

DC Range Overview



QY- Bridged



B-frame



C-frame



DD-frame



RAU

| DC Range | | | |
|--|---|---------------|--|
| MCCB | Voltages | Current | Fault Level |
| B-frame | 48, 65, 80 Vdc (300 Vdc - switch only, 10 A) | up to 30 A | 0.5 kA @ 65 Vdc 0.6 kA @ 80 Vdc |
| C-frame MKIV | 32, 65, 80 Vdc | up to 50 A | 4 kA @ 80 Vdc |
| DD-frame * (RAU option available) | 60, 80 Vdc (125 Vdc up to 60 A) | up to 400 A | 5 kA @ 60 Vdc, 125 Vdc 10 kA @ 80 Vdc |
| 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.
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 1 000 operations with current (UL 489A Clause 12)* 6 000 operations with current (UL 1077 Clause 22, UL 508 Clause 48)* |
| Dielectric Strength | 1 000 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 ≈ 2 000 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| Flammability | I3 - Ignition does not persist at 850°C after glow wire is withdrawn with an oxygen index of ≥ 28 |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, GB 17701, CE, UKCA, EAC | UL 489A, DIN/EN 60934, GB 17701 | GB 14048.2 | 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 | | K6 |
|---------|-------|------------------------|
| Type | Poles | Price Ea. excl. VAT |
| B-FRAME | 1 | POR |
| | 2 | |

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

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

| 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
 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 | 10 000 operations DC; 6 000 operations AC (IEC 60934 Clause 9.11)* 10 000 operations; 6 000 with current, 4 000 without current (UL 489 Clause 7.1.5)* As per UL 489 or minimum of 1 000 operations with current (UL 489A Clause 12)*, 6 000 operations with current (UL 1077 Clause 22)* |
| Dielectric Strength | 1 000 - 2 000 Vac for one minute (Clause 9.7)* 1 000 Vac plus twice the rated voltage for one minute (UL 489, Clause 7.1.9; UL 489A Clause 8, UL 1077 Clause 23)* |
| Weight | 70 g per pole (unpacked) |
| Altitude | Certification tests done at altitude ≈ 2 000 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, GB 17701 | 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 | | K6 |
|--------------|-------|------------------------|
| Type | Poles | Price Ea. excl. VAT |
| C-FRAME MKIV | 1 | POR |
| | 2 | |
| | 3 | |
| | 4 | |

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

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

| 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.
 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 ≈ 2 000 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 Vac | | 415 Vac | | |
| 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 Vac | 415 Vac | | |
| 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 | | K6 |
|---------------|-------|------------------------|
| Type | Poles | Price Ea. excl. VAT |
| CFM-FRAME | 1 | POR |
| | 2 | |
| | 3 | |
| | 4 | |

| Voltage & Terminal Construction | | |
|---------------------------------|------------------------------|-----|
| A | AC, Back Connect Studs | POR |
| G | AC, Front Connect Box Term | - |
| D | AC, Front Connect Screw Term | - |
| B | DC, Back Connect Studs | POR |
| H | DC, Front Connect Box Term | - |
| E | DC, Front Connect Screw Term | - |

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

| Time Delay | | |
|------------|-------------------------------|-----|
| 1 | Curve 1 (AS) | POR |
| 2 | Curve 2 (BS) | - |
| 3 | Curve 3 (CS) | - |
| P | No time delay (Instantaneous) | - |

| Additional Features: | | |
|----------------------|---|-----|
| K | Auxiliary OFF Contact | POR |
| S | Shunt Trip Attachment. (Fitted in an additional 26 mm pole) | |

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.

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 | 10 000 operations; 1 500 with current, 8 500 without current (IEC 60947-2 Clause 7.2.4.2)* 1 000 operations DC; 6 000 operations AC (IEC 60934 Clause 9.11)* 10 000 operations; 6 000 with current, 4 000 without current (UL 489 Clause 7.1.5)* As per UL 489 or minimum of 1 000 operations with current (UL 489 A Clause 12)* 6 000 operations with current (UL 1077 Clause 22)* |
| Dielectric Strength | 1 000 - 2 000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3, IEC 60934 Clause 9.7)* 1 000 Vac plus twice the rated voltage for one minute (UL 489 Clause 7.1.9, UL 489A Clause 8, UL 1077 Clause 23)* |
| Rated Impulse Withstand Voltage | 4 kV (IEC 60947-2 Clause 8.3.3.2)* |
| Weight | 102 g per pole, 160 g with auxiliary switch (unpacked) |
| Altitude | Certification tests done at altitude ≈ 2 000 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, GB 14048.2, CE, UKCA | IEC/EN 60947-2, GB 14048.2, CE, UKCA | IEC 60947-2, CE, UKCA | AS/NZS 60947-2, IEC 60947-2, CE, UKCA |
| Number of Poles | 1, 2, 3, 4 | 2 - 5 (parallel) | 1, 2 - 3 (parallel) | 1, 2 |
| Maximum Voltages | 240/415 Vac, 80 Vdc | 80 Vdc | 60 Vdc | 125 Vdc |
| Current Ratings | 0.1 - 60 Aac 0.1 - 100 Adc | 110 - 400 A | 125 A, 250 A, 300 A | 0.1 - 60 A |
| Ics | 5 kA (DC), 1.25 kA (AC), | 5 kA | 2.5 kA | 2.5 kA |
| Icu | 3 kA (AC) 5 kA (AC) 10 kA (DC) | 10 kA | 5 kA | 5 kA |

| Product Type | Circuit Breaker | Circuit Breaker | Circuit Breaker |
|------------------|--|------------------------------|------------------------------|
| Approvals | UL 489 | UL 489A, CSA C22.2 No. 5 -16 | UL 489A, 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 Aac 0.1 - 100 Adc | 125 A, 250 A, 300 A | 110 - 400 A |
| AIC | 10 kA (AC), 20 kA (DC) | 14 kA | 20 kA |

| Product Type | Circuit Breaker | Circuit Breaker | Switch | Switch |
|-----------------------|--|---|---------------------|-----------------------|
| Approvals | IEC/EN 60934, CE, GB 17701, UKCA | UL 1077, cURus | UL 508 | IEC/EN 60947-3, CE |
| Number of Poles | 1 - 4 | 1 - 6 | 1, 2 | 1, 2 |
| Maximum Voltages | 240/415 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 | | K6 |
|----------|-------|------------------------|
| Type | Poles | Price Ea. excl. VAT |
| DD-FRAME | 1 | POR |
| | 2 | |
| | 3 | |
| | 4 | |

| Handle Configuration | | |
|----------------------|----------|-----|
| 1 | Standard | - |
| 2 | Rocker | POR |

| Time Delay | | |
|------------|----------------------|-----|
| 1 | Standard | - |
| 2 | Inertia Wheel Curves | 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 |

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

| 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.
 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 UL 1077 and UL 508, and listed to UL 489 and UL 489A. Compliant with AS/NZS 60947-2.



(UL 489A)

(UL 489;
CSA C22.2 NO.5)

(UL 1077;
CSA C22.2 NO.235-04)

(CSA C22.2 No. 5-16)

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

(GB 14048.2;
GB 17701)

(IEC 60947-2;
IEC 60934)

(IEC 60947-2)

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 | 10 000 operations; 1 500 with current, 8 500 without current (IEC 60947-2 Clause 7.2.4.2)* 10 000 operations; 6 000 with current, 4 000 without current (UL 489 Clause 7.1.5)* 6 000 operations with current (UL 1077 Clause 22)* |
| Dielectric Strength | 1 000 - 2 000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)* 1 000 Vac plus twice the rated voltage for one minute (UL 489 Clause 7.1.9)* 1 000 Vac plus twice the rated voltage for one minute (UL 1077 Clause 23)* |
| Rated Impulse Withstand Voltage | 4 kV (IEC 60947-2 Clause 8.3.3.2)* |
| Weight | 90 g per pole (unpacked) |
| Altitude | Certification tests done at altitude ≈ 2 000 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 | UL 489 | DIN/EN 60947-2, GB/T 14048.2, 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 Aac 0.1 - 30 Adc | 0.1 - 30 Aac 0.1 - 30 Adc |
| 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 | | K6 |
|-----------|-------|------------------------|
| 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.

Standard discounts are not applicable.

Approvals

The T-Frame circuit breaker carries various approvals such as DIN/EN 60947-2, GB 14048.2, VDE, cURus and is CE certified. It is also recognised and listed to UL 489.



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 | 10 000 operations; 1 500 with current, 8 500 without current (IEC 60947-2 Clause 7.2.4.2)* |
| Dielectric Strength | 1 000 - 2 000 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 ≈ 2 000 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 | | | | | | | K6 |
|--|--------------|---------|----|------------------|----------------|---------------------|-----------------------------------|
| Type | Poles | Voltage | kA | MCB Width (mm) | Rating (A) | Price Ea. excl. VAT | Order No. ² |
| QDC-1(13)-DM-U2-5A-B0 (Grey Handle) | 1 | 80 Vdc | 10 | 13 (1 Module) | 5, 6 | POR | QDC18U2..B0 *QDD18U2..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 | POR | QDC28U2..B0 *QDD28U2..B0 |
| | | | | | 10, 15, 20 | | |
| | | | | | 25, 30, 35, 40 | | |
| | | | | | 45, 50 | | |
| QDC-2(13)-DM-U2-080A-B0-ZL (Grey Handle) ¹ | 2 (Parallel) | 80 Vdc | 10 | 26 (2 Module) | 80 | POR | QDC28U2...B0ZL *QDD28U2...B0ZL |
| | | | | | 100 | | |
| QDC-3(13)-DM-U2-125A-B0-ZL (Grey Handle) ¹ | 3 (Parallel) | 80 Vdc | 10 | 39 (3 Module) | 125 | POR | QDC38U2...B0ZL *QDD38U2...B0ZL |
| | | | | | 150 | | |
| QDC-4(13)-DM-U2-200A-B0-ZL (Grey Handle) ¹ | 4 (Parallel) | 80 Vdc | 10 | 52 (4 Module) | 200 | POR | QDC48U2200B0ZL *QDD48U2200B0ZL |

| QDC Range: 125 Vdc Circuit Breakers, 10 kA, Curve U2, Dual Mount and DIN Rail Mount | | | | | | | K6 |
|---|--------------|---------|----|------------------|----------------|---------------------|-----------------------------------|
| Type | Poles | Voltage | kA | MCB Width (mm) | Rating (A) | Price Ea. excl. VAT | Order No. ² |
| QDC-1(13)-DM-U2-5A-B1 (Grey Handle) | 1 | 125 Vdc | 10 | 13 (1 Module) | 5 | POR | QDC18U2..B1 *QDD18U2..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 | POR | QDC28U2..B1 *QDD28U2..B1 |
| | | | | | 10, 15, 20 | | |
| | | | | | 25, 30, 35, 40 | | |
| | | | | | 45, 50 | | |
| QDC-2(13)-DM-U2-080A-B1-ZL (Grey Handle) ¹ | 2 (Parallel) | 125 Vdc | 10 | 26 (2 Module) | 80 | POR | QDC28U2...B1ZL *QDD28U2...B1ZL |
| | | | | | 100 | | |

| QDC Range: 250 Vdc Circuit Breakers, 10 kA, Curve U2, Dual Mount and DIN Rail Mount | | | | | | | K6 |
|---|------------|---------|----|------------------|----------------|---------------------|-------------------------------|
| Type | Poles | Voltage | kA | MCB Width (mm) | Rating (A) | Price Ea. excl. VAT | Order No. |
| QDC-2(13)-DM-U2-5A-B3-T (Grey Handle) | 2 (Series) | 250 Vdc | 10 | 26 (2 Module) | 5 | POR | QDC28U2..B3T *QDD28U2..B3T |
| | | | | | 10, 15, 20 | | |
| | | | | | 25, 30, 35, 40 | | |
| | | | | | 45, 50 | | |

| Accessories | | | | | | | |
|-------------|---------------------------------|--|--|--|--|-----|--|
| 1 | Auxiliary Switch | | | | | POR | |
| 2 | Trip Alarm Switch | | | | | | |
| 3 | 1 Auxiliary Switch + Trip Alarm | | | | | | |

Notes:
 1. Do not remove factory-fitted bridge pieces
 2. QDC - Dual mount, 57 mm escutcheon, QDD - DIN rail mount, 45 mm escutcheon - to order DIN version, replace QDC with QDD in Order no
 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.
 Standard discounts are not applicable.
 * DIN rail option.
 *QDD / DIN rail mount only has the auxiliary switch module available as an accessory

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 | 10 000 operations; 1 500 electrical at rated current, 8 500 without current (IEC 60947-2 Clause 7.2.4.2)* 6 000 electrical operations (UL 489 Clause 7.1.9)* |
| Dielectric Strength | 1 000 - 2 000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)* 1 000 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 ≈ 2 000 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 | | | | | | | K6 |
|--|-------|---------|----|-------------------|------------------------|---------------------|----------------------|
| Type | Poles | Voltage | kA | MCB Width (mm) | Rating (A) | Price Ea. excl. VAT | Order No. |
| QL-1(13)-DM-C1-5A (White Handle) | 1 | 240 Vac | 6 | 13 (1 Module) | 0.5, 1, 2, 3, 4, 5 | POR | QL181.. *QLD181.. |
| | | | | | 6, 7, 8, 9, 10, 12, 15 | | |
| | | | | | 16, 20, 25 | | |
| QL-2(13)-DM-C1-5A (White Handle) | 2 | 415 Vac | 6 | 26 (2 Modules) | 0.5, 1, 2, 3, 4, 5 | | QL281.. *QLD281.. |
| | | | | | 6, 7, 8, 9, 10, 12, 15 | | |
| | | | | | 16, 20, 25 | | |
| QL-3(13)-DM-C1-5A (White Handle) | 3 | 415 Vac | 6 | 39 (3 Modules) | 0.5, 1, 2, 3, 4, 5 | | QL381.. *QLD381.. |
| | | | | | 6, 7, 8, 9, 10, 12, 15 | | |
| | | | | | 16, 20, 25 | | |

Accessories

| | | |
|---|------------------|-----|
| 1 | Auxiliary switch | POR |
|---|------------------|-----|

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.
 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 | 10 000 operations; 1 500 with current, 8 500 without current (IEC 60947-2 Clause 7.2.4.2)* Minimum of 1 000 operations with current (UL 489A Clause 12)* |
| Dielectric Strength | 1 000 - 2 000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)* 1 000 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 ≈ 2 000 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 (2 pole + 2 pole parallel) 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 | GB 14048-2, DIN/EN 60947-2, CE, UKCA | | | |
| Number of Poles | 1 | 2 | 2 pole bridged | 4 pole (2 pole + 2 pole parallel) 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 (2 pole + 2 pole parallel) 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 | | | | | | | K6 |
|--|--------------|---------|----|------------------|------------|---------------------|---------------|
| 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) ¹ | 2 (Parallel) | 80 Vdc | 10 | 52 (2 Module) | 200 | | QT29U2200B0ZL |
| QT-2(26)-DM-U2-250A-B0-ZL (White Handle) ¹ | 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.

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 | 10 000 operations; 1 500 with current, 8 500 without current (IEC 60947-2 Clause 7.2.4.2)* Minimum of 1 000 operations with current (UL 489A Clause 12)* |
| Dielectric Strength | 1 000 - 2 000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)* 1 000 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 | | | | | | | 2.5 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 | | | | | | | K6 |
|---|--------------|---------|----|------------------|--------------------|---------------------|-----------------------------------|
| 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 | | |
| QY-2(13)-DM-U2-080A-B0-ZL (White Handle) ¹ | 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) ¹ | 3 (Parallel) | 80 Vdc | 10 | 39 (3 Module) | 125 | POR | QY38U2...B0ZL *QYD38U2...B0ZL |
| | | | | | 150 | | |
| QY-4(13)-DM-U2-200A-B0-ZL (Grey Handle) ¹ | 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 | | | | | | | K6 |
|--|--------------|---------|----|------------------|--------------------|---------------------|----------------------------------|
| 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 | | |
| QY-2(13)-DM-U2-080A-B1-ZL (White Handle) ¹ | 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) ¹ | 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 | | | | | | | K6 |
|--|------------|---------|----|------------------|----------------|---------------------|------------------------------|
| Type | Poles | Voltage | kA | MCB Width (mm) | Rating (A) | Price Ea. excl. VAT | Order No. |
| QY-2(13)-DM-U2-5A-B3-T (White Handle) | 2 (Series) | 250 Vdc | 10 | 26 (2 Module) | 5 | POR | QY28U2..B3T *QYD28U2..B3T |
| | | | | | 10, 15, 20 | | |
| | | | | | 25, 30, 35, 40 | | |
| | | | | | 45, 50 | | |

| Accessories | | | | | | |
|-------------|---------------------------------|--|--|--|--|-----|
| 1 | Auxiliary Switch | | | | | POR |
| 2 | Trip Alarm Switch | | | | | |
| 3 | 1 Auxiliary Switch + Trip Alarm | | | | | |

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.
Standard discounts are not applicable.
* DIN rail option.
1. Do not remove factory-fitted bridge pieces.

Approvals



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 | 10 000 operations; 1 500 with current, 8 500 without current (IEC 60947-2 Clause 7.2.4.2)* 6 000 operations with current (UL 1077 Clause 22)* |
| Dielectric Strength | 1 000 - 2 000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)* 1 000 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 ≈ 2 000 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 | | | | | | | K6 |
|--|-------|---------|----|-------------------|------------------------|---------------------|--------------------|
| 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 | POR | 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 | | 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 | | 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 | QZ212.. QZ213.. | |
| | | | | | 25, 30, 35, 40, 45, 50 | | |
| QZ-N-4(13)-DM-C2-5A (White/Green Handle) | 3 + N | 415 Vac | 3 | 52 (4 Modules) | 5, 6, 10, 15, 16, 20 | QZ412.. QZ413.. | |
| | | | | | 25, 30, 35, 40, 45, 50 | | |

| QZ Range: 240/415 Vac Circuit Breakers, 3 kA, Curve 1, Dual Mount and DIN Rail Mount | | | | | | | K6 |
|--|-------|---------|----|-------------------|------------------------|---------------------|-----------|
| 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 | POR | 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 | | 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 | | 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 | | QZ211.. |
| | | | | | 25, 30, 35, 40, 45, 50 | | |
| QZ-N-4(13)-DM-C1-5A (Orange/Green Handle) | 3 + N | 415 Vac | 3 | 52 (4 Modules) | 5, 6, 10, 15, 16, 20 | | QZ411.. |
| | | | | | 25, 30, 35, 40, 45, 50 | | |

| Accessories | | |
|-------------|------------------|-----|
| 1 | Auxiliary switch | POR |

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.
 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 | I, S, M, L |
| Endurance | 10 000 operations; 1 500 with current, 8 500 without current (IEC 60947-2 Clause 7.2.4.2)* Minimum of 1 000 operations with current (UL 489A Clause 12)* |
| Dielectric Strength | 1 000 - 2 000 Vac for one minute (IEC 60947-2 Clause 8.3.3.3)* 1 000 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 ≈ 2 000 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, GB 14048.2, 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 M, Dual Mount 57 mm Escutcheon **K6**

| 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 M, DIN Rail Mount 45 mm Escutcheon **K6**

| 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: 400 Vdc DC Circuit Breakers, 6 kA, Curve M, Dual Mount 57 mm Escutcheon **K6**

| Type | Poles | Rating (A) | Price Ea. excl. VAT | BOM Number |
|-------------------|--------------|------------|------------------------|-------------|
| YAK-4(13) 400 Vdc | 2+2 (Series) | 1 A - 32 A | POR | YAK4M0__BT4 |

YA-Frame: 400 Vdc DC Circuit Breakers, 6 kA, Curve M, DIN Rail Mount 45 mm Escutcheon* **K6**

| Type | Poles | Rating (A) | Price Ea. excl. VAT | BOM Number |
|-------------------|--------------|------------|------------------------|-------------|
| YAD-4(13) 400 Vdc | 2+2 (Series) | 1 A - 32 A | POR | YAD4M0__BT4 |

YA-Frame: 600 Vdc DC Circuit Breakers, 6 kA, Curve M, Dual Mount 57 mm Escutcheon **K6**

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

YA-Frame: 600 Vdc DC Circuit Breakers, 6 kA, Curve M, DIN Rail Mount 45 mm Escutcheon* **K6**

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

| Accessories | | | | |
|--------------------|------------------|--|--|-----|
| 1 | Auxiliary switch | | | POR |

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.
 Refer to data sheet for product wiring diagram.
 Standard discounts are not applicable.
 * DIN rail option.
 Do not remove factory-fitted bridge pieces.

Approvals

