

## YB-Frame - Miniature Circuit Breakers







2 Pole DIN mount

#### **Product Category**

UNPOLARISED PRODUCT
 150 Vdc (1P & 2P), 300 Vdc (2P in series)
 300 Vdc 4 (2P in series + 2P in series) and
 600 Vdc (4P in series)
 (Reverse feedable)

Verify approvals

#### **Features**

- High energy DC circuit breaker
- Ultra compact 13 mm wide module
- · Hydraulic-magnetic technology
- Can be switched on immediately after tripping
- YBD DIN mount, 45 mm front escutcheon (Grey)
- YBM DIN mount, 57 mm front escutcheon (Black)
- YBK Dual (Din & Mini) mount, 57 mm front escutcheon (Black)
- ON and OFF indication
- · Suitable for electrical isolation
- 100% rating capability, independent of ambient temperature
- RoHS compliant
- · Box type main terminals

#### **Applications**

- · Solar equipment
- · DC circuit protection
- · Telecom / datacom equipment
- UPS equipment
- Alternative energy equipment
- · Battery protection

# **Auxiliary Switch and Trip Alarm Features**

- · Auxiliary switch
- AC and DC voltages
- IEC 60947-5-1 (6 A 250 Vac, 0.5 A 110 Vdc)
- GB 14048.5 approved
- Factory fitted
- Attached to right hand side of circuit breaker
- Compact 6.5 mm width

CUL 489B)
(CSA C22.2 No. 305)







(EC 60047.2)





Hydraulic-Magnetic Circuit Breakers 100% rated, unaffected by ambient temperature



### **YB-Frame - Miniature Circuit Breakers**

### **Technical Data: Approvals**

Product Type	Circuit Breaker YB					
Approvals	IEC 60947-2, GB14048.2, CE, UKCA, AS/NZS 60947-2					
Number of Poles	1 Pole, 2 Pole	2P (Series)	4P (Series)	4 (2 Pole in series + 2 Pole in series)		
Operating Voltages & Interrupting Capacity	150 Vdc @ 6 kA	300 Vdc @ 6 kA	600 Vdc @ 6 kA	300 Vdc @ 6 kA		
Minimum Current Rating	0.5 A	0.5 A	0.5 A	0.5 A		
Maximum Current Rating	50 A	50 A	50 A	50 A		

Product Type	Circuit Breaker YB			
Approvals	UL 489B			
Number of Poles	1 Pole	2 Pole		
Operating Voltages & Interrupting Capacity	150 Vdc @ 10 kA	150 Vdc @ 10 kA		
Minimum Current Rating	0.5 A	0.5 A		
Maximum Current Rating	50 A	50 A		

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

Product Type	Circuit Breaker YB				
Ambient Operating Temperature	-40°C to +85°C				
<b>Mounting Options</b>	Dual (DIN and Mini rail)				
Time Delay Curves	Various				
Endurance	10000 operations; 1500 with current, 8500 without current (IEC 60947-2 Clause 7.2.4.2)* 1000 operations with current, 1000 operations without current (UL 489B Clause 10)*				
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 489B Clause 15)*				
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.				

<sup>\*</sup> Refer to the standard for details

Breaker YB	Wire Size (IEC)	Wire Gauge (UL)	Torque (IEC)	Torque (UL)	Comments
Main Terminals	2.5 mm² to 16 mm²	18 – 6 AWG	3.5 N.m	30 lbf.in	Pz #2 Combi head