






Selection Chart



Circuit Breaker Selection Chart

Front Mounted Circuit Breakers

Type	B Frame	C Frame MKII	C Frame MKIV	C Frame MKV
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 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 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 30 A @ 65 Vdc, 1.5 kA Polarized	-	0.05 to 50 A @ 80 Vdc, 7.5 kA	-
	15 A @ 300 Vdc switch	-	50 A @ 240 Vac, 2 kA	-
	-	-	50 A @ 80 Vdc, 4 kA	-
	-	-	50 A @ 120 / 240 Vac, 1.5 kA	-
	-	-	50 A @ 65 Vdc, 1.5 kA	-
Poles	1, 2	1, 2, 3	1, 2, 3, 4	1, 2,
Internal Circuit	Circuit breaker (Series trip, current coil in series)	Circuit breaker (Series trip, current coil in series)	Circuit breaker (Series trip, current coil in series)	Circuit breaker (Series trip, current coil in series)
	Switch - Relay trip (voltage sensing) 4 terminal	-	Switch - Relay trip (voltage sensing) 4 terminal	-
	-	-	Switch	-
	-	-	-	-
	-	-	-	-
Mounting	Centre lock (thread neck)	Front mount, Round aperture	Front mount	Front mount, Rectangular aperture
	Snap-in vertical / horizontal mounting	Snap-in mount edges bevelled	Snap-in (Bevelled)	-
	Clip-in mounting	Snap-in mount edges flush	Snap-in (Flush)	-
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
Termination	Quick connect terminal	Quick connect terminal	Quick connect terminal	-
	Screw terminal	Screw terminal	Screw terminal	Screw terminal
	Clamp terminal	-	-	-
	-	-	-	-
Handle Type	Baton handle	Standard Handle	Standard Handle	-
	Paddle handle	Cut off handle single pole	Cut-off handle single pole	-
	Rocker handle	-	Flush Rocker handle two tone	Flush Rocker handle
	Square handle	-	Reduced Handle	Reduced Handle-
	Illuminated rocker handle	-	-	-
	Push-Pull handle	-	-	-
	Push-to-Reset handle	-	-	-
Aux Switch, Trip Alarm, Combo	Auxiliary switch	Auxiliary Switch	Auxiliary Switch	-
Operating Temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Approvals and Markings				
Note: Check certification for specific requirements				

Front Mounted Circuit Breakers

Type	DD Frame	RAU for DD Frame (D5) Lockout	RAU for DD Frame (D7)	RMU for DD Frame (D8)
Appearance				
Current @, Voltage and kA Rating	0.1 to 80 A @ 120 / 240 Vac, AIC 10 kA	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
	0.1 to 100 A @ 80 Vdc, AIC 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
	0.1 to 60 A @ 240 / 415 Vac, 5 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
	0.1 to 100 A @ 80 Vdc, 10 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
	125 A, 250 A, 300 A @ 60 Vdc @ 5 kA	125 A, 250 A, 300 A @ 60 Vdc @ 5 kA	125 A, 250 A, 300 A @ 60 Vdc @ 5 kA	
	110 to 400 A @ 80 Vdc, AIC 10 kA, Parallel	110 to 400 A @ 80 Vdc, 5 kA, AIC 10 kA, Parallel	110 to 400 A @ 80 Vdc, 5 kA AIC 10 kA, Parallel	
	0.1 to 100 A @ 240 Vac, 3 kA	0.1 to 100 A @ 240 / 415 Vac, 3 kA	0.1 to 100 A @ 240 / 415 Vac, 3 kA	
	0.1 to 70 A @ 415 Vac, 3 kA	0.1 to 70 A @ 277 / 480 Vac, 2 kA	0.1 to 70 A @ 277 / 480 Vac, 2 kA	
	0.1 to 70 A @ 277 / 480 Vac, 2 kA	0.1 to 80 A @ 80 Vdc, 5 kA	0.1 to 80 A @ 80 Vdc, 5 kA	
0.1 to 80 A @ 100 Vdc, 5 kA	-	-		
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)	50 A @ 120 / 240 Vac, 240 Vac, 0.6 kA (for 1 switch)		
Poles	1, 2, 3, 4, 5, 6	RAU + 1, RAU + 2, RAU + 3 Pole	RAU + 1, RAU + 2, RAU + 3 Pole	1, 2 (Parallel), 3 (Parallel)
Internal Circuit	Circuit breaker (current sensing series trip)	Circuit breaker (series trip current sensing)	Circuit breaker (series trip current sensing)	Circuit breaker (characteristic monitoring)
	Switch with relay trip (current / voltage sensing) 4 terminal	Circuit breaker with trip alarm	Circuit breaker with trip alarm	Circuit breaker with trip alarm
	Circuit breaker with dual control (shunt trip construction) 4 terminal	Mid-trip not available	Mid-trip not available	Mid-trip not available
	Circuit breaker with dual control (relay trip construction) 3 terminal	-	-	
	Circuit breaker with auxiliary switch	Circuit breaker with auxiliary switch	Circuit breaker with auxiliary switch	
	Circuit breaker with mid trip handle	-	-	
Mounting	Front mount rectangular aperture	Front mount rectangular aperture	Front mount rectangular aperture	Front mount rectangular aperture
	Rail and surface mount	-	-	-
	Front mount, rectangular aperture, flush rocker handle type	Toggle (standard) handle	Toggle (standard) handle	Toggle (standard) handle
Curve	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	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
Termination	Stud terminal	Stud terminal	Stud terminal	
	Double quick connect terminal	Double quick connect terminal	Double quick connect terminal	
	Flush rear screw terminal	Screw terminal	Screw terminal	
	Plug-in (Bullet) terminal	Plug-in (Bullet) terminal	Plug-in (Bullet) terminal	Plug-in (Bullet) terminal
	Clamp terminal	-	-	
Handle Type	Standard handle	Standard handle	Standard handle	Standard handle
	Cut-off handle	-	-	
	Flush rocker handle	-	-	
	Blank pole - no handle	-	-	
Aux Switch, Trip Alarm, Combo	Auxiliary Switch, Trip Alarm	Auxiliary Switch, Trip Alarm	Auxiliary Switch, Trip Alarm	
Operating Temperature	-40 to +85 °C	-20 to +65 °C	-20 to +65 °C	-20 to +65 °C
Approvals and Markings Note: Check certification for specific requirements				

100% rated, unaffected by ambient temperature



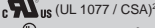
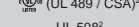
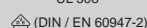




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Front Mounted Circuit Breakers

Type	LVR
Appearance	
Latching Voltage	18 to 28 Vdc
Latching Current	170 to 280 mA
Latching Power	3.06 to 7.90 W
Latching Power Duration	380 to 420 ms
Latching Transient Rise Time	<0.01 to 5 ms
Holding Voltage	13 to 28 Vdc
Holding Current	45 to 70 mA
Standby Power	0.69 to 1.96 W
Release Voltage	0 to 11 Vdc
Humidity	35 to 85 % RH
Poles	1P + LVR, 2P + LVR, 3P + LVR, 4P + LVR, 3P + 2LVR
Internal Circuit	Contact CBI for further product details
Mounting	Front mount
	Rectangle aperture
	Toggle (standard) handle
Curve	AD, BD, CD, AE, BE, CE, AI, BI, CI, AH, BH, CH, AS, BS, CS, AW, BW, CW, H3, OP, OX
Termination	Plug-in (Bullet)
	Screw terminal
	Double quick connect terminal
	Stud terminal
	Clamp terminal
Handle Type	Standard Handle
Aux Switch, Trip Alarm, Combo	Auxiliary Switch, Trip Alarm
Operating Temperature	-20 to +65 °C
Approvals and Markings	   UL 508²     
Note: Check certification for specific requirements	

Notes:

- 1 Check certification for specific requirements
- 2 Pending

Front Mounted Circuit Breakers

Type	T Frame
Appearance	
Current@, Voltage and kA Rating	0.1 to 30 A @ 120 / 240 Vac, 10 kA
	0.1 to 30 A @ 80 Vdc, 10 kA
	0.1 to 30 A @ 240 Vac, 5 kA
	0.1 to 30 A @ 80 Vdc, 5 kA
	-
	-
	-
	-
	-
	-
Poles	1, 2
Internal Circuit	Circuit breaker (series trip, current coil in series)
	-
	-
	-
	-
Mounting	Front mount
	Rectangular aperture
	-
Curve	AD, BD, CD, AH, BH, CH, AS, BS, CS, H3, OP
Termination	Screw terminal
	Double quick connect
	-
	-
Handle Type	Flush rocker handle
	Blank front plate - no handle
	-
	-
Aux Switch, Trip Alarm, Combo	-
Operating Temperature	-40 to +85 °C
Approvals and Markings	<ul style="list-style-type: none">  (UL 489)  (DIN / EN 60947-2)  (GB14048.2)   <p>Note: Check certification for specific requirements</p>

100% rated, unaffected by ambient temperature






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Rail Mounted Circuit Breaker AC Applications

Type(width)	QA(13)	QF(13)	QF(18)	QF(19)
Appearance				
DIN Mount Grey				
Dual Mount (CBI Mini Rail and DIN Rail) / Mini Rail Black				
Current Amps (Min to max)	0.1 to 60 A	0.1 to 25 A	1 to 63 A	1 to 63 A
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)
Voltage AC	240 / 415 Vac	240 / 415 Vac	240 / 415 Vac	240 / 415 Vac
Interrupting Capacity kA	3 kA @ 240 / 415 V	6 kA @ 240 / 415 V	6 kA @ 240 / 415 V	6 kA @ 240 / 415 V
Internal Circuit	Circuit breaker (series trip current sensing)	Circuit breaker (series trip current sensing)	Circuit breaker (series trip current sensing)	Circuit breaker (series trip current sensing)
	Switch	Switch	-	-
Mounting / Colour	-	DIN – Grey	DIN – Grey	-
	Mini – Black	Dual – Black	-	Dual – Black
Curve	3	1, 2	1, 2, 9	1, 2, 9
Termination	Box Pozidriv #2 Combi head	Box Pozidriv #2 Combi head	Box Pozidriv #2 Combi head	Box Pozidriv #2 Combi head
Handle Type	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
Wire Size	0.7 - 25 mm ² (IEC)	0.75 - 25 mm ² (IEC) 18 - 3 AWG (UL)	0.75 - 35 mm ² (IEC) 14 - 4 AWG (UL)	0.75 - 35 mm ² (IEC) 14 - 4 AWG (UL)
Torque	2.5 Nm (IEC)	2.5 Nm (IEC)	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) ⚡ (DIN / EN 60947-2)	VC 8036 (SANS 556-1) ⚡ (DIN / EN 60947-2) SANS 60947-3 DIN / EN 60947-3 ⚡ AS/NZS 3111 CE Ⓢ (GB14048.2) EAC UK CA	VC 8036 (SANS 556-1) UL US (UL 1077) ⚡ AS / NZS 3111 ⚡ (DIN / EN 60947-2) CE Ⓢ (GB14048.2) EAC UK CA	VC 8036 (SANS 556-1) ⚡ (DIN / EN 60947-2) ⚡ AS / NZS 3111 CE Ⓢ (GB14048.2) EAC UK CA








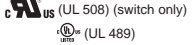
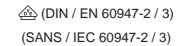
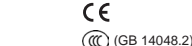








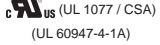



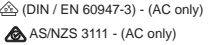

Notes:

* Trip Alarm available only in dual mount, black products

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 Breaker AC Applications

Type(width)	QF(26)LR	QF(26)HR	QL(13)	QZ(13)	SFM(26)
Appearance					
DIN Mount Grey					
Dual Mount (CBI Mini Rail and DIN 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 Vac	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 (current sensing)	Circuit breaker (current sensing)	Circuit breaker (current sensing)	Circuit breaker (current sensing)	Circuit breaker (current sensing)
	-	Switch	-	-	Switch
Mounting / Colour	-	-	DIN – Grey	DIN – Grey	-
	Dual (DIN & mini rail) mount – black	Dual (DIN & mini rail) mount – black	Dual (DIN & mini rail) mount – black	Dual (DIN & mini rail) mount – black	Surface mount
Curve	1, 2	1, 2	1, 3, 9, KM, OP	1, 2, 3, 9, OP	1, 2, 3
Termination	Box and 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
Operating Temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Wire Size	1 - 50 mm ² (IEC)	1 - 50 mm ² (IEC)	0.75 - 25 mm ² (IEC) 18 - 3 AWG (UL)	0.75 - 25 mm ² (IEC) 14 - 4 AWG (UL)	1 - 50 mm ² (IEC)
Torque	4 Nm (IEC)	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	VC 8036	 (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)
¹ Note: Check certification for specific requirements					

Notes:

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








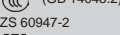




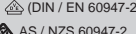


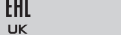



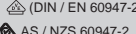
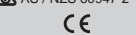

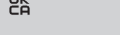


Dual Mount: Fits DIN rail and CBI's Mini Rail, front escutcheon 57 mm
DIN Mount: Fits DIN rail, front escutcheon 45 mm

100% rated, unaffected by ambient temperature

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Rail Mounted Circuit Breaker DC Applications

Type(width)	QDC(13)	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	0.1 to 200 A	70 to 250 A
Poles	1, 2, 2 (parallel), 3 (parallel) 4 pole (parallel), 2 (series)	1, 2, 2 (parallel), 3 (parallel), 4 (parallel), 2 (series)	1, 2, 2+2 (parallel)**
Voltage DC	80 Vdc	80 Vdc	80 Vdc
	125 V & 250 V	125 V & 250 V	-
Interrupting Capacity kA	10 kA @ 80 Vdc (IEC 60947-2)	10 kA @ 80 Vdc (IEC 60947-2, UL 489)	10 kA @ 80 Vdc (IEC 60947-2, UL 489A)
	10 kA @ 125 / 250 Vdc	10 kA @ 125 / 250 Vdc (UL 489 A)	-
Internal Circuit	Series trip	Series trip	Series trip
Mounting / Colour	DIN – Grey	DIN – Grey	-
	Dual (DIN & mini rail) mount – black	Dual (DIN & mini rail) mount – black	Dual (DIN & mini rail) mount – black
Curve	1, 9, U2, U3, OP	1, 9, U2, U3, OP	U2
Termination	Box, Pozidriv #2, Combi head	Box, Pozidriv #2, Combi head	Box, Pozidriv #2, Combi head
	Bridge terminal (2 pole parallel)	Bridge terminal (2 pole parallel)	Bridge terminal 4 pole (2 pole + 2 pole) parallel bridged
	Bridge Terminal (3 pole parallel)	Bridge Terminal (3 & 4 pole parallel)	-
Handle Type	Toggle (Grey)	Toggle	Toggle
Aux Switch, Trip Alarm, Combo	Auxiliary switch, trip alarm	Auxiliary switch, trip alarm	-
Operating Temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Wire Size	0.75 - 25 mm ² (IEC) (1 & 2 pole) 50 mm ² (IEC) (2 pole parallel) 95 mm ² (IEC) (3 pole parallel)	95 mm ² (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 mm ² (IEC) 14-1/0 AWG (UL)
Torque	2.5 Nm (IEC) (1 & 2 pole) 3.2 Nm (IEC) (2 pole parallel) 5.6 Nm (IEC) (3 & 4 pole parallel)	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)
Approvals and Markings	     	      	      
<p>¹ Note: Check certification for specific requirements</p>			

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

DIN Mount: Fits DIN rail, front escutcheon 45 mm

Rail Mounted Circuit Breaker DC Applications

Type(width)	YA-Frame (13)	YB-Frame (13)	YF-Frame (13)	YR-Frame (13)	YS-Frame (13)
Appearance					
DIN Mount, 45 mm Front, Grey					
DIN Mount, 57 mm Front, Black					
Current Amps (Min to max)	0.5 A to 50 A	0.5 A to 50 A	0.5 A to 32 A	0.5 A to 50 A	40 A & 70 A
Poles	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	1, 2 & 2 (series)	1, 2 & 4 (series)
Voltage DC	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)	80 Vdc, 150 Vdc, 220 Vdc & 300 Vdc	300 Vdc & 600 Vdc
Interrupting Capacity kA	6 kA and 10 kA	6 kA and 10 kA	6 kA and 10 kA	6 kA and 10 kA	-
Internal Circuit	Series trip	Series trip	Series trip	Series trip	Series trip
Mounting / Colour	DIN - Grey 45 mm front escutcheon	DIN - Grey 45 mm front escutcheon	DIN - Grey 45 mm front escutcheon	DIN - Grey 45 mm front escutcheon	DIN - Grey 45 mm front escutcheon
	Dual - Black 57 mm front escutcheon	Dual - Black 57 mm front escutcheon	Dual - Black 57 mm front escutcheon	Dual - Grey 57 mm front escutcheon	Dual - Black 57 mm front escutcheon
Curve	I, S, M, L	I, S, M, L	I, S, M, L	I, S, M, L	-
Termination	Box type / Pozidriv	Box type / Pozidriv	Box type / Pozidriv	Box type / Pozidriv	Box type / Pozidriv
Handle Type	Toggle	Toggle	Toggle	Toggle	Toggle
Aux Switch, Trip Alarm, Combo	Aux, Trip alarm & Aux + 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	2.5 - 16 mm ² (IEC) 14 - 6 AWG (UL)	2.5 - 16 mm ² (IEC) 14 - 6 AWG (UL)	2.5 - 10 mm ² (IEC) 14 - 8 AWG (UL)	2.5 - 16 mm ² (IEC) 14 - 6 AWG (UL)	10 - 25 mm ² (IEC) 8 - 4 AWG (UL)
Torque	3.5 Nm (IEC) 30 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)	3.5 Nm (IEC) 30 in-lb (UL)
Approvals and Markings	 (UL 489A)    (GB 14048.2) 	 (UL 489B)    (GB 14048.2) 	 (UL 489)    (GB 14048.2) 	 (UL 489A)    (GB 14048.2) 	 (UL 489A)    (GB 14048.2) 
<p>* Note: Check certification for specific requirements</p>					

Notes:

* Trip Alarm available only in dual mount, black products

Dual (DIN and Mini rail) mount 57 mm front escutcheon, black, available on special request

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Residual Current Devices

Type(width)	QA17	QA36	QF17	QF14	QF10
Appearance					
DIN Mount Grey					
Dual Mount (CBI Mini Rail and DIN Rail) Black					
Width	26 mm	78 mm	26 mm	26 mm	18 mm
Voltage AC	240 V	415 V	240 V	240 V	240 V
Phases	Single phase (1+N)	Three phase (3 + N)	Single phase (1+N)	Single phase (1+N)	Single pole plus unswitched neutral (1+N)
	-	(3+N)	-	-	-
Type	Type A	Type A	Type A	Type A	Type A
Current Amps (Min to max)	5 to 63 A	6 to 63 A	1 to 63 A	5 to 63 A	6 to 40 A
Interrupting Capacity kA	2.5 / 3 kA	2.5 / 3 kA	5 / 6 kA	6 kA	6 kA
Switch	Available	Available	Available	Available	-
Sensitivity	30 mA	30 mA	30 mA / 22 mA	30 mA	30 mA
Mounting / Colour	Dual (DIN & mini rail) mount - black	Dual (DIN & mini rail) mount - black	Dual (DIN & mini rail) mount - black	DIN mount - Grey	Dual (DIN & mini rail) mount - grey
Front Escutcheon	57 mm	57 mm	57 mm	45 mm	45 mm
Curve	2	2	2	2	2, 9
Termination	Box Pozidriv #2 Combi head	Box Pozidriv #2 Combi head	Box Pozidriv #2 Combi head	Box Pozidriv #2 Combi head	Box Pozidriv #2 Combi head Fly leads
Handle Type	Toggle, mid trip	Toggle, mid trip	Toggle, mid trip	Toggle, mid trip	Toggle
Aux Switch, Trip Alarm	Optional	-	Optional	-	-
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 mm ² (IEC)	0.75 - 35 mm ² (IEC)	0.75 - 35 mm ² (IEC)	0.75 - 35 mm ² (IEC)	0.75 - 25 mm ² Line (L) 0.75 - 16 mm ² Load (L+N) 4 mm ² (6 A - 32 A) Line (N) 6 mm ² (40 A) Line (N)
Torque	2.5 Nm (IEC)	2.5 Nm (IEC)	2.5 Nm (IEC) 22 in-lb (UL)	2.5 Nm (IEC)	2.5 Nm Line (L) 1.2 Nm Load (L+N)
Approvals and Markings	VC 8035 ⊠ (DIN / EN 60947-2)	VC 8035	VC 8035 UL 1053 ⊠ AS / NZS 60947-2 ⊠ (DIN / EN 60947-2) CE CCC (GB 14048.2) UK CA	VC 8035	⊠ AS/NZS 3190
¹ Note: Check certification for specific requirements					




Notes:

* Trip Alarm available only in dual mount, black products

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

Residual Current Devices – Heavy Duty

Type(width)	SM15	SM36
Appearance		
Width	65 mm	117 mm
Voltage	110 V, 240 Vac	415 Vac
Phases	Single phase, (1+N)	Three phase, (3+N)
Current Amps (Min to max)	10 to 100 A	15 to 80 A
Interrupting Capacity kA	6 kA	6 kA
Switch	-	-
Sensitivity	100, 250, 500, 1000 mA	100, 250, 500, 1000 mA
Mounting / Colour	CBI mini rail, surface mount - Black	CBI mini rail, surface mount - Black
Front Escutcheon	57 mm	57 mm
Curve	2	2
Termination	Box Pozidriv #2 Combi head	Box Pozidriv #2 Combi head
Handle Type	Toggle	Toggle
Aux Switch	-	-
Operating Temperature	-40 to +85 °C	-40 to +85 °C
Wire Size	0.75 - 35 mm ² (IEC)	0.75 - 35 mm ² (IEC)
Torque	2.5 Nm	2.5 Nm
Approvals and Markings	VC 8035 AS/NZS 3190	AS/NZS 3190
¹ Note: Check certification for specific requirements		

Earth Leakage Relays	Hospital Monitor	Portable Earth Leakage Unit
EL305 / EL306	EB225H (Early Bird)	ELP15
		
110 V, 220 V, 380 V, 525 V	220 / 250 V, 50 Hz	240 V, 50 Hz
Sensitivity 30, 50, 125, 250, 500, 1000, 2000, 5000	1 mA	15 A, 5 kA
	120 VA	SANS 164-1
Remote Core available	5000 Ω alarm level	3 x unswitched sockets, 1 x QF17 Earth Leakage 30 mA

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Residual Current Devices – Heavy Duty

Type(width)	SF1EL	SF15	SF36
Appearance			
Width	26 mm	65 mm	117 mm
Voltage	240 Vac	240 Vac	415 Vac
Phases	Single phase, (1+N)	Single phase, (1+N)	Three phase, (3+N)
Type	Type A	Type A	Type A
Current Amps (Min to max)	6 to 40 A	10 to 100 A	10 to 80 A
Interrupting Capacity kA	6 kA	6 kA	6 kA
Circuit Breaker			
Switch	-	Available	Available
Sensitivity	10 mA, 30 mA	30 mA	30 mA
Mounting / Colour	Surface mount - Black	CBI Mini Rail, surface mount - Black	CBI Mini Rail, Surface mount - Black
Front Escutcheon	57 mm	57 mm	57 mm
Curve	1, 2, 3	2	2
Termination	Pozidriv #2 Combi head + Flat	Pozidriv #2 Combi head	Pozidriv #2 Combi head
Handle Type	Toggle	Toggle	Toggle
Aux Switch	-	-	-
Operating Temperature	-40 to +85 °C	-40 to +85 °C	-40 to +85 °C
Wire Size	0.75 - 35 mm ² (IEC)	0.75 - 35 mm ² (IEC)	0.75 - 35 mm ² (IEC)
Torque	2.5 Nm (IEC)	2.5 Nm (IEC)	2.5 Nm (IEC)
Approvals and Markings	AS/NZS 3190	AS/NZS 3190 VC 8035	AS/NZS 3190 VC 8035
¹ Note: Check certification for specific requirements			

Distribution Boards







Ready Boards	Distribution Boards
NRBCON	DB Box
	
Complete, ready to install electrical distribution board fitted with:	Available in:
QA17C Earth Leakage	12-Way
QA1(13) MCB	20-Way
Switched Sockets	40-Way
Bulkhead lamp (optional)	60-Way
SANS 1619	Not populated / pre-wired - products sold separate (image for illustrative purposes only)
Other options available	

Auxiliary Products







Energy Control Unit	Domestic Contactor
ECU	SAK
	
Controlling Circuit Ratings: 5, 10, 15, 20, 25, 30, 40, 60 A	220 / 240 Vac
Controlled Circuit Ratings: Switches 21 A resistive load @ 230 Vac (5 kW)	4 Poles
	AC 3 (Inductive Load) Max 13 A
	AC 1 (Resistive Load) Max 40 A (Bridged)

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Auxiliary Products

Rail Mount Meters	Electronic Timer	Surge Protector	Pole Mounted Box	Street Light Protection
Ecolec 300	QAT-TRDM	QFL / QKL	SPB1	QAST001
				
120 Vac	230 V	275 V Max		Accepts 3 Single Poles or 1 Triple pole QF type
240 Vac		QFL	QKL	
50, 60 Hz	50 Hz	5 kA (8 / 20 μS) & 10 kA (8 / 20 μS)	20 kA (8 / 20 μS) & 40 kA (8 / 20 μS)	100 A
Single phase	Single phase			
3 Phase				8 A to 63 A
Ib 5 A	Resistive 21 A max			
I _{max} 80 A	Inductive 10 A max			
Operational Range	Clock accuracy ± 3 min per month			
20 mA to 90 A				
Protection Class II				
Dual Mount – Black 57 mm front Escutcheon	Dual Mount – Black 57 mm front Escutcheon	Dual Mount – Black 57 mm front Escutcheon	Cross arm pole Top street lamp	Cross arm pole Top street lamp
DIN Mount – Grey 45 mm front Escutcheon	DIN Mount – Grey 45 mm front Escutcheon	DIN Mount – Grey 45 mm front Escutcheon		
-40 to +75 °C	-20 to +55 °C		UV resistant	UV resistant
Overvoltage 600 V for 48 hours	Time retention (power outage) 24 hours		Dust proof	Dust proof
DC Withstand 1 kV DC for 1 min	20000 cycles (Minimum)			
Impulse withstand 10 kV differential mode				ON / OFF reset
Fault withstand 10 kA for 40 milliseconds				
IP51 Indoor	2 - Normally only non-conductive			
		Class II		
Approvals				
 SANS 1799 Class 1	SANS 60730-2-7	SANS 61643-1		

Astute Smart Range of IoT devices

Type	Astute Smart Controller	Astute Smart Isolator	Astute Smart Plug
	ASC	ASI	ASP
Appearance			
Supply Voltage	230 V, 50 Hz – 1 Ph	230 V, 50 Hz – 1 Ph	230 V, 50 Hz – 1 Ph
Rated Operational Current (Ie)	30 A resistive 10 A inductive	30 A resistive 10 A inductive	16 A
Contact Life	20 000 cycles	20 000 cycles	20 000 cycles
Degree of Ingress Protection	IP40 in a DB	IP40 when installed	IP40 when installed
Rated Insulation Voltage (Ui)	-	250 Vac	250 Vac
Rated impulse withstand Voltage (Uimp)	4 kV	2.5 kV	2.5 kV
Rated Duty	-	Uninterrupted Duty	Uninterrupted Duty
Rated short-time withstand current & duration	-	12Ie/1s	12Ie/1s
Rated short-circuit making capacity	-	12 x 1.41Ie	12 x 1.41Ie
Terminal Size	16 mm ²	6 mm ²	6 mm ²
Operating Temperature Range	-20 °C to +55 °C	-15 °C to +55 °C	-20 °C to +55 °C
Mounting Options	45 and 57 mm escutcheon cut-out (adaptor supplied, see outline dimensions)	4 x 2 Surface or Wall Mount	4 x 4 Surface or Wall Mount
Pollution Degree	2 - Normally only non - conductive pollution occurs	2 - Normally only non - conductive pollution occurs	2 - Normally only non - conductive pollution occurs
Programmable Period	Week, day, minute / Automation	Week, day, minute / Automation	Week, day, minute / Automation
Accuracy	Dependant on ISP	Dependant on ISP	Dependant on ISP
Ball Pressure Test	125 °C	-	-
Contact Type	Type1 C S T	-	-
Approvals and Markings ¹ Note: Check certification for specific requirements			

Notes:







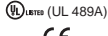


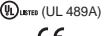




Ensure Internet Connections

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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		IEC / EN 60947-2 ¹ IEC / EN 60947-3 ¹ SANS 60947-2 SANS 60947-3  	IEC / EN 60947-2, IEC / EN 60947-3 ¹ SANS 60947-2 SANS 60947-3   	IEC / EN 60947-2, IEC / EN 60947-3 ¹ SANS 60947-2 SANS 60947-3   	IEC / EN 60947-2, IEC / EN 60947-3 ¹ SANS 60947-2 SANS 60947-3  

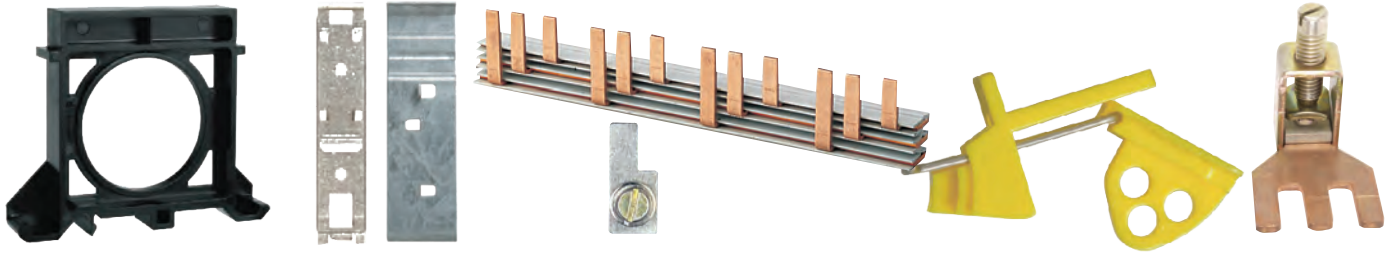
Notes:

Switch version available

¹ Check certification for specific requirements

As CBI-electric: low voltage continuously strives to improve product and certification, please verify approvals and certifications for the current status on the relevant product, particularly when looking at new designs.

Accessories



ACCESSORIES	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
PRODUCT											
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	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
QH-(26)	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
QH-(26)-D	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
QL-(13)	✓		✓	✓	✓	✓	✓	✓			
QY-(13)			✓	✓	✓	✓		✓			
QZ-(13)	✓	✓	✓	✓	✓	✓	✓	✓			

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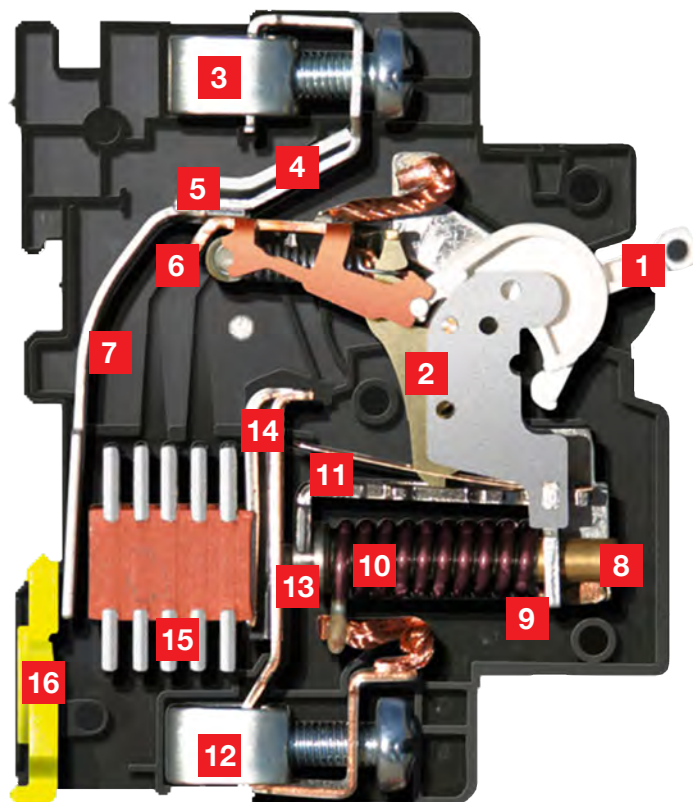
Features

Features of the Hydraulic-Magnetic Principle

- Circuit breakers can carry 100% of rated current independent of ambient temperature
- Do not require de-rating for temperature
- Always trip at 125% of rated current independent of ambient temperature
- Immediate resetting after trip
- Any current rating possible, even fractions of amperes
- Large range of time delays available
- Can mount a large number of circuit breakers side by side

Features of the Construction Common to all CBI Circuit Breakers

- **Trip free operation:** Even if the handle is locked in the ON position, the breaker will trip if an overload occurs
- **Positive ON and positive OFF:** The handle always indicates the status of the breaker contacts
- **Silver alloy contacts:** The contact tips ensure a long, trouble-free life, even in harsh environments, ensuring a low impedance connection throughout the life of the breaker
- **Superior quality polymer materials:** Materials meet or exceed the requirements laid down by international specifications for polymer materials to be used in circuit breaker applications, such as IEC 60947-2 and UL 489
- **Environmental Safety:** Ensures better safety properties for flammability, toxicity and isolation, ensure safety for users and the installation
- **Hermetically sealed sensing / time delay mechanism:** These ensure no aging or deterioration and thereby a longer service life, with precise time-delay and tripping characteristics throughout the life of the breaker
- **Multi-pole Circuit Breakers are fitted with common trips:** All CBI multi-pole circuit breakers are externally coupled with a handle tie-bar and internally with a common trip linkage, ensuring that all poles switch and trip simultaneously



Hydraulic-Magnetic Circuit Breaker

Circuit Breaker Components

1. Handle
2. Mechanism assembly
3. Line terminal
4. Fixed contact
5. Contact tips
6. Moving contact
7. Arc runner line side
8. Hermetically sealed tube
9. Magnetic frame
10. Solenoid coil
11. Armature
12. Load terminal
13. Pole piece
14. Arc runner load side
15. Arc grids
16. Clip-in springs

Principle of Operation

Hydraulic-Magnetic Technology

Hydraulic-magnetic circuit breakers operate on the magnetic force produced by a load current flowing through a series-connected solenoid coil that is wound around a hermetically sealed tube containing an iron core, a spring and dampening fluid, as shown in Figure 1.

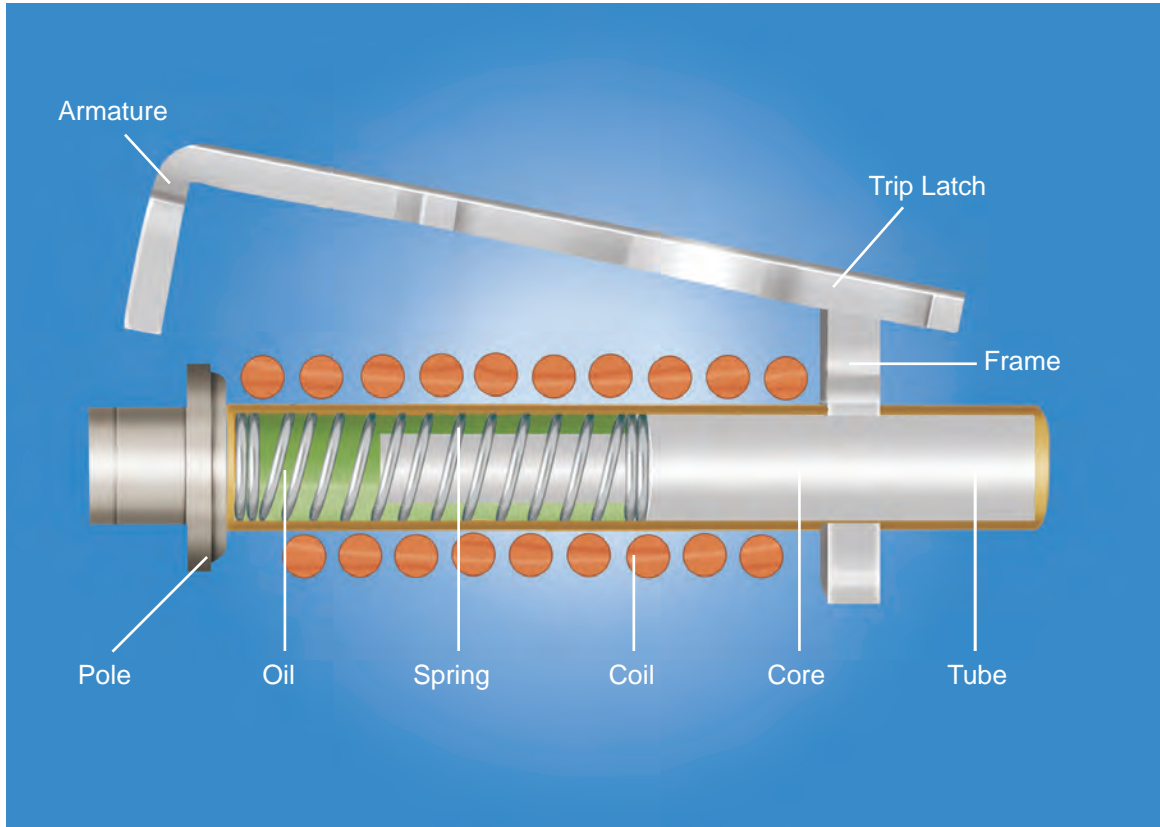


Figure 1: Series Connected Coil

Normal Operation

At the circuit breaker's rated current or below, the magnetic flux in the solenoid is insufficient to attract the core towards the pole piece, due to the spring force shown in Figure 2. Therefore the circuit breaker remains loaded and the circuit is energised.

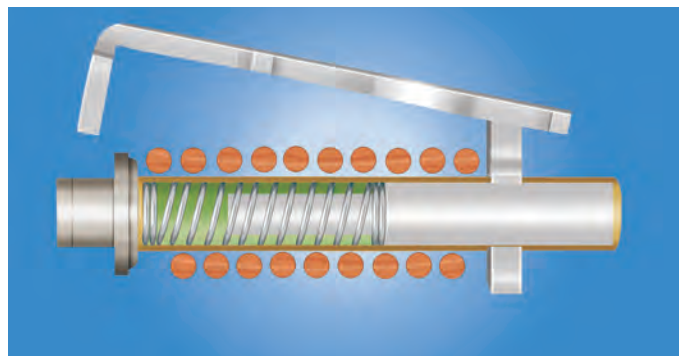


Figure 2: Rated Current or Less

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Overload

When an overload occurs, i.e. current I_s is greater than the circuit breaker's rating, the magnetic flux in the solenoid produces sufficient pull on the core to start its movement towards the pole piece. During this movement, the hydraulic fluid regulates the core's speed of travel, creating a controlled time delay inversely proportional to the magnitude of the current. This time delay is useful in that if the overload is of short duration, e.g. start-up of motors etc., the core returns to its rest position when the overload disappears (Figure 3).

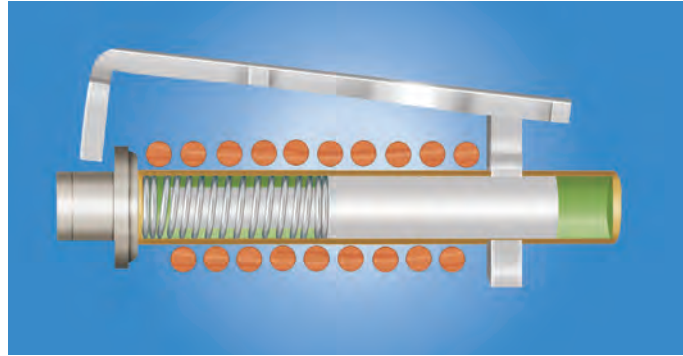


Figure 3: Overload Current (Time Delay)

If the overload persists, the core reaches the pole piece. As a result the reluctance of the magnetic circuit is reduced, so that the armature is attracted to the pole piece with sufficient force to collapse the latch mechanism (toggle), and trips the breaker (Figure 4). The contacts separate, the current ceases to flow and the core will then return to its rest position.

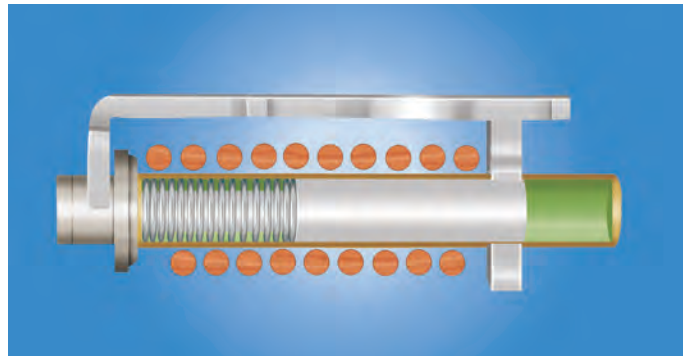


Figure 4: Overload Current (Trip)

Short Circuit

With high values of overloads or short circuit, the magnetic flux produced by the coil is sufficient to attract the armature to the pole face and trip the breaker even though the core has not moved. This is called the instantaneous trip region of the circuit breaker characteristic (Figure 5). Unlike thermal circuit breakers, the hydraulic-magnetic circuit breaker's trip point is unaffected by ambient temperature. After tripping, the breaker may be re-closed immediately since there is no cooling-down time necessary. By the nature of the principle of operation, it is possible to obtain any variation of time / current characteristic.

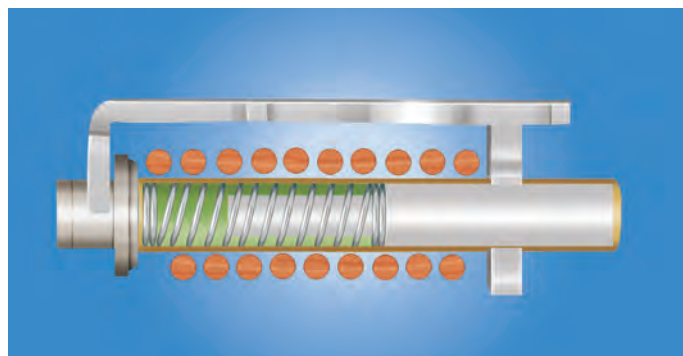


Figure 5: Instantaneous Trip

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South Africa
1401

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cbi@cbi-electric.com
Website: www.cbi-lowvoltage.com

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Website



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