HBi electric
North America

Corporate Profile and Selection Chart

About CBI Breakers

- Our executive team in Exton Pennsylvania manages distribution for the North, Central and South American regions
- We have 26 authorized distribution partners strategically located across the USA, Canada and Mexico
- Warehousing and logistical support is managed from our West Chester, PA warehouse
- Circuit breakers are complex. Our seasoned Regional Sales team has over 100 years combined experience in circuit protection to assist in the proper selection of circuit protection and motor control products
- We have earned a reputation for dedicated customer service, promptly assisting with orders, expediting and shipments
- Our ISO9001 accredited production facility in Africa employs over 2000 people dedicated to engineering design, service and delivery in a timely manner
- CBI-electic has international sales offices in Africa, Asia, Australia and Europe

World-class Engineering

CBI-electric have been designing and manufacturing hydraulic-magnetic circuit breakers for over 73 years, originally part of Heinemann Electric Company, a New Jersey based company who began operations in South Africa in 1949.

CBI products include such as Miniature Circuit Breakers (MCBs), Molded Case Circuit Breakers (MCCBs), wiring accessories, and specialized application Circuit Breakers. CBI-electric low voltage - previously known as Circuit Breaker Industries or CBI - has its production facility in Johannesburg, South Africa.

Over the past 10 years, CBI-electric low voltage has established itself as a supplier of world-class products and solutions to niche markets globally. The majority of our production output is exported. Our products hold safety approvals from the EU, Germany, Russia, Ukraine, China, Japan and the United States of America. Export markets are serviced by fully staffed offices in the United States of America, Germany and Australia.

With an exciting background of groundbreaking achievements, CBI-electric: low voltage has prospered for more than five decades to become a leader in the design, development, and manufacture of circuit breakers. CBI supplies products for power distribution in OEM production, residential, commercial, industrial and mining.

CBI Milestones

Previously known as Circuit Breaker Industries, CBI is a supplier of quality electrical distribution, protection and control equipment. The foundations of CBI were established in 1949 as a joint venture within the Heinemann Electric Company in Trenton, New Jersey, USA.

After a merger with Fuchs Electrical Industry during 1986, a new company called Circuit Breaker Industries was created. CBI is fully owned by Reunert, which is a listed public company focused on electrical engineering, information communication technologies and applied electronics.

Selection Chart:

Moulded Case Circuit Breakers

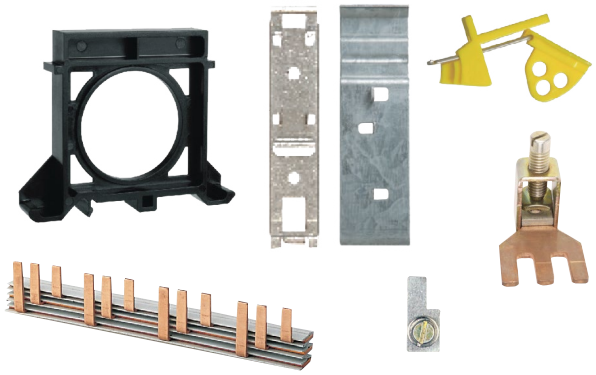
Type(width)		J Frame		L Frame	
		JS25	J25S	L20B	L40B
Appearance					
Poles		1 pole	3 pole	3 pole	3 pole
Current Amps (Min to Max)	AC	20 - 250 A	80 - 250 A	100 - 600 A	
	DC	80 - 250 A	300 - 750 A	800, 1500 A 1200 A (Switch)	-
Interrupting Capacity	AC	25 kA @ 240 V	25 kA @ 415 V, 15 kA @ 525 V	20 kA @ 415 V	40 kA @ 415 V
	DC	20 kA @ 80 V	20 kA @ 80 V	20 kA @ 125 V	40 kA @ 125 V
Termination		G1 terminal (lug)	G1 terminal (lug)	G1 terminal (lug)	G1 terminal (lug)
		G4B terminal (stub busbar)	G4B terminal (stub busbar)	G4B terminal (stub busbar)	G4B terminal (stub busbar)
		G5 tandem box terminal	G5 tandem box terminal	G6 rear connecting studs	G6 rear connecting studs
		G7 rear connecting studs	G7 rear connecting studs	-	-
Accessories		Shunt Trip	Shunt Trip	Shunt Trip	Shunt Trip
		Undervoltage Release	Undervoltage Release	-	-
		Auxiliary Switch	Auxiliary Switch	Auxiliary Switch	Auxiliary Switch
		Trip Alarm	Trip Alarm	Trip Alarm	Trip Alarm
		Cylindrical Lock	Cylindrical Lock	Cylindrical Lock	Cylindrical Lock
		Daros Rotary Handle	Daros Rotary Handle	Daros Rotary Handle	Daros Rotary Handle
		Phase Barriers	Phase Barriers	Phase Barriers	Phase Barriers
		Terminal Covers	Terminal Covers	-	-
Approvals and Markings [1] Note: Check certification for specific requirements		(IEC / EN 60947-2 [1] IEC / EN 60947-3) [1] SANS 60947-2 SANS 60947-3 CE	(IEC / EN 60947-2, IEC / EN 60947-3) [1] SANS 60947-2 SANS 60947-3 (UL 489A) CE UK CA	(IEC / EN 60947-2, IEC / EN 60947-3) [1] SANS 60947-2 SANS 60947-3 (UL 489A) CE UK CA	(IEC / EN 60947-2, IEC / EN 60947-3) [1] SANS 60947-2 SANS 60947-3 CE UK CA

Notes:

Switch version available

1 Check certification for specific requirements

MCB Accessories



PRODUCT	Busbar single phase	Busbar three phase insulated	Safety blanks	Escutcheon blanks	Handle lock	Shrouds	Surface mounting	Auxiliary Switch	Trip Alarm	Trip Alarm / Auxiliary Switch Combinations	Shunt Trip
QA-(13)	✓	✓	✓	✓	✓	✓	✓				
QA-S-(13)	✓	✓	✓	✓	✓	✓	✓				
QA17A			✓	✓	✓	✓	✓				
QA17C			✓	✓	✓	✓	✓				
QF-(13)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QF-S-(13)	✓	✓	✓	✓	✓	✓	✓				
QF17A			✓	✓	✓	✓	✓	✓	✓	✓	
QF17C			✓	✓	✓	✓	✓	✓		✓	
QF-(13)-D	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QF-S-(13)-D	✓	✓	✓	✓	✓	✓	✓				
QF14A-C			✓	✓	✓	✓	✓	✓	✓	✓	
QF14C-D			✓	✓	✓	✓	✓	✓	✓	✓	
QF-(18)-D	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
QF-(19)	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
QF-(26)	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
QF-(26)-D	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
QL-(13)	✓		✓	✓	✓	✓	✓	✓			
QY-(13)			✓	✓	✓	✓		✓			
QZ-(13)	✓	✓	✓	✓	✓	✓	✓	✓			

Selection Chart:

Front Mounted Circuit Breakers

Type	B Frame	C Frame MKII	C Frame MKIV	C Frame MKV	DD Frame
Appearance					
Current@, Voltage and kA Rating	0.1 to 30 A @ 240 Vac, 1 kA	0.1 to 30 A @ 240 / 277 Vac, 3 kA	0.05 to 20 A @ 120 Vac, 120 / 240 Vac, 5 kA 0.05 to 20 A @ 240 Vac	1 to 20 A @ 240 Vac, 5 kA	0.1 to 80 A @ 120 / 240 Vac, AIC 10 kA
	0.1 to 25 A @ 65 Vdc, 0.5 kA	0.1 to 30 A @ 65 Vdc, 1 kA	0.05 to 50 A @ 80 Vdc, 5 kA	1 to 20 A @ 240 Vac, 10 kA	0.1 to 100 A @ 80 Vdc, AIC 10 kA
	0.1 to 30 A @ 80 Vdc, 0.6 kA Polarized	0.1 to 30 A @ 30 Vdc, 5 kA	0.05 to 50 A @ 240 / 277 Vac, 2 kA	-	0.1 to 60 A @ 240 / 415 Vac, 5 kA
	0.1 to 30 A @ 65 Vdc, 1.5 kA Polarized	-	0.05 to 50 A @ 80 Vdc, 7.5 kA	-	0.1 to 100 A @ 80 Vdc, 10 kA
	15 A @ 300 Vdc switch	-	50 A @ 240 Vac, 2 kA	-	125 A, 250 A, 300 A @ 60 Vdc @ 5 kA
	-	-	50 A @ 80 Vdc, 4 kA	-	110 to 400 A @ 80 Vdc, AIC 10 kA, Parallel
	-	-	50 A @ 120 / 240 Vac, 1.5 kA	-	0.1 to 100 A @ 240 Vac, 3 kA
	-	-	50 A @ 65 Vdc, 1.5 kA	-	0.1 to 70 A @ 415 Vac, 3 kA
	-	-	50 A @ 240 / 277 Vac (switch)	-	0.1 to 70 A @ 277 / 480 Vac, 2 kA
	-	-	50 A @ 80 Vdc (switch)	-	0.1 to 80 A @ 100 Vdc, 5 kA
					50 A @ 120 / 240 Vac, 240 Vac, 0.6 kA (for 1 switch)
Poles	1, 2	1, 2, 3	1, 2, 3, 4	1, 2,	1, 2, 3, 4, 5, 6
Internal Circuit	Ciruit breaker (Series trip, current coil in series)	Ciruit breaker (Series trip, current coil in series)	Ciruit breaker (Series trip, current coil in series)	Ciruit breaker (Series trip, current coil in series)	Circuit breaker (current sensing series trip)
	Switch - Relay trip (voltage sensing) 4 terminal	-	Switch - Relay trip (voltage sensing) 4 terminal	-	Switch with relay trip (current / voltage sensing) 4 terminal
	-	-	Switch	-	Circuit breaker with dual control (shunt trip construction) 4 terminal
	-	-	-	-	Circuit breaker with dual control (relay trip construction) 3 terminal
	-	-	-	-	Circuit breaker with auxiliary switch
	-	-	-	-	Circuit breaker with mid trip handle
Mounting	Centre lock (thread neck)	Front mount, Round aperture	Front mount	Front mount, Rectangular aperture	Front mount rectangular aperture
	Snap-in vertical / horizontal mounting	Snap-in mount edges bevelled	Snap-in (Bevelled)	-	Rail and surface mount
	Clip-in mounting	Snap-in mount edges flush	Snap-in (Flush)	-	Front mount, rectangular aperture, flush rocker handle type
Curve	AD, BD, CD, AI, BI, CI, AS, BS, CS,AW, BW, CW, OX, OP	AD, BD, CD, AI, BI, CI, AS, BS, CS,AW, BW, CW, OX, OP	AD, BD, CD, AE, BE, CE, AI, BI, CI, AH, BH, CH, AS, BS, CS, AW, BW, CW, H3, OP, OX	AS, BS, CS, OP	AD, BD, CD, AE, BE, CE, AI, BI, CI, AH, BH, CH, AS, BS, CS, AW, BW, CW, H3, OP, OX
Termination					Stud terminal
	Quick connect terminal	Quick connect terminal	Quick connect terminal	-	Double quick connect terminal
	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Flush rear screw terminal
	-	-	-	-	Plug-in (Bullet) terminal
	Clamp terminal	-	-	-	Clamp terminal
Handle Type	-	Standard Handle	Standard Handle	-	Standard handle
	Baton handle	-	-	-	-
	Paddle handle	Cut off handle single pole	Cut-off handle single pole	-	Cut-off handle
	Rocker handle	-	Flush Rocker handle two tone	Flush Rocker handle	Flush rocker handle
	Square handle	-	Reduced Handle	Reduced Handle-	Blank pole - no handle
	Illuminated rocker handle	-	-	-	-
	Push-Pull handle	-	-	-	-
	Push-to-Reset handle	-	-	-	
Aux Switch, Trip Alarm, Combo	Auxiliary switch	Auxiliary Switch	Auxiliary Switch	-	Auxiliary Switch, Trip Alarm
Operating Temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to + 85 °C	-40 to +85 °C
Approvals and Markings **Note: Check certification for specific requirements**	(UL 489A) (UL 1077) UL 508 (DIN / EN 60934) (GB14048, GB17701) CE EAC UKCA	(UL 489A) (UL 1077) (DIN / EN 60934) CE EAC UKCA	(UL 489A) (UL 1077 / UL 1500) (UL 489) UL 508 (DIN / EN 60934) CE (GB17701) EAC UKCA	(UL 489) (DIN / EN 60947-2) CE (GB14048.2) EAC UKCA	(UL 489A) (UL 1077) (UL 489) UL 508 (DIN / EN 60947-2, DIN / EN 60934) (GB14048.2)

Notes:

1 Check certification for specific requirements
2 Pending

RAU for DD Frame (D5) Lockout	RAU for DD Frame (D7)	RMU for DD Frame (D8)	LVR		T Frame
0.1 to 80 A @ 120 / 240 Vac, AIC 10 kA	0.1 to 80 A @ 120 / 240 Vac, AIC 10 kA	1 to 100 A @ 80 Vdc, AIC 10 kA	Latching Voltage	18 to 28 Vdc	0.1 to 30 A @ 120 / 240 Vac, 10 kA
0.1 to 100 A @ 80 Vdc, AIC 10 kA	0.1 to 100 A @ 80 Vdc, AIC 10 kA	110 to 200 A @ 80 Vdc, AIC 10 kA	Latching Current	170 to 280 mA	0.1 to 30 A @ 80 Vdc, 10 kA
0.1 to 60 A @ 240 / 415 Vac, 5 kA	0.1 to 60 A @ 240 / 415 Vac, 5 kA	160 to 250 A @ 80 Vdc, AIC 10 kA	Latching Power	3.06 to 7.90 W	0.1 to 30 A @ 240 Vac, 5 kA
0.1 to 100 A @ 80 Vdc, 10 kA	0.1 to 100 A @ 80 Vdc, 10 kA	300 A @ 60 Vdc, AIC 10 kA	Latching Power Duration	380 to 420 ms	0.1 to 30 A @ 80 Vdc, 5 kA
125 A, 250 A, 300 A @ 60 Vdc @ 5 kA	125 A, 250 A, 300 A @ 60 Vdc @ 5 kA		Latching Transient Rise Time	<0.01 to 5 ms	-
110 to 400 A @ 80 Vdc, 5 kA, AIC 10 kA, Parallel	110 to 400 A @ 80 Vdc, 5 kA AIC 10 kA, Parallel		Holding Voltage	13 to 28 Vdc	-
0.1 to 100 A @ 240 / 415 Vac, 3 kA	0.1 to 100 A @ 240 / 415 Vac, 3 kA		Holding Current	45 to 70 mA	-
0.1 to 70 A @ 277 / 480 Vac, 2 kA	0.1 to 70 A @ 277 / 480 Vac, 2 kA		Standby Power	0.69 to 1.96 W	-
0.1 to 80 A @ 80 Vdc, 5 kA	0.1 to 80 A @ 80 Vdc, 5 kA		Release Voltage	0 to 11 Vdc	-
-	-		Humidity	35 to 85 % RH	-
50 A @ 120 / 240 Vac, 240 Vac, 0.6 kA (for 1 switch)	50 A @ 120 / 240 Vac, 240 Vac, 0.6 kA (for 1 switch)				-
RAU + 1, RAU + 2, RAU + 3 Pole	RAU + 1, RAU + 2, RAU + 3 Pole	1, 2 (Parallel), 3 (Parallel)	1P + LVR, 2P + LVR, 3P + LVR, 4P + LVR, 3P + 2LVR		1, 2
Circuit breaker (series trip current sensing)	Circuit breaker (series trip current sensing)	Circuit breaker (characteristic monitoring)	Contact CBI for further product details		Circuit breaker (series trip, current coil in series)
Circuit breaker with trip alarm	Circuit breaker with trip alarm	Circuit breaker with trip alarm			-
Mid-trip not available	Mid-trip not available	Mid-trip not available			-
-	-	-			-
Circuit breaker with auxiliary switch	Circuit breaker with auxiliary switch	-			-
-	-	-			-
Front mount rectangular aperture	Front mount rectangular aperture	Front mount rectangular aperture	Front mount		Front mount
-	-	-	Rectangle aperture		Rectangular aperture
Toggle (standard) handle	Toggle (standard) handle	Toggle (standard) handle	Toggle (standard) handle		-
AD, BD, CD, AE, BE, CE, AI, BI, CI, AH, BH, CH, AS, BS, CS, AW, BW, CW, H3, OP, OX	AD, BD, CD, AE, BE, CE, AI, BI, CI, AH, BH, CH, AS, BS, CS, AW, BW, CW, H3, OP, OX	AS, BS, CS, H3	AD, BD, CD, AE, BE, CE, AI, BI, CI, AH, BH, CH, AS, BS, CS, AW, BW, CW, H3, OP, OX		AD, BD, CD, AH, BH, CH, AS, BS, CS, H3, OP
Stud terminal	Stud terminal	-	Stud terminal		-
Double quick connect terminal	Double quick connect terminal	-	Double quick connect terminal		Double quick connect terminal
Screw terminal	Screw terminal	-	Screw terminal		Screw terminal
Plug-in (Bullet) terminal	Plug-in (Bullet) terminal	Plug-in (Bullet) terminal	Plug-in (Bullet)		-
-	-	-	Clamp terminal		-
Standard handle	Standard handle	Standard handle	Standard Handle		-
-	-	-	-		-
-	-	-	-		-
-	-	-	-		Flush rocker handle
-	-	-	-		Blank front plate - no handle
-	-	-	-		-
-	-	-	-		-
-	-	-	-		-
Auxiliary Switch, Trip Alarm	Auxiliary Switch, Trip Alarm	-	Auxiliary Switch, Trip Alarm		-
-20 to +65 °C	-20 to +65 °C	-20 to +65 °C	-20 to +65 °C		-40 to +85 °C
(UL 489A) (UL 1077) (UL 489) UL 508 (DIN / EN 60947-2, DIN / EN 60934) CE EAC UKCA	(UL 489A) (UL 1077) (UL 489) UL 508 (DIN / EN 60947-2, DIN / EN 60934) CE EAC UKCA	(UL 489A) CE EAC UKCA	(UL 489A) [2] (UL 1077 / CSA)[2] (UL 489 / CSA)[2] UL 508[2] (DIN / EN 60947-2) CE EAC UKCA		(UL 489) (DIN / EN 60947-2) (GB14048.2) EAC UKCA

Rail Mounted Circuit Breakers - AC Applications

Type(width)	QF(18)	QF(26)HR	QL(13)	QZ(13)	SFM(26)
Appearance **DIN Mount Grey**					
Dual Mount (CBI Mini Rail and DIN Rail) / Mini Rail Black					
Current Amps (Min to max)	1 to 63 A	60 to 125 A	0.5 to 25 A	0.1 to 60 A	1 to 100 A (AC) 1 to 100 A (DC)
Poles	1, 2, 2 (1 + N), 3, 4 (3 + N)	1, 2, 2 (1 + N), 3, 4 (3 + N)	1, 2, 2 (1 + N), 3, 4 (3 + N)	1, 2, 2 (1 + N), 3, 4 (3 + N)	1, 2, 2 (1 + N), 3, 4 (3 + N)
Voltage AC	240 / 415 Vac	240 / 415 Vac	120, 120 / 240, 240, 415 Vac	120, 240, 277, 415, 480 Vac	240 / 415 Vac 125 Vdc (250 Vdc 2 pole in series)
Interrupting Capacity kA	6 kA @ 240 / 415 V	6 kA @ 240 / 415 Vac	5 kA @ 240 Vac	3 kA @ 240 / 415 Vac	6 kA @ 240 / 415 Vac 6 kA @ 125 Vdc (250 Vdc 2 pole in series)
		-	6 kA @ 240 / 415 Vac	5 kA @ 277 / 480 Vac	-
		10 kA @ 120, 120 / 240 Vac	10 kA @ 120 / 240 Vac	5 kA @ 277 / 480 Vac	-
Internal Circuit	Circuit breaker (series trip current sensing)	Circuit breaker (current sensing)	Circuit breaker (current sensing)	Circuit breaker (current sensing)	Circuit breaker (current sensing)
	-	Switch	-	-	Switch
	Neutral	-	-	-	-
Mounting / Colour	DIN – Grey	DIN – Grey	DIN – Grey	DIN – Grey	-
	-	Dual (DIN & mini rail) mount – black	Dual (DIN & mini rail) mount – black	Dual (DIN & mini rail) mount – black	-
	-		-	-	Surface mount
Curve	1, 2, 9	1, 2	1, 3, 9, KM, OP	1, 2, 3, 9, OP	1, 2, 3
Termination	Box Pozidriv #2 Combi head	Pozidriv #2, Combi head	Pozidriv #2, Combi head	Pozidriv #2, Combi head	Box Type Lug & Rear studs type
Handle Type	Toggle	Toggle	Toggle	Toggle	Toggle
Aux Switch, Trip Alarm, Combo	Auxiliary Switch	-	Auxiliary Switch	Auxiliary Switch	Auxiliary Switch
Operating Temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Wire Size	0.75 - 35 mm² (IEC) 14 - 4 AWG (UL)	1 - 50 mm² (IEC)	0.75 - 25 mm² (IEC) 18 - 3 AWG (UL)	0.75 - 25 mm² (IEC) 14 - 4 AWG (UL)	1 - 50 mm² (IEC)
Torque	2.5 Nm (IEC) 20 in-lb (UL)	4 Nm (IEC) 35.4 in-lb (UL)	2.5 Nm (IEC) 20 in-lb (UL)	2.5 Nm (IEC) 20 in-lb (UL)	4 Nm (IEC)
Approvals and Markings **Note: Check certification for specific requirements**	VC 8036 (SANS 556-1) (UL 1077) AS / NZS 3111 (DIN / EN 60947-2) CE (GB14048.2) EAC	(UL 508) (switch only) (UL 489) (DIN / EN 60947-2 / 3) (SANS / IEC 60947-2 / 3) CE (GB 14048.2) EAC UK CA	(UL 489) (DIN / EN 60947-2) (GB 14048.2) CE EAC UK CA	(UL 1077 / CSA) (UL 60947-4-1A) (DIN / EN 60947-2) CE EAC UK CA	(DIN / EN 60947-3) - (AC only) AS/NZS 3111 - (AC only)

Notes:

* Trip Alarm available only in dual mount, black products, Q-range

Dual Mount: Fits DIN rail and CBI's Mini Rail, front escutcheon 57 mm
DIN Mount: Fits DIN rail, front escutcheon 45 mm

Rail Mounted Circuit Breakers - DC Applications

Type(width)	QY(13)	QT(26)			
Appearance **DIN Mount Grey**					
Dual Mount (CBI Mini Rail and DIN Rail) Black					
Current Amps (Min to max)	0.1 to 200 A	70 to 250 A	0.5 A to 50 A	0.5 A to 50 A	0.5 A to 32 A
Poles	1, 2, 2 (parallel), 3 (parallel), 4 (parallel), 2 (series)	1, 2, 2+2 (parallel)**	1(parallel), 2 (parallel) & 4 (2+2) (series)	1(parallel), 2 (parallel)(series), 2 3 (parallel) & 4 (series)	1(parallel), 2 (parallel), 3(parallel), 1+N, 3+N
Voltage DC	80 Vdc	80 Vdc	150 Vdc Unpolarised (1P & 2P) 300 Vdc (1P), 400 Vdc / 600 Vdc (2P) & 400 Vdc / 600 Vdc (4P)	150 Vdc (1P), 300 Vdc (2P) & 600 Vdc (4P) (Reverse feedable)	80 Vdc (1P, 2P & 3P), 120/240 Vac (2P) & 240 Vac (1P, 2P & 3P)
	125 V & 250 V	-			
Interrupting Capacity kA	10 kA @ 80 Vdc (IEC 60947-2, UL 489)	10 kA @ 80 Vdc (IEC 60947-2, UL 489A)	6 kA	6 kA	6 kA
	10 kA @ 125 / 250 Vdc (UL 489 A)	-	10 kA	10 kA	10 kA
Internal Circuit	Series trip	Series trip	Series trip	Series trip	Series trip
Mounting / Colour	DIN – Grey	-	DIN - Grey 45 mm front escutcheon	DIN - Grey 45 mm front escutcheon	DIN - Grey 45 mm front escutcheon
	Dual (DIN & mini rail) mount – black	Dual (DIN & mini rail) mount – black	Dual - Black 57 mm front escutcheon	Dual - Black 57 mm front escutcheon	Dual - Black 57 mm front escutcheon
Curve	1, 9, U2, U3, OP	U2	I, S, M, L	I, S, M, L	I, S, M, L
Termination	Box, Pozidriv #2, Combi head	Box, Pozidriv #2, Combi head	Box type / Pozidriv	Box type / Pozidriv	Box type / Pozidriv
	Bridge terminal (2 pole parallel)	Bridge terminal 4 pole (2 pole + 2 pole) parallel bridged	-	-	-
	Bridge Terminal (3 & 4 pole parallel)	-	-	-	-
Handle Type	Toggle	Toggle	Toggle	Toggle	Toggle
Aux Switch, Trip Alarm, Combo	Auxiliary switch, trip alarm	-	Aux, Trip alarm & Aux + Trip alarm	Aux, Trip alarm & Aux + Trip alarm	Aux, Trip alarm & Aux + Trip alarm
Operating Temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Wire Size	95 mm² (IEC) (3 & 4 pole parallel) 18 - 2 AWG (UL) (1 & 2 pole) 14 - 1/0 AWG (UL) (2 pole parallel) 14 - 5/0 AWG (UL) (3 & 4 pole parallel)	1 - 50 mm² (IEC) 14-1/0 AWG (UL)	2.5 - 16 mm² (IEC) 14 - 6 AWG (UL)	2.5 - 16 mm² (IEC) 14 - 6 AWG (UL)	2.5 - 10 mm² (IEC) 14 - 8 AWG (UL)
Torque	20 in-lb (UL) (1 & 2 pole) 28 in-lb (UL) (2 pole parallel) 50 in-lb (UL) (3 & 4 pole parallel)	4 Nm (IEC) 35 in-lb (UL)	3.5 Nm (IEC) 30 in-lb (UL)	3.5 Nm (IEC) 30 in-lb (UL)	3.5 Nm (IEC) 30 in-lb (UL)
Approvals and Markings **[1] Note: Check certification for specific requirements**	(UL 489A) (DIN / EN 60947-2) AS / NZS 60947-2 CE EAC UKCA	(UL 489A) (DIN / EN 60947-2) AS / NZS 60947-2 CE (GB 14048.2) UKCA	(UL 489A) (DIN / EN 60947-2) CE (GB 14048.2)	(UL 489B) (DIN / EN 60947-2) CE (GB 14048.2) UKCA	(UL 489) (DIN / EN 60947-2) CE (GB 14048.2) UKCA

Notes:

* Trip Alarm available only in dual mount, black products
** Auxiliary module not available on QT

Dual Mount: Fits DIN rail and CBI's Mini Rail, front escutcheon 57 mm (black, available on special request)
DIN Mount: Fits DIN rail, front escutcheon 45 mm

Rail Mounted Circuit Breakers - DC Applications

continued

0.5 A to 50 A	40 A & 70 A
1, 2 & 2 (series)	1, 2 & 4 (series)
80 Vdc, 150 Vdc, 220 Vdc & 300 Vdc	300 Vdc & 600 Vdc
6 kA	-
10 kA	
Series trip	Series trip
DIN - Grey 45 mm front escutcheon	DIN - Grey 45 mm front escutcheon
Dual - Grey 57 mm front escutcheon	Dual - Black 57 mm front escutcheon
I, S, M, L	-
Box type / Pozidriv	Box type / Pozidriv
-	-
-	-
Toggle	Toggle
Aux, Trip alarm & Aux + Trip alarm	-
-40 to +85 °C	-40 to +85 °C
2.5 - 16 mm² (IEC) 14 - 6 AWG (UL)	10 - 25 mm² (IEC) 8 - 4 AWG (UL)
3.5 Nm (IEC) 30 in-lb (UL)	3.5 Nm (IEC) 30 in-lb (UL)
(UL 489A) (DIN / EN 60947-2) CE (GB 14048.2) UK CA	(UL 489A) (DIN / EN 60947-2) CE (GB 14048.2) UK CA

Residual Current Devices

Type(width)	QF17
Appearance **DIN Mount Grey** **Dual Mount (CBI Mini Rail and DIN Rail) Black**	
Width	26 mm
Voltage AC	240 V
Phases	Single phase (1+N)
	-
Type	Type A
Current Amps (Min to max)	1 to 63 A
Interrupting Capacity kA	5 / 6 kA
Switch	Available
Sensitivity	30 mA / 22 mA
Mounting / Colour	Dual (DIN & mini rail) mount – black
Front Es-cutcheon	57 mm
Curve	2
Termination	Box Pozidriv #2 Combi head
Handle Type	Toggle, mid trip
Aux Switch, Trip Alarm	Optional
Operating Temperature	-40 to +85 °C
Wire Size	0.75 - 35 mm² (IEC)
Torque	2.5 Nm (IEC) 22 in-lb (UL)
Approvals and Markings **[1] Note: Check certification for specific requirements**	VC 8035 UL 1053 AS / NZS 60947-2 (DIN / EN 60947-2) CE (GB 14048.2) UK CA

CBI electric
North America

USA Head Office:

35 E. Uwchlan Ave
Suite 328
Exton
PA
19341
USA

Tel: +1 610 524 9949
Fax: +1 610 524 9945
E-mail: info@cbibreakers.com
Website: www.cbibreakers.com

A member of the REUNERT Group

© 2022.07 CBI (Pty) Ltd. All Rights Reserved.

All rights reserved. Unless otherwise indicated, all materials on these pages are copyrighted by CBI (Pty) Ltd. No part of these pages, either text or image may be used for any purpose other than personal use. Therefore, reproduction, modification, storage in a retrieval system or retransmission, in any form or by any means, electronic, mechanical or otherwise, for reasons other than personal use, is strictly prohibited without prior written permission. CBI (Pty) Ltd reserves the right to alter any details of this document / agreement without notice and while every effort is made to ensure the accuracy of the content, no warranty is given as to the accuracy of this document and no responsibility will be accepted for error or misinterpretation and any resulting loss.