

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, 100, 250, 500 and 1000 mA.



SM15A Mini Rail & Surface Mount

Features

- Hydraulic-magnetic technology
- 100% rating capability, independent of ambient temperature
- VC 8035 compliant
- AS/NZS 3190 compliant
- · Immune to pulsating DC load current
- Operating Voltage 110 and 240 Vac
- Ratings 10 to 100 A
- Earth Leakage sensitivity 30 mA, 100 mA, 250 mA, 500 mA, 1000 mA, Type A
- Single pole plus switched neutral earth leakage protection
- Precision tripping characteristics
- Can be switched on immediately after tripping
- · 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

Approvals VC 8035 AS/NZS 3190

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



Technical Data

Product Type	SM15
Approvals	VC 8035
Number of Poles	1+N
Standard Ampere Ratings	10 to 100 A
Sensitivity	30 mA
Rated Voltage	110 Vac and 240 Vac
Ultimate S/C Breaking Capacity (Icu)	5 kA
Time Delay Curves	2

Product Type	SM15
Approvals	AS/NZS 3190
Number of Poles	1+N
Standard Ampere Ratings	10 to 100 A
Sensitivity	100 mA, 250 mA, 500 mA, 1000 mA
Rated Voltage	240 Vac
Ultimate S/C Breaking Capacity (Icu)	6 kA
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	1500 electrical operations (AS/NZS 3190)			
Dielectric Strength	1480 V (single pole) / 1830 V (multi pole), 50 Hz for one minute after testing			
Weight	500 g per pole (unpacked)			
Humidity	35 to 85% relative			
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Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28			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.			

Earth Leakage	Wire Size (IEC)	Torque (IEC)	Comments
1+N	0.75 mm² 25 mm²	2 E Nm	Pozidriv #2
	0.75 mm² - 35 mm²	2.5 Nm	Combi head



Long Code

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

Group	1	2	3	4	5	6	7	8	9	10
Requirement	S Frame	Туре М	1 pole + N	Overload	No auxiliary	Medium delay curve 2	Current rat- ing 100 A	Sensitivity 100 mA	Voltage 240 Vac	No special termination
Long Code	S	M	15	Α	-	2	100A	100mA	240V	-

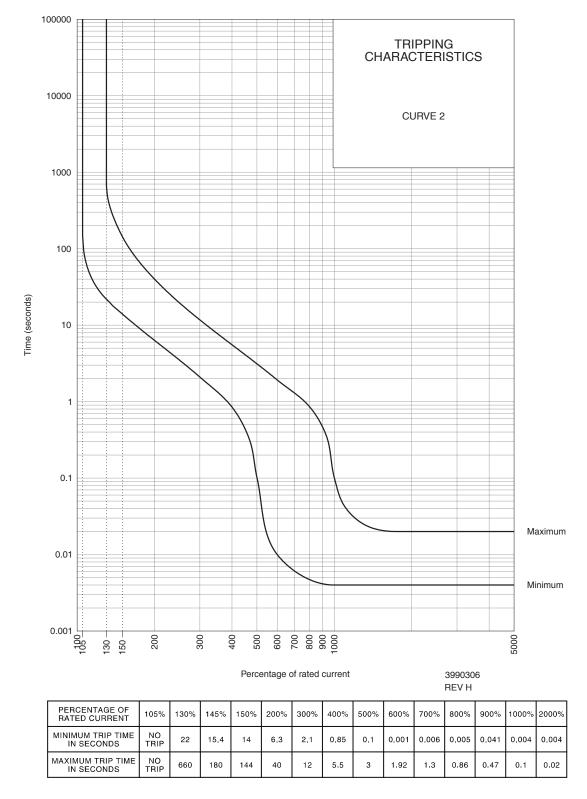
Ordering Information

Group 1:	Code	Description	Comments
Frame Type	S	65 mm wide earth leakage	
Group 2:	Code	Description	Comments
Product Type	N	110 Vac, 5 kA	
	М	240 Vac, 6 kA	
Group 3:	Code	Description	Comments
No of Poles	15	Single pole plus switched neutral (1+N)	SM15
Group 4:	Code	Description	Comments
E-L Type	Α	Overload	White and green handle
Group 5:	Code	Description	Comments
Auxiliary / Additional Pole	-	Not applicable	
Group 6:	Code	Description	
Time Delays	2	Medium time delay	
Group 7:		Code / Description	Comments
Current Ratings		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:	Code	Description	Comments
Sensitivity	K	30 mA	Standard
	M	100 mA	Standard
	N	250 mA	Standard
	0	500 mA	Standard
	R	1000 mA	Standard
Group 9:	Code	Description	Comments
Voltage	110 V	110 Vac	
	240 V	240 Vac	
Group 10:	Code	Description	Comments
Special Termination	-	No special termination	

For options not listed, please contact CBI



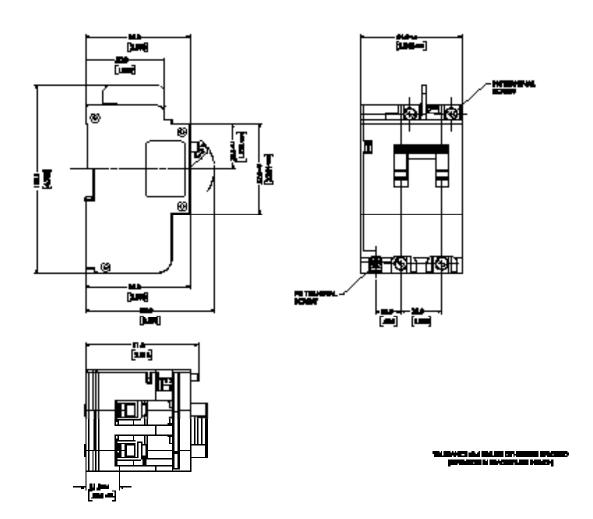
Time Delay Curve



^{*} The published time delay curves are generated at 30°C ambient temperature with the Circuit Breaker mounted in the up-right position. The "must hold", "must trip" and "instantaneous trip" current values are not affected by temperature, although delay time for the other operating current values may have to be adjusted using the temperature compensation curve which is available on request.



Outline Dimensions: Mini rail & Surface mount



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