (Flying Leads)			D (Flying Leads)
	HX	Circuit Breaker with Dual Con			Select the type of termination on Group 13			
	LA	Circuit Breaker with Auxiliary Switch Circuit Breaker with Mid Trip Handle			Handle goes to Mid-point when electrically tripped			v tripped
	LB	Circuit Breaker with Mid Trip Handle AND Aux Switch				Handle goes to Mid-point		
	LX	Circuit Breaker with Mid Trip Handle AND Trip Alarm			Han	dle goes to Mid-point when electr		
	MX	Circuit Breaker with Trip Alarm, but NO Mid Trip (Reversed Function - Latch Type)				Handle goes to OFF position when tripped and send a Trip Alarm		
Group 11:	Code	, i	Description		Comments			
Auxiliary and Alarm Switches Types & Options	А	DB3-Gold Tips, Equally 9 - EN61058 0.1 A @ 250 Va				AUX SWITCH NOT AVAILABLE	ON RAIL MOU	INT-NO LINKS
(Refer to	В	DB2-Silver Tips, Equally - EN61058 10 A @ 250 Va	•	. ,		AUX SWITCH NOT AVAILABLE	ON RAIL MOU	INT-NO LINKS
Aux switch specification on	С	V4D - Silver Tips, Offset Term			AUX SWITCH NOT AVAILABLE ON RAIL MOUNT-NO LINKS			
page 3)	к	- OPTION K REVERSED Micros	c & 0.1 A @ 80 \ 125/ 250 Vac) witch - Link from	/dc and UL1054 10 A the Load Side of the Circuit	Option K - to the C (	REVERSED Microswitch - Link f (Common) contact of the Aux Sw	from the Load S itch. Aux Switch	Side of the Circuit Breaker n terminal NOT cropped.
	L	Breaker to the C (Cor V4D - Silver Tips, Offset Termi - OPTION L - Link from the Li (Normally Close	nals, 4.75 mm (0	.189") - (10A @ 250 Vac) Circuit Breaker to the NC	Option L - Link from the Load Side of the Circuit Breaker to the NC (Normally Close) contact of the Aux Switch. Aux Switch terminal NOT cropped.			
	M	Parallel Bridge Housin			Use M for ALL Parallel Bridged Products			ucts
	N	DB2-Silver Tips, Equally Spaced Terminals, 2.75 mm (0.108") - EN61058 10 A @ 250 Vac & 0.1 A @ 80 Vdc and UL1054 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 UL1054 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 Breaker			
	R	DB2-Silver Tips, Equally Spaced @ 250 Vac & 0.1 A @ 80 V - OPTION I - Link from the Lo (Normally Open) contact of t	dc and UL1054 1 oad Side of the C	10 A @ 125 / 250 Vac) ircuit Breaker to the NO	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		c and UL1054 10 oad Side of the C sing) contact of the OMER SPECIFIC	0 A @ 125 / 250 Vac) Circuit Breaker to the NO the Aux Switch.	contact	Link from the Load Side of the C of the Aux Switch. Micro switch h NC (Normally Closed) Terminal cr	ousing "NO" po	osition marked as "NC".
	X	N	ot Applicable					



# **DD-Frame Series Circuit Breakers Ordering Information**

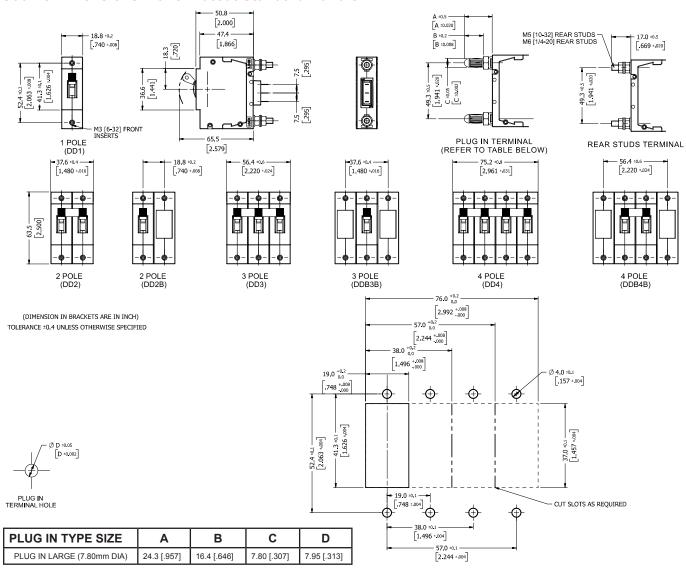
Group 12:	Code	Description	Code	Description	Code	Description	Code	Description	
Voltage and	XX	Not applicable	A3	65 Vac 50 / 60 Hz	B0	12 Vdc	B3	80 Vdc	
Current Ratings for Dual Control, Shunt and Relay	A1	12 Vac 50 / 60 Hz	A4	110 - 125 Vac 50 / 60 Hz	B1	24 Vdc		d pulse duration:	
Trip Construction	A2	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 for Dual Control,	Х		Not Applicable						
Shunt and Relay	В	Screw	Terminals M5 OR	10 - 32	Only available with Flush Rear Screw Terminal Group 5, Code D				
Coils	С	Quick Conne	ct Terminals (0.8 m	ım x 6.35 mm)					
	D	Flyin	g Leads (wire term	inals)					
	E	Stud	Terminals (M5 / 10	) - 32)					
Group 14:	Code		Description				Comments		
	X		Future use						
Group 15:	Code		Description						
Customer Specific	X		Not applicable						
	S	Cus	stomer Specific Pro	duct					
Group 16:	Code		Description				Comments		
Handle Colour	В	BLACK H	HANDLE, WHITE N	IARKING.		Black Colour Not ava	ailable on the Two Tone	Flush Rocker	
	G	BLACK HANDLE,	N HANDLE, WHITE MARKING (Used with Code H or Q on group 4) OR BLACK HANDLE, GREEN INDICATOR AND MARKING (Used with Code M or R ON group 4 - Two Tone)				Refer to Group 4		
	R	BLACK HANDLE	RED HANDLE, WHITE MARKING (Used with Code H or Q on group 4) OR BLACK HANDLE, RED INDICATOR AND MARKING (Used with Code M or R ON group 4 - Two Tone)				Refer to Group 4		
	W	BLACK HANDLE,	ARKING (Used with , WHITE INDICATO de M or R ON grou		Refer to Group 4				
	X	Not Applicable				For reduced handle version			
	Υ	BLACK HANDLE,	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)			OR Refer to Group 4			
Group 17:	Code	Description					Comments		
Handle Markings	D		I - O / ON - OFF						
	Н	I - O / ON - OFF and AMP RATING				Standard mar	king for a Flush Rocker	Handle	
	I		al handle ,PUSH TO d on non-functional	O RESET and AMP RATING handle	Group 3, Code S Only. Use with Group 4, Code R or Q.				
	X		Not Applicable						
Group 18:	Code		Description				Comments		
Mounting Orientation for Marking	1		ris with LINE at the ght - normal horizor	BOTTOM, Marking reads left to ntal					
	V		- normal horizonta						
	2	Marking read	ds left to right - norr						
	Н		ds left to right - norr	E at the LEFT HAND SIDE, mal horizontal					
Group 19:	X Code		Not Applicable				Commonto		
Group 19: Front Plate	Code		Description			Applicable to Ctar-1	Comments	th a took hutton	
Marking and Test Button	1			ndle, with Test Button	Applicable to Standard Handle option fitted with a test button. Only available on a Single Pole  Applicable to Rocker handle, Use with Group 4, Codes H, M, Q and R			e	
	2		g, Rocker Handle,		Appli				
	A	Standard Ma	rking on Standard	roggie Handie			the Standard Toggle F		
	В	No Mark	king for Pole withou	it Handle			all the poles without ha		
Group 20:	Code	Description		Comments	Code		escription	Comments	
Inter-phase Barrier and Terminal	X	Not applicable			А		se barrier - small	Inter-phase barriers	
Cover	1	Terminal cover(s	s)		В	Inter-pha	se barrier - large	and terminal covers	
	2	Terminal cover(s			С		barrier - Z type large	may be required for multi-pole products with UL listed and UL	
	3	Inter-phase barrier & termina	I cover - large		D	Inter-phase t	parrier - Z type small	recognised approvals. See DD-Frame	
	4	Inter-phase barrier & terminal	cover - Z type					Technical Guide.	



# **DD-Frame Series Circuit Breakers Ordering Information**

Group 21:	Code	Description	Comments			
Approvals (Product Normally	1	UL recognised UL1077, CUR, IEC / EN60934, CE, UKCA	Normally certified to these specifications			
Approved to)	2	UL listed UL489, CUL, IEC / EN60947 - 2, CE, UKCA	Normally certified to these specifications			
	3	UL listed UL489A, IEC / EN60947 - 2, CE, UKCA	Normally certified to these specifications			
Group 22:	Code	Description	Comments			
Safety Marks	Х	Not applicable				
	С	GB14048.2 / GB 17701, CCC				

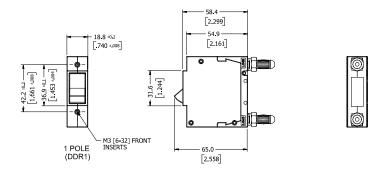
### **Outline Dimensions: Panel Cutout Standard Handle**

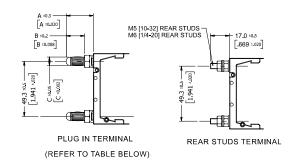


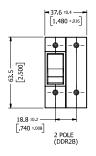
<sup>\*</sup> Other plug-in version available on special request up to 80 A

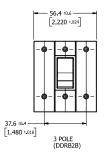


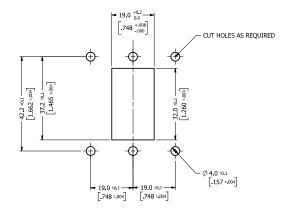
#### **Outline Dimensions: Panel Cutout Rocker Handle**













PLUG IN TERMINAL HOLE

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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