










Photovoltaic and Battery Protection

Circuit Breakers for Equipment

Photovoltaic and Battery Protection

Series	Features	Mount	Recommended Application	Module Width	Voltage (up to)	Current (up to)
<b>DD-frame</b>  	<ul style="list-style-type: none"> <li>Hydraulic-magnetic Technology</li> <li>100% rated</li> <li>Configurable terminals and handle options</li> </ul>	Front Panel (64 mm)	High capacity battery 	1 19 mm	80 Vdc	100 A
				1+1 38 mm	80 Vdc	100 A
				2 38 mm	80 Vdc	200 A
				3 57 mm	80 Vdc	250 A
				4 76 mm	80 Vdc	350 A
<b>QDC(13)</b>  	<ul style="list-style-type: none"> <li>Hydraulic-magnetic Technology</li> <li>100% rated</li> <li>Trip indication (mid trip)</li> </ul>	DIN rail (45 mm)  Dual mount (57 mm) Fits DIN and mini rail	Battery (up to 80 Vdc*)   PV String 	1 13 mm	80 Vdc	63 A
					125 Vdc*	63 A
				2 26 mm	80 Vdc	100 A
					125 Vdc*	100 A
					250 Vdc*	50 A
3 39 mm	80 Vdc	150 A				
4 52 mm	80 Vdc	200 A				
<b>Y-frame</b>  	<ul style="list-style-type: none"> <li>Hydraulic-magnetic Technology</li> <li>100% rated</li> </ul>	DIN rail (45 mm)  Dual mount (57 mm) Fits DIN and mini rail	PV String 	1 13 mm	300 Vdc	50 A
				2 26 mm	600 Vdc	50 A
				1+1 26 mm	300 Vdc	50 A
				2+2 52 mm	600 Vdc	32 A

Watch this space for new products

\* QDC(13) 125 Vdc is polarised with respect to current flow and not recommended for battery storage

 or  = excellent

 or  = superior

Notes:

\* QDC(13) 125 Vdc is polarised with respect to current flow and not recommended for battery storage

## DC Range Overview



QY- Bridged



B-frame



C-frame



DD-frame



RAU

DC Range			
MCCB	Voltages	Current	Fault Level
B-Frame	24, 48, 65, 80 Vdc (300 Vdc - switch only, 10 A)	up to 30 A	0.6 kA
C-Frame MKIV	65, 80 Vdc	up to 50 A	4 kA
DD-Frame * (RAU option available)	80 Vdc	up to 400 A	10 kA
QY (13) *	80, 125 Vdc (250 Vdc up to 50 A)	up to 200 A	10 kA
JS25	80 Vdc	80 to 250 A	25 kA
JS25S	80 Vdc	300 to 750 A	20 kA
L20B	125 Vdc	800 to 1500 A	20 kA

### Notes:

Contact CBI for details.  
Full range's data sheets available on [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com).  
Standard discounts are not applicable.  
\* DIN rail option available.  
Do not remove factory-fitted bridge pieces.

**Insist on  
Approval  
Certificates!**





## B-Frame Series Circuit Breaker for Equipment Hydraulic-Magnetic



Product Type	B-Frame
Ambient Operating Temperature	-40°C to +85°C
Endurance	Minimum of 1000 operations with current (UL 489A Clause 12)* 6000 operations with current (UL 1077 Clause 22, UL 508 Clause 48)*
Dielectric Strength	1000 Vac plus twice the rated voltage for one minute (UL 489A Clause 8, UL 1077 Clause 23, UL 508 Clause 51)*
Rated Impulse Withstand Voltage	2.5 kV (IEC 60934 Clause 8.1.3.1.1)*
Weight	30 g single pole, 60 g double pole (unpacked)
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	50 G to IEC 60068-2-27
Vibration	10 G to MIL-STD-202F
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.
Accessories	Mounting accessories, legend plate

Product Type	Circuit Breaker	Circuit Breaker	Circuit Breaker	Switch
Approvals	UL 1077, DIN / EN 60934, GB17701, CE, UKCA, EAC	UL 489A, DIN / EN 60934, GB17701	GB14048.2	UL 508
Number of Poles	1, 2	1	1, 2	2 (Series)
Maximum Voltages	240 Vac, 65 Vdc	80 Vdc	48 Vdc	300 Vdc
Current Ratings	0.1 - 30 Aac, 0.1 - 25 Adc	0.1 - 30 Adc	0.5 - 15 Adc	15 Adc
Interrupting Capacity	1 kA @ 240 Vac 0.5 kA @ 65 Vdc	0.6 kA @ 80 Vdc 1.5 kA @ 65 Vdc (UL & GB only)	1 kA	-
DC Polarity	-	Polarity sensitive		

**Notes:**

Verify approvals for specific ratings in accordance with the relevant test certificates.

B-Frame		
Type	Poles	Price Ea. excl. VAT
B - FRAME	1	POR
	2	

Handle Configuration		
1	Standard	-
2	Rocker	POR
3	Illuminated Rocker	POR
4	Push-to-Reset	POR
5	Push-pull	POR

Circuit		
1	Series Trip	-
2	Relay Trip	POR
3	Shunt Trip	POR

Time Delay		
1	Standard	-
2	Inertia Wheel Curves	POR

Auxiliary Switches		
1	No Auxiliary Switch	-
2	Single Auxiliary Switch	POR

**Notes:**

POR - Price on Request.  
 Additional cost to be added after number of poles.  
 Contact CBI for details.  
 Please contact CBI for Amp Ratings not listed.  
 Full range's data sheets available on [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com).  
 Standard discounts are not applicable.

## Approvals

The B-Frame circuit breaker carries various approvals such as VDE, cURus, EAC, CCC and is CE certified. It is also recognised to UL 1077, UL 508 and listed to UL 489A.



## C-Frame MKIV Series Circuit Breaker for Equipment Hydraulic-Magnetic



Product Type	C-Frame MKIV
Ambient Operating Temperature	-40 °C to +85 °C
Endurance	10000 operations DC, 6000 operations AC (IEC60934 Clause 9.11)* 10000 operations, 6000 with current, 4000 without current (UL489 Clause 7.1.5)* As per UL489 or minimum of 1000 operations with current (UL489A Clause 12)*, 6000 operations with current (UL1077 Clause 22)*
Dielectric Strength	1000 - 2000 Vac for one minute (Clause 9.7)* 1000 Vac plus twice the rated voltage for one minute (UL489, Clause 7.1.9; UL489A Clause 8, UL1077 Clause 23)*
Weight	70 g per pole (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	I2 - No ignition at 850 °C with an oxygen index of ≥ 32
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.

Product Type	Circuit Breaker	Circuit Breaker	Circuit Breaker	Circuit Breaker
Approvals	UL 489	UL 489A	UL 1077	UL 1500
Number of Poles	1, 2	1, 2	1 - 4	1, 2
Maximum Voltages	120 Vac, 120 / 240 Vac	80 Vdc	240 Vac, 277 Vac 80 Vdc	120/240 Vac 65 Vdc, 32 Vdc
Current Ratings	0.05 - 20 Aac	0.05 - 50 Adc	0.05 - 50 A (AC & DC)	0.05 - 50 A (AC & DC)
Interrupting Capacity	5 kA	5 kA	2 kA (AC), 7.5 kA (DC)	1.5 kA, C1 & 3 kA, C1

Product Type	Circuit Breaker	Switch
Approvals	DIN/EN/IEC 60934, CE, UKCA, GB17701	UL 508
Number of Poles	1 - 4	1 - 4
Maximum Voltages	240 Vac, 80 Vdc	240 Vac, 277 Vac, 80 Vdc
Current Ratings	0.05 - 50 A (AC & DC)	50 A
Interrupting Capacity	2 kA (AC), 4 kA (DC)	-

**Notes:**

Verify approvals for specific ratings in accordance with the relevant test certificates.

C-Frame MKIV		
Type	Poles	Price Ea. excl. VAT
C - FRAME MKIV	1	POR
	2	
	3	
	4	

Handle Configuration		
1	Standard	-
2	Rocker	POR
3	DD Adaptor	POR

Circuit		
1	Series Trip	-
2	Relay Trip	POR
3	Shunt Trip	POR

Time Delay		
1	Standard	-
2	Inertia Wheel Curves	POR

Auxiliary Switches		
1	No Auxiliary Switch	-
2	Single Auxiliary Switch	POR

**Notes:**

POR - Price on Request.  
 Additional cost to be added after number of poles.  
 Contact CBI for details.  
 Please contact CBI for Amp Ratings not listed.  
 Full range's data sheets available on [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com).  
 Standard discounts are not applicable.

**Approvals**

The C-Frame MKIV is CE certified and carries various approvals such as VDE, cURus, EAC and CCC. It is also recognised to UL 1077, UL 1500 and UL 508, and listed to UL 489 and UL 489A.



## CFM / SFM-Frame Series Circuit Breaker for Equipment Hydraulic-Magnetic



Product Type	CFM / SFM(26)
Ambient Operating Temperature	-40 °C to +85 °C
Mounting Options	Clip tray, Front & Surface mounting
Time Delay Curves	1, 2, 3
Endurance	500 mechanical operations (AS/NZS 3111 Clause 7.7)
Dielectric Strength	2 kV (AS/NZS 3111 Clause 7.5.2)
Weight	200 g per pole, 260 g with auxiliary (unpacked)
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	50 g with pulse duration of 11 milliseconds
Vibration	5 g from 35 Hz to 200 Hz
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.

Product Type	Circuit Breaker (AC)				
Approvals	AS/NZS 3111				
Number of Poles	1	2 (1+N)	2	3	4 (3+N)
Operating Voltages	240 V ac		415 V ac		
Minimum Current Rating	4 A				
Maximum Current Rating	100 A				
Interrupting Capacity	6 kA				

Product Type	Circuit Breaker (DC)			
Number of Poles	1	2	3	4
Operating Voltages	125 Vdc			
Minimum Current Rating	1 A			
Maximum Current Rating	100 A			
Interrupting Capacity	6 kA			

Product Type	Switch Disconnecter (AC)			
Approvals	DIN / EN 60947-3			
Number of Poles	1	2	3	4
Operating Voltages	240 V ac	415 V ac		
Current Rating	63 A & 100 A			
Withstand Current	6 kA / 50 ms			

Notes:

Verify approvals for specific ratings in accordance with the relevant test certificates.

CFM / SFM-Frame		
Type	Poles	Price Ea. excl. VAT
CFM - FRAME	1	POR
	2	
	3	
	4	

Voltage & Terminal Construction		
<b>A</b>	AC, Back Connect Studs	POR
<b>G</b>	AC, Front Connect Box Term	POR
<b>D</b>	AC, Front Connect Screw Term	POR
<b>B</b>	DC, Back Connect Studs	POR
<b>H</b>	DC, Front Connect Box Term	POR
<b>E</b>	DC, Front Connect Screw Term	POR

Circuit		
<b>0</b>	Switch	POR
<b>1</b>	Overload with Auxiliary Switch	POR
<b>3</b>	Overload	-
<b>5</b>	Shunt Trip (3 terminal)	POR
<b>6</b>	Shunt Trip (4 terminal)	POR
<b>10</b>	Shunt Trip (flexible leads)	POR
<b>11</b>	Shunt Trip with Auxiliary Switch	POR
<b>13</b>	Switch with Auxiliary Switch	POR

Additional Features:		
<b>K</b>	Auxiliary OFF Contact	POR
<b>S</b>	Shunt Trip Attachment. (Fitted in an additional 26 mm pole)	POR

Time Delay		
<b>1</b>	Curve 1 (AS)	POR
<b>2</b>	Curve 2 (BS)	-
<b>3</b>	Curve 3 (CS)	-
<b>P</b>	No time delay (Instantaneous)	-

**Notes:**

POR - Price on Request.  
 Additional cost to be added after number of poles.  
 Contact CBI for details.  
 Please contact CBI for Amp Ratings not listed.  
 Full range's data sheets available on [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com).  
 Standard discounts are not applicable.

**Approvals**



AS/NZS 3111



## DD-Frame Frame Series Circuit Breaker for Equipment Hydraulic-Magnetic



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.

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)

Notes:

\* Refer to the standard for details

Verify approvals for specific ratings in accordance with the relevant test certificates.

DD-Frame		
Type	Poles	Price Ea. excl. VAT
DD - FRAME	1	POR
	2	
	3	
	4	

Handle Configuration		
1	Standard	-
2	Rocker	POR

Circuit		
1	Series Trip	-
2	Relay Trip	POR
3	Shunt Trip	POR

Time Delay		
1	Standard	-
2	Inertia Wheel Curves	POR

Auxiliary Switches		
1	No Auxiliary Switch	-
2	Single Auxiliary Switch	POR

Terminals		
1	Plug-in	POR
2	Flush Rear screw	-
3	Rear studs	-
4	Double Quick connect	-
5	Rail mount	POR

Factory-Fitted Modules		
1	No RAU	-
2	Remote Actuator Unit (RAU)	POR

**Notes:**

POR - Price on Request.  
 Additional cost to be added after number of poles.  
 Contact CBI for details.  
 Please contact CBI for Amp Ratings not listed.  
 Full range's data sheets available on [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com).  
 Standard discounts are not applicable.  
 Do not remove factory-fitted bridge pieces.

**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.



## T-Frame Frame Series Circuit Breaker for Equipment Hydraulic-Magnetic



Product Type	T-Frame
Ambient Operating Temperature	-40°C to +85°C
Mounting Options	Front mounting, rectangular aperture and flush rocker handle type
Endurance	10000 operations; 1500 with current, 8500 without current (IEC60947-2 Clause 7.2.4.2)* 10000 operations; 6000 with current, 4000 without current (UL489 Clause 7.1.5)* 6000 operations with current (UL1077 Clause 22)*
Dielectric Strength	1000 - 2000 Vac for one minute (IEC60947-2 Clause 8.3.3.3)* 1000 Vac plus twice the rated voltage for one minute (UL489 Clause 7.1.9)* 1000 Vac plus twice the rated voltage for one minute (UL1077 Clause 23)*
Rated Impulse Withstand Voltage	4 kV (IEC60947-2 Clause 8.3.3.2)*
Weight	90 g per pole (unpacked)
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
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.

Product Type	Circuit Breaker	Circuit Breaker
Approvals	UL489	DIN/EN 60947-2, GB/T14048.2, CE, UKCA
Number of Poles	1, 2	1, 2
Maximum Voltages	120 / 240 Vac, 120 Vdc, 240 Vac, 80 Vdc	240 Vac, 80 Vdc
Current Ratings	0.1 - 30 A (AC) 0.1 - 30 A (DC)	0.1 - 30 A (AC) 0.1 - 30 A (DC)
Interrupting Capacity	5 kA	5 kA (DC & AC)
AIC	10 kA	

**Notes:**

\* Refer to the standard for details

Verify approvals for specific ratings in accordance with the relevant test certificates.

T-Frame		
Type	Poles	Price Ea. excl. VAT
T - FRAME	1	POR
	2	
	3	
	4	

Handle Configuration		
1	Standard	-
2	Rocker	STD
3	Illuminated Rocker	N/A

Circuit		
1	Series Trip	-
2	Relay Trip	N/A
3	Shunt Trip	N/A

Time Delay		
1	Standard	-
2	Inertia Wheel Curves	POR

Auxiliary Switches		
1	No Auxiliary Switch	N/A
2	Single Auxiliary Switch	N/A

**Notes:**

POR - Price on Request.  
 Additional cost to be added after number of poles.  
 Contact CBI for details.  
 Please contact CBI for Amp Ratings not listed.  
 Full range's data sheets available on [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com).  
 Standard discounts are not applicable.

**Approvals**

The T-Frame circuit breaker carries various approvals such as DIN/EN 60947-2, GB14048.2, VDE, cURus and is CE certified. It is also recognised and listed to UL489.



## QDC Series Circuit Breaker for Equipment Hydraulic-Magnetic



Product Type	QDC
Ambient Operating Temperature	-40 °C to +85 °C
Mounting Options	Dual (DIN & mini rail) mount & DIN rail mount
Time Delay Curves	1, 9, U2, U3, OP
Endurance	10000 operations - 1500 with current, 8500 without current (IEC 60947-2 Clause 7.2.4.2)*
Dielectric Strength	1000 - 2000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)*
Rated Impulse Withstand Voltage	4 kV (IEC 60947-2 Clause 8.3.3.2)*
Weight	102 g per pole, 160 g with auxiliary (unpacked)
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	16 G (IEC 60068-2-27)
Vibration	2 G (IEC 60068-2-6) (sinusoidal wave)
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.

Approvals	DIN / EN 60947-2, VDE						
Number of Poles	1	2	2 parallel	2 parallel	3 parallel	2 series	4 parallel
Operating Voltages	80 Vdc, 125 Vdc		80 Vdc	125 Vdc	80 Vdc	250 Vdc	80 Vdc
Minimum Current Rating	0.1 A	0.1 A	30 A	30 A	110 A	0.1 A	200 A
Maximum Current Rating	63 A	50 A	100 A	100 A	150 A	50 A	200 A
Ultimate S/C Breaking Capacity (Icu)	10 kA						

Approvals	GB 14048.2						
Number of Poles	1	2	2 parallel	2 parallel	3 parallel	2 series	4 parallel
Operating Voltages	80 Vdc, 125 Vdc		80 Vdc	125 Vdc	80 Vdc	250 Vdc	80 Vdc
Minimum Current Rating	0.1 A	0.1 A	30 A	30 A	110 A	0.1 A	200 A
Maximum Current Rating	63 A	50 A	100 A	100 A	150 A	50 A	200 A
Ultimate S/C Breaking Capacity (Icu)	10 kA						

**Notes:**

\* Refer to the standard for details

Verify approvals for specific ratings in accordance with the relevant test certificates.

**QDC Range: 80 Vdc Circuit Breakers, 10 kA, Curve U2, Dual Mount and DIN rail mount**

Type	Poles	Voltage	kA	MCB Width (mm)	Rating (A)	Price Ea. excl. VAT	Order No.
QDC-1(13)-DM-U2-5A-B0 (Grey Handle)	1	80 Vdc	10	13 (1 Module)	5, 6	POR	QDC18U2..B0
					10, 15, 20		
					25, 30, 35, 40		
					45, 50, 60		
QDC-2(13)-DM-U2-5A-B0 (Grey Handle)	2	80 Vdc	10	26 (2 Module)	5		QDC28U2..B0
					10, 15, 20		
					25, 30, 35, 40		
					45, 50, 60		
QDC-2(13)-DM-U2-080A-B0-ZL (Grey Handle) <sup>1</sup>	2 (Parallel)	80 Vdc	10	26 (2 Module)	80		QDC28U2...B0ZL
					100		
QDC-3(13)-DM-U2-125A-B0-ZL (Grey Handle) <sup>1</sup>	3 (Parallel)	80 Vdc	10	39 (3 Module)	125		QDC38U2...B0ZL
					150		
QDC-4(13)-DM-U2-200A-B0-ZL (Grey Handle) <sup>1</sup>	4 (Parallel)	80 Vdc	10	52 (4 Module)	200	QDC49U2200B0ZL	

**QDC Range: 125 Vdc Circuit Breakers, 10 kA, Curve U2, Dual Mount and DIN rail mount**

Type	Poles	Voltage	kA	MCB Width (mm)	Rating (A)	Price Ea. excl. VAT	Order No.
QDC-1(13)-DM-U2-5A-B1 (Grey Handle)	1	125 Vdc	10	13 (1 Module)	5	POR	QDC18U2..B1
					10, 15, 20		
					25, 30, 35, 40		
					45, 50, 60		
QDC-2(13)-DM-U2-5A-B1 (Grey Handle)	2	125 Vdc	10	26 (2 Module)	5		QDC28U2..B1
					10, 15, 20		
					25, 30, 35, 40		
					45, 50, 60		
QDC-2(13)-DM-U2-080A-B1-ZL (Grey Handle) <sup>1</sup>	2 (Parallel)	125 Vdc	10	26 (2 Module)	80		QDC28U2...B1ZL
					100		
QDC-3(13)-DM-U2-125A-B1-ZL (Grey Handle) <sup>1</sup>	3 (Parallel)	125 Vdc	10	39 (3 Module)	125, 150		QDC38U2...B1ZL

Notes:

- POR - Price on Request.
- Contact CBI for details.
- Please contact CBI for Amp Ratings not listed.
- Full range's data sheets available on [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com).
- Standard discounts are not applicable.
- \* DIN rail option available.
- 1. Do not remove factory-fitted bridge pieces.

Approvals



## QL Series Circuit Breaker for Equipment Hydraulic-Magnetic



Product Type	QL
Ambient Operating Temperature	-40°C to +85°C
Mounting Options	DIN rail mount, Dual (DIN & mini rail) mount, Surface mounting clip
Time Delay Curves	1, 3, 9, KM, OP
Endurance	10000 operations; 1500 electrical at rated current, 8500 without current (IEC 60947-2 Clause 7.2.4.2)* 6000 electrical operations (UL 489 Clause 7.1.9)*
Dielectric Strength	1000 - 2000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)* 1000 Vac plus twice the rated voltage for one minute (UL 489 Clause 7.1.9)*
Rated Impulse Withstand Voltage	4 kV (IEC 60947-2)
Weight	102 g per pole, 160 g with auxiliary (unpacked)
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	8 G (IEC 60068-2-27)
Vibration	0.5 G (IEC 60068-2-6) (sinusoidal wave)
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.

Product Type	Circuit Breaker			
Approvals	UL 489			
Number of Poles	1	1	2	2 & 3
Operating Voltages	120 Vac	240 Vac	120 / 240 Vac	240 Vac
Minimum Current Rating	0.5 A			
Maximum Current Rating	25 A	20 A	25 A	25 A
Ampere Interrupting Capacity (AIC)	10 kA	5 kA	10 kA	10 kA

Product Type	Circuit Breaker				
Approvals	DIN / EN 60947-2, CE, UKCA				
Number of Poles	1	2 (1+N)	2	3	4 (3+N)
Operating Voltages	240 Vac		415 Vac		
Minimum Current Rating	0.5 A				
Maximum Current Rating	25 A				
Ultimate S/C Breaking Capacity (Icu)	6 kA				

Product Type	Circuit Breaker				
Approvals	GB 14048.2				
Number of Poles	1	2 (1+N)	2	3	4 (3+N)
Operating Voltages	240 Vac		415 Vac		
Minimum Current Rating	1 A				
Maximum Current Rating	25 A				
Specific Ratings (Verify Certification)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 16, 20, 25 A				
Ultimate S/C Breaking Capacity (Icu)	6 kA				

**Notes:**

\* Refer to the standard for details

Verify approvals for specific ratings in accordance with the relevant test certificates.

**QL Range: 240 / 415 Vac Circuit Breakers, 6 kA, Curve 1, 3, 9, KM & OP Dual Mount and DIN rail mount**

Type	Poles	Voltage	kA	MCB Width (mm)	Rating (A)	Price Ea. excl. VAT	Order No.		
QL-1(13)-DM-C1-5A	1	240 Vac	6	13 (1 Module)	0.5, 1, 2, 3, 4, 5	POR	QL18.. *QLD18..		
					6, 7, 8, 9, 10, 12, 15				
					16, 20, 25				
QL-2(13)-DM-C1-5A	2	415 Vac	6	26 (2 Modules)	0.5, 1, 2, 3, 4, 5		POR	QL28.. *QLD28..	
					6, 7, 8, 9, 10, 12, 15				
					16, 20, 25				
QL-3(13)-DM-C1-5A	3	415 Vac	6	39 (3 Modules)	0.5, 1, 2, 3, 4, 5			POR	QL38.. *QLD38..
					6, 7, 8, 9, 10, 12, 15				
					16, 20, 25				

**Notes:**

POR - Price on Request.  
 Auxiliary switch modules priced separately.  
 Contact CBI for details.  
 Please contact CBI for Amp Ratings not listed.  
 Full range's data sheets available on [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com).  
 Standard discounts are not applicable.  
 \* DIN rail option.

**Approvals**





## QT Series Circuit Breaker for Equipment Hydraulic-Magnetic



Product Type	QT(26)
Ambient Operating Temperature	-40 °C to +85 °C
Mounting Options	Dual (DIN & mini rail) mount
Time Delay Curves	1, U2
Endurance	10000 operations - 1500 with current, 8500 without current (IEC 60947-2 Clause 7.2.4.2)* Minimum of 1000 operations with current (UL 489A Clause 12)*
Dielectric Strength	1000 - 2000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)* 1000 Vac plus twice the rated voltage for one minute (UL 489A Clause 8)*
Rated Impulse Withstand Voltage	4 kV (IEC 60947-2 Clause 8.3.3.2)*
Weight	200 g per pole (unpacked)
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	50 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.

Product Type	Circuit Breaker			
Approvals	UL 489A, CSA C22.2 No. 5 -16			
Number of Poles	1	2	2 pole bridged	4 pole (2pole + 2pole) Parallel Bridged
Operating Voltages	80 Vdc			
Standard Current Rating	70 A to 125 A		250 A	250 A
Interrupting S/C Capacity (Ics)	10 kA			

Product Type	Circuit Breaker			
Approvals	GB14048-2, DIN / EN 60947-2, CE, UKCA			
Number of Poles	1	2	2 pole bridged	4 pole (2pole + 2pole) Parallel Bridged
Operating Voltages	80 Vdc			
Minimum Current Rating	70 A		140 A	
Maximum Current Rating	125 A		250 A	
Interrupting S/C Capacity (Ics)	5 kA			
Ultimate S/C Breaking Capacity (Icu)	10 kA			

Product Type	Circuit Breaker			
Approvals	AS / NZS 60947-2			
Number of Poles	1	2	2 pole bridged	4 pole (2pole + 2pole) Parallel Bridged
Operating Voltages	80 Vdc			
Minimum Current Rating	70 A		140 A	
Maximum Current Rating	125 A		250 A	
Interrupting S/C Capacity (Ics)	5 kA		2.5 kA	
Ultimate S/C Breaking Capacity (Icu)	10 kA			

**Notes:**

\* Refer to the standard for details

Verify approvals for specific ratings in accordance with the relevant test certificates.

QT Range: 80 Vdc Circuit Breakers, 10 kA, Curve U2, Dual Mount and Surface Mount							
Type	Poles	Voltage	kA	MCB Width (mm)	Rating (A)	Price Ea. excl. VAT	Order No.
QT-1(26)-DM-U2-70A-B0 (White Handle)	1	80 Vdc	10	26 (1 Module)	70, 80	POR	QT18U2...B0
					90, 100		
					125		
QT-2(26)-DM-U2-70A-B0 (White Handle)	2	80 Vdc	10	52 (2 Module)	70, 80		QT28U2...B0
					90, 100		
					125		
QT-2(26)-DM-U2-200A-B0-ZL (White Handle) <sup>1</sup>	2 (Parallel)	80 Vdc	10	52 (2 Module)	200		QT29U2200B0ZL
QT-2(26)-DM-U2-250A-B0-ZL (White Handle) <sup>1</sup>	2 (Parallel)	80 Vdc	10	52 (2 Module)	250	QT28U2250B0ZL	

**Notes:**

POR - Price on Request.  
 Contact CBI for details.  
 Please contact CBI for Amp Ratings not listed.  
 Full range's data sheets available on [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com).  
 Standard discounts are not applicable.  
 1. Do not remove factory-fitted bridge pieces.

**Approvals**



AS / NZS 60947-2

## QY Series Circuit Breaker for Equipment Hydraulic-Magnetic



Product Type	QY
Ambient Operating Temperature	-40 °C to +85 °C
Mounting Options	Dual (DIN & mini rail) mount, Surface mounting clip
Time Delay Curves	1, 9, U2, U3, OP
Endurance	10000 operations - 1500 with current, 8500 without current (IEC 60947-2 Clause 7.2.4.2)* Minimum of 1000 operations with current (UL 489A Clause 12)*
Dielectric Strength	1000 - 2000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)* 1000 Vac plus twice the rated voltage for one minute (UL 489A Clause 8)*
Rated Impulse Withstand Voltage	4 kV (IEC 60947-2 Clause 8.3.3.2)*
Weight	102 g per pole, 160 g with auxiliary (unpacked)
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	16 G (IEC 60068-2-27)
Vibration	2 G (IEC 60068-2-6) (sinusoidal wave)
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.

Approvals	DIN / EN 60947-2						
Number of Poles	1	2	2 parallel	2 parallel	3 parallel	4 parallel	2 series
Operating Voltages	80 Vdc, 125 Vdc		80 Vdc	125 Vdc	80 Vdc		250 Vdc
Minimum Current Rating	0.1 A	0.1 A	30 A	30 A	110 A	200 A	0.1 A
Maximum Current Rating	63 A	50 A	100 A	100 A	150 A	200 A	50 A
Ultimate S/C Breaking Capacity (Icu)	10 kA						

Approvals	UL 489A, CSA C22.2 No. 5 - 16							
Number of Poles	1	2	2 parallel	2 parallel	3 parallel	4 parallel	2 series	4 series
Operating Voltages	80 Vdc, 125 Vdc		80 Vdc	125 Vdc	80 / 125 Vdc	80 Vdc	250 Vdc	600 Vdc
Minimum Current Rating	0.1 A	0.1 A	30 A	20 A	110 A	200 A	0.1 A	0.1 A
Maximum Current Rating	63 A	50 A	100 A	100 A	150 A	200 A	50 A	20 A
Ampere Interrupting Capacity (AIC)	10 kA							

Approvals	GB 14048.2						
Number of Poles	1	2	2 parallel	2 parallel	3 parallel	4 parallel	2 series
Operating Voltages	80 Vdc, 125 Vdc		80 Vdc	125 Vdc	80 Vdc		250 Vdc
Minimum Current Rating	0.1 A	0.1 A	30 A	30 A	110 A	200 A	0.1 A
Maximum Current Rating	63 A	50 A	100 A	100 A	150 A	200 A	50 A
Ultimate S/C Breaking Capacity (Icu)	10 kA						

Notes:

\* Refer to the standard for details

Verify approvals for specific ratings in accordance with the relevant test certificates.

QY Range: 80 Vdc Circuit Breakers, 10 kA, Curve U2, Dual Mount and DIN rail mount							
Type	Poles	Voltage	kA	MCB Width (mm)	Rating (A)	Price Ea. excl. VAT	Order No.
QY-1(13)-DM-U2-5A-B0 (White Handle)	1	80 Vdc	10	13 (1 Module)	5, 6	POR	QY18U2..B0 *QYD18U2..B0
					10, 15, 16, 20		
					25, 30, 32, 35, 40		
					45, 50, 60		
QY-2(13)-DM-U2-5A-B0 (White Handle)	2	80 Vdc	10	26 (2 Module)	5, 6	POR	QY28U2..B0 *QYD28U2..B0
					10, 15, 16, 20		
					25, 30, 32, 35, 40		
					45, 50, 60		
QY-2(13)-DM-U2-080A-B0-ZL (White Handle) <sup>1</sup>	2 (Parallel)	80 Vdc	10	26 (2 Module)	80	POR	QY28U2...B0ZL *QYD28U2...B0ZL
					100		
QY-3(13)-DM-U2-080A-B0-ZL (White Handle) <sup>1</sup>	3 (Parallel)	80 Vdc	10	39 (3 Module)	125	POR	QY38U2...B0ZL *QYD38U2...B0ZL
					150		
QY-4(13)-DM-U2-200A-B0-ZL (White Handle) <sup>1</sup>	4 (Parallel)	80 Vdc	10	52 (4 Module)	200	POR	QY49U2200B0ZL *QYD49U2200B-0ZL

QY Range: 125 Vdc Circuit Breakers, 10 kA, Curve U2, Dual Mount and DIN rail mount							
Type	Poles	Voltage	kA	MCB Width (mm)	Rating (A)	Price Ea. excl. VAT	Order No.
QY-1(13)-DM-U2-5A-B1 (White Handle)	1	125 Vdc	10	13 (1 Module)	5, 6	POR	QY18U2..B1 *QYD18U2..B1
					10, 15, 16, 20		
					25, 30, 32, 35, 40		
					45, 50, 60		
QY-2(13)-DM-U2-5A-B1 (White Handle)	2	125 Vdc	10	26 (2 Module)	5, 6	POR	QY28U2..B1 *QYD28U2..B1
					10, 15, 16, 20		
					25, 30, 32, 35, 40		
					45, 50, 60		
QY-2(13)-DM-U2-080A-B1-ZL (White Handle) <sup>1</sup>	2 (Parallel)	125 Vdc	10	26 (2 Module)	80	POR	QY28U2...B1ZL *QYD28U2...B1ZL
					100		
QY-3(13)-DM-U2-080A-B1-ZL (White Handle) <sup>1</sup>	3 (Parallel)	125 Vdc	10	39 (3 Module)	125	POR	QY38U2...B1ZL *QYD38U2...B1ZL
					150		

QY Range: 250 Vdc Circuit Breakers, 10 kA, Curve U2, Dual Mount and DIN rail mount							
Type	Poles	Voltage	kA	MCB Width (mm)	Rating (A)	Price Ea. excl. VAT	Order No.
QY-2(13)-DM-U2-5A-B2-ZL (White Handle)	2	250 Vdc	10	26 (2 Module)	5	POR	QY28U2..B2ZL *QYD28U2..B2ZL
					10, 15, 20		
					25, 30, 35, 40		
					45, 50		

Notes:

- POR - Price on Request.
- Auxiliary switch modules and trip alarm switch modules priced separately.
- Contact CBI for details.
- Please contact CBI for Amp Ratings not listed.
- Full range's data sheets available on [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com).
- Standard discounts are not applicable.
- \* DIN rail option.
- 1. Do not remove factory-fitted bridge pieces.

Approvals



(IEC 60947-2)



## QZ Series Circuit Breaker for Equipment Hydraulic-Magnetic



Product Type	QZ
Ambient Operating Temperature	-40 °C to +85 °C
Mounting Options	DIN rail, Dual (DIN & mini rail) mounting, Surface mounting clip
Time Delay Curves	1, 2, 3, 9, OP
Endurance	10000 operations - 1500 with current, 8500 without current (IEC 60947-2 Clause 7.2.4.2)* 6000 operations with current (UL 1077 Clause 22)*
Dielectric Strength	1000 - 2000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)* 1000 Vac plus twice the rated voltage for one minute (UL 1077 Clause 23)*
Rated Impulse Withstand Voltage	4 kV (IEC 60947-2)
Weight	102 g per pole, 160 g with auxiliary (unpacked)
Altitude	Certification tests done at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	16 G (IEC 60068-2-27)
Vibration	2 G (IEC 60068-2-6) (sinusoidal wave)
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.

Product Type	Supplementary Protector						
Approvals	UL 1077						
	Tested with series fuse					Tested without series fuse	
Number of Poles	1	1	2	3	3	1	3
Operating Voltages	120 Vac	277 Vac	480 Vac	240 Vac	277 / 480 Vac	120 Vac	240 Vac
Minimum Current Rating	0.1 A					1 A	
Maximum Current Rating	60 A					50 A	
Specific Ratings (Verify Certification)	0.1, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 16, 20, 25, 30, 35, 40, 45, 50, 60 A						
Short Circuit Capacity (Ics)	5 kA					5 kA	

Product Type	Circuit Breaker				
Approvals	DIN / EN 60947-2, EAC, CE, UKCA				
Number of Poles	1	2 (1+N)	2	3	4 (3+N)
Operating Voltages	240 Vac			415 Vac	
Minimum Current Rating	5 A				
Maximum Current Rating	50 A				
Specific Ratings (Verify Certification)	5, 6, 7, 8, 9, 10, 12, 15, 16, 20, 25, 30, 35, 40, 45, 50 A				
Ultimate S/C Breaking Capacity (Icu)	3 kA				

**Notes:**

\* Refer to the standard for details

Verify approvals for specific ratings in accordance with the relevant test certificates.

**QZ Range: 240 / 415 Vac Circuit Breakers, 3 kA, Curve 2 & 3, Dual Mount and DIN rail mount**

Type	Poles	Voltage	kA	MCB Width (mm)	Rating (A)	Price Ea. excl. VAT	Order No.
QZ-1(13)-DM-C2-5A (White Handle)	1	240 Vac	3	13 (1 Module)	5, 6	PDR	QZ182.. QZ183..
					10, 15, 16, 20		
					25, 30, 35, 40		
					45, 50		
QZ-2(13)-DM-C2-5A (White Handle)	2	415 Vac	3	26 (2 Modules)	5, 6	PDR	QZ282.. QZ283..
					10, 15, 16, 20		
					25, 30, 35, 40, 45, 50		
QZ-3(13)-DM-C2-5A (White Handle)	3	415 Vac	3	39 (3 Modules)	5, 6	PDR	QZ382.. QZ383..
					10, 15, 16, 20		
					25, 30, 35, 40, 45, 50		
QZ-N-2(13)-DM-C2-5A (White/Green Handle)	1 + N	240 Vac	3	26 (2 Modules)	5, 6, 10, 15, 16, 20 25, 30, 35, 40, 45, 50	PDR	QZ212.. QZ213..
QZ-N-4(13)-DM-C2-5A (White/Green Handle)	3 + N	415 Vac	3	52 (4 Modules)	5, 6, 10, 15, 16, 20 25, 30, 35, 40, 45, 50		QZ412.. QZ413..

**QZ Range: 240 / 415 Vac Circuit Breakers, 3 kA, Curve 1, Dual Mount and DIN rail mount**

Type	Poles	Voltage	kA	MCB Width (mm)	Rating (A)	Price Ea. excl. VAT	Order No.
QZ-1(13)-DM-C1-5A (Orange Handle)	1	240 Vac	3	13 (1 Module)	5, 6, 10, 15, 16, 20	PDR	QZ181..
					25, 30, 35, 40, 45, 50		
QZ-2(13)-DM-C1-5A (Orange Handle)	2	415 Vac	3	26 (2 Modules)	5, 6, 10, 15, 16, 20	PDR	QZ281..
					25, 30, 35, 40, 45, 50		
QZ-3(13)-DM-C1-5A (Orange Handle)	3	415 Vac	3	39 (3 Modules)	5, 6, 10, 15, 16, 20	PDR	QZ381..
					25, 30, 35, 40, 45, 50		
QZ-N-2(13)-DM-C1-5A (Orange/Green Handle)	1 + N	240 Vac	3	26 (2 Modules)	5, 6, 10, 15, 16, 20 25, 30, 35, 40, 45, 50	PDR	QZ211..
QZ-N-4(13)-DM-C1-5A (Orange/Green Handle)	3 + N	415 Vac	3	52 (4 Modules)	5, 6, 10, 15, 16, 20 25, 30, 35, 40, 45, 50		QZ411..

**Notes:**

POR - Price on Request.  
 Auxiliary switch modules priced separately.  
 Contact CBI for details.  
 Please contact CBI for Amp Ratings not listed.  
 Full range's data sheets available on [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com).  
 Standard discounts are not applicable.  
 \* DIN rail option available.

**Approvals**



## YA-Frame Series Circuit Breaker for Equipment Hydraulic-Magnetic



Product Type	Circuit Breaker YA
Ambient Operating Temperature	-40°C to +85°C
Mounting Options	Dual (DIN and Mini rail), DIN rail mount
Time Delay Curves	Various
Endurance	10000 operations; 1500 with current, 8500 without current (IEC 60947-2 Clause 7.2.4.2)* Minimum of 1000 operations with current (UL 489A Clause 12)*
Dielectric Strength	1000 - 2000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)* 1000 Vac plus twice the rated voltage for one minute (UL 489A Clause 8)*
Rated Impulse Withstand Voltage	4 kV (IEC 60947-2 Clause 8.3.3.2)*
Weight	110 g per pole
Altitude	Certification tests conducted at altitude ≈ 2000 metres. Will operate at higher altitudes.
Shock	20 G (IEC 60068-2-27)
Vibration	3 G (IEC 60068-2-6) (sinusoidal wave)
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.

Product Type	Circuit Breaker YA, Polarised Product		
Approvals	IEC 60947-2, GB14048.2, CE, UKCA, AS/NZS 60947-2		
Number of Poles	1 Pole	2 Pole	4 (2 pole in series + 2 pole in series)
Operating Voltages & Interrupting Capacity	300 Vdc @ 6 kA	300 Vdc @ 6 kA 600 Vdc @ 6 kA (Series)	400 Vdc @ 6 kA
Minimum Current Rating	0.5 A	0.5 A	0.5 A
Maximum Current Rating	50 A	50 A	32 A

Product Type	Circuit Breaker YA, Polarised Product		
Approvals	UL 489A, CSA C22.2 No. 5-16		
Number of Poles	1 & 2 Poles	2 Pole in series	4 (2 Pole in series + 2 Pole in series)
Operating Voltages & Interrupting Capacity	300 Vdc @ 10 kA	600 Vdc @ 5 kA	400 Vdc @ 10 kA
Minimum Current Rating	0.5 A	0.5 A	0.5 A
Maximum Current Rating	50 A	50 A	32 A

**Notes:**

\* Refer to the standard for details

Verify approvals for specific ratings in accordance with the relevant test certificates.

**YA-Frame: 300 Vdc DC Circuit Breakers, 6 kA, Curve U2, Dual Mount 57 mm Escutcheon**

Type	Poles	Rating (A)	Price Ea. excl. VAT	BOM Number
YAK-1(13) 300 Vdc	1	3 A - 50 A	POR	YAK1M0__B03
YAK-2(13) 300 Vdc	2	3 A - 50 A		YAK2M0__B03

**YA-Frame: 300 Vdc DC Circuit Breakers, 6 kA, Curve U2, DIN Rail Mount 45 mm Escutcheon\***

Type	Poles	Rating (A)	Price Ea. excl. VAT	BOM Number
YAD-1(13) 300 Vdc	1	3 A - 50 A	POR	YAD1M0__B03
YAD-2(13) 300 Vdc	2	3 A - 50 A		YAD2M0__B03

**YA-Frame: 600 Vdc DC Circuit Breakers, 6 kA, Curve U2, Dual Mount 57 mm Escutcheon**

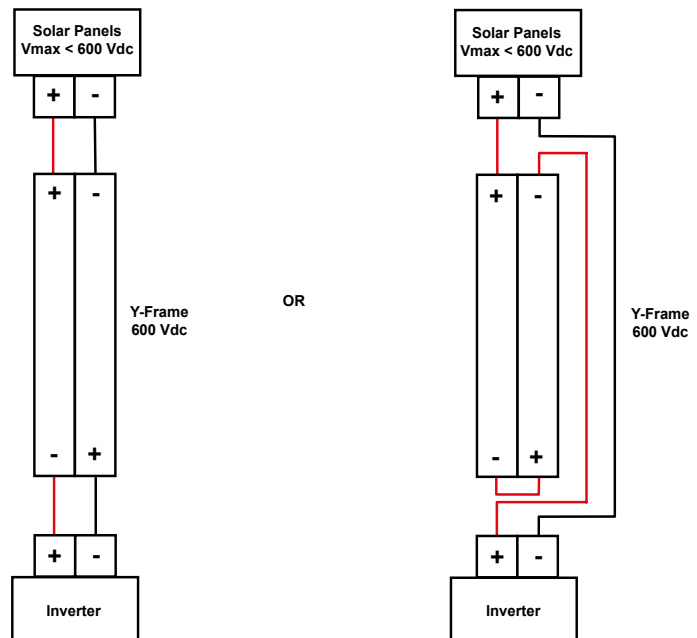
Type	Poles	Rating (A)	Price Ea. excl. VAT	BOM Number
YAK-2(13) 600 Vdc	2 (Series)	3 A - 50 A	POR	YAK2M0__BT6
YAK-4(13) 600 Vdc	2+2 (Series)	1 A - 50 A		YAK4M0__BT6

**YA-Frame: 600 Vdc DC Circuit Breakers, 6 kA, Curve U2, DIN Rail Mount 45 mm Escutcheon\***

Type	Poles	Rating (A)	Price Ea. excl. VAT	BOM Number
YAD-2(13) 600 Vdc	2 (Series)	3 A - 50 A	POR	YAD2M0__BT6
YAD-4(13) 600 Vdc	2+2 (Series)	1 A - 50 A		YAD4M0__BT6

**Notes:**

POR - Price on Request.  
 Auxiliary switch modules priced separately.  
 Contact CBI for details.  
 Please contact CBI for Amp Ratings not listed.  
 Full range's data sheets available on [www.cbi-lowvoltage.com](http://www.cbi-lowvoltage.com).  
 Standard discounts are not applicable.  
 \* DIN rail option.  
 Do not remove factory-fitted bridge pieces.



**Approvals**

