

SM15 65 mm Module Width CBI Mini Rail, Black, 57 mm Front Escutcheon, 10 to 100 A

The SM15 is a single phase heavy duty industrial Earth Leakage Circuit Breaker available as a surface mount and CBI Mini Rail mount device. This Earth Leakage Circuit Breaker is available with Earth Leakage sensitivity of 30, 50, 100, 250, 375, 500 and 1 000 mA.



**SM15A
CBI Mini Rail &
Surface Mount**

Features

- Hydraulic-Magnetic technology
- 100% rating capability, independent of ambient temperature
- AS/NZS 3111 and AS/NZS 3190 Approved
- Approval number N15215
- Immune to pulsating DC load current
- Operating Voltage 110 and 240 V AC
- Ratings 10 to 100 A
- Earth Leakage sensitivity 30 mA, 50 mA, 100 mA, 250 mA, 375 mA, 500 mA, 1000 mA
- Single pole plus switched neutral Earth Leakage protection
- Precision tripping characteristics
- Reset immediately after overload
- Suitable to use for electrical isolation

Applications

- Mining, heavy industrial and commercial applications requiring high sensitivity Earth Leakage protection from electrical shock and fire hazards
- Telecom / datacom equipment
- Lighting control
- UPS equipment
- Alternative energy equipment
- Mobile power generation equipment
- Railway signalling equipment

Approvals

AS/NZS 3111 AS/NZS 3190

Technical Data

Product Type	SM15
Approvals	AS/NZS 3111; AS/NZS 3190; VC 8035
Number of Poles	I+N
Standard Ampere Ratings	10 to 100 A
Sensitivity	30 mA, 50 mA, 100 mA, 250 mA, 375 mA, 500 mA, 1 000 mA
Equipment Type Rated Voltage	110V and 240V
Rated Interrupting	6 kA : 5 kA to VC 8035
Time Delay Curves	2

Product Type	SM15
Operating Temperature Range	-40 °C to +85 °C
Mounting Options	CBI Mini Rail, surface mount
Time Delay Curves	2
Endurance	10 000 electrical operations at rated current and voltage (IEC 60934) 6 000 electrical operations (UL 1077, UL 489, IEC 947-2)
Insulation Resistance (Rated Impulse Withstand Voltage)	2 500 V (IEC 60934)
Dielectric strength	1 480V, 60 Hz for 1 minute on the AC240V product
Weight	500 g per Pole (unpacked)
Humidity	35 to 85% relative
Altitude	Tested at 2 000 m above sea level
Shock	100 G to MIL-STD-202F Method 213 Condition I
Vibration	10 G to MIL-STD-202F Method 204D
Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28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.

Earth Leakage	Wire Size mm ² (IEC)	Torque (IEC)	Comments
I+N	0.75 - 35 mm ²	2.5 Nm	Pozidriv #2 Combi head

Ordering Information

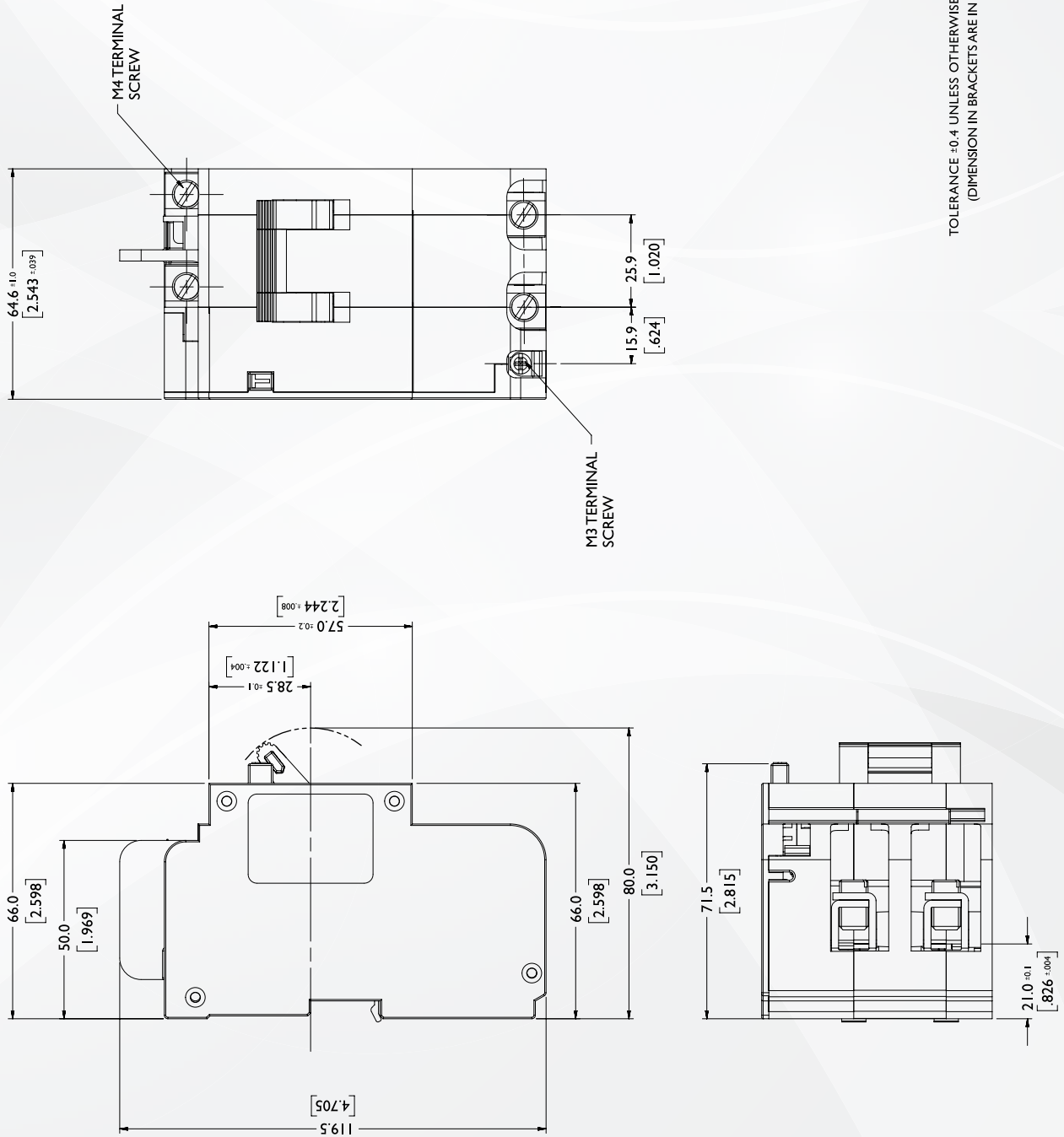
Example Code: SM-15-A--2-100A-100mA-240V---

Group	1	2	3	4	5	6	7	8	9	10
Requirement	S Frame	Type M	1 pole + N	Overload	No Auxiliary	Medium delay curve 2	Current Rating 100 A	Sensitivity 100 mA	Voltage 240V AC	No special termination
Long Code	S	M	15	A	-	2	100A	100mA	240V	-

Group 1: Frame Type	Code	Description	Comments
	S	65 mm wide Earth Leakage	AS/NZS 3111 ; AS/NZS 3190
Group 2: Product Type	Code	Description	Comments
	N	110 V AC 6 kA	
	M	240V AC 6 kA	
Group 3: No of Poles	Code	Description	Comments
	15	Single pole plus switched neutral (1+N)	SM15
Group 4: E-L Type	Code	Description	Comments
	A	Overload (Auto Tripping)	White and green handle
Group 5: Auxiliary / Additional Pole	Code	Description	Comments
	-	Not applicable	Use this code if no Auxiliary used
Group 6: Time Delays	Code	Description	Comments
	2	Medium time delay	
Group 7: Current Ratings	Code / Description		Comments
	10, 15, 16, 20, 30, 40, 45, 50, 60, 80, 100 A		SM15 Ratings available vary depending on certification * Other ratings are available as special orders. Check availability.
Group 8: Sensitivity	Code	Description	Comments
	K	30 mA	Standard
	L	50 mA	Standard
	M	100 mA	Standard
	N	250 mA	Standard
	P	375 mA	Standard
	O	500 mA	Standard
	R	1 000 mA	Standard
Group 9: Voltage	Code	Description	Comments
	110V	110V AC	
	240V	240V AC	
Group 10: Special Termination	Code	Description	Comments
	-	No special termination	

For options not listed, please contact CBI for assistance

SM15, Surface Mount, Black, 57 mm Front Escutcheon Dimensional Drawings



TOLERANCE ±0.4 UNLESS OTHERWISE SPECIFIED
(DIMENSION IN BRACKETS ARE IN INCH)