

The SF15 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 mA.



SF15A Mini Rail & Surface Mount



SF15C 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
- Ratings 10 to 100 A
- Earth leakage sensitivity 30 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



Technical Data

Product Type	SF15A	SF15CE			
Approvals	VC 8035				
Number of Poles	1+N	1+N			
Standard Ampere Ratings	10 to 100 A	100 A			
Sensitivity	30 mA	30 mA			
Rated Voltage	240 Vac	240 Vac			
Ultimate S/C Breaking Capacity (Icu)	5 kA	-			
Rated S/C Withstand Capacity (Icw)	-	5 kA / 40 mS			

Product Type	SF15A	SF15CE			
Approvals	AS/NZS 3190				
Number of Poles	1+N	1+N			
Standard Ampere Ratings	10 to 100 A	100 A			
Sensitivity	30 mA	30 mA			
Rated Voltage	240 Vac	240 Vac			
Ultimate S/C Breaking Capacity (Icu)	6 kA	-			
Rated S/C Withstand Capacity (Icw)	-	6 kA			

Product Type	SF15		
Operating Temperature Range	-40 °C to +85 °C		
Mounting Options	CBI mini rail, surface mount		
Time Delay Curves	2 (A version only)		
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 (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Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28		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 ex			

Earth Leakage	Wire Size mm² (IEC)	Torque (IEC)	Comments
Main Terminala	0.75 25 mm²	2.5 Nm	Pozidriv #2
Main Terminals	0.75 - 35 mm²	Z.5 INIII	Combi head



Long Code

Example Code: S-F-15-AE--2-100A-30mA-240V

Group	1	2	3	4	5	6	7	8	9	10
Requirement	S Frame	Type F	1 pole + N	Overload	No auxiliary	Medium delay curve 2	Current rat- ing 100 A	Sensitivity 30 mA	Voltage 240 Vac	No special termination
Long Code	S	F	15	AE	-	2	100A	30mA	240V	-

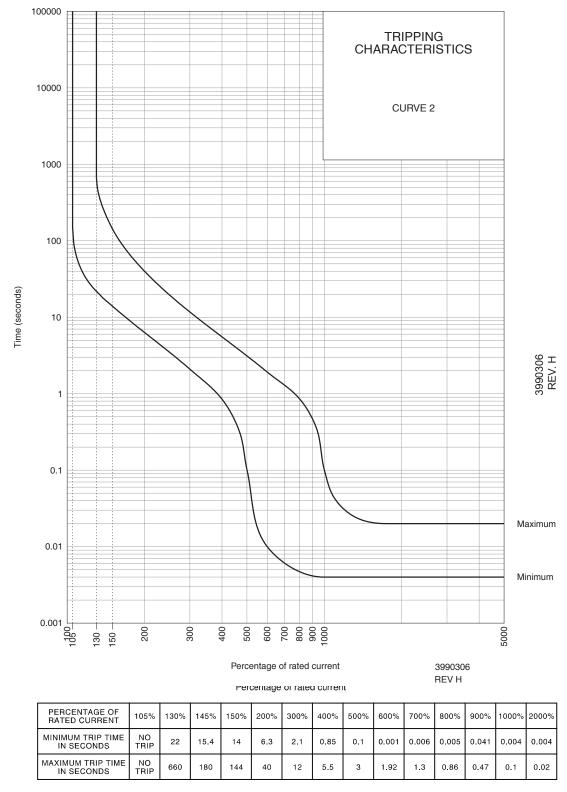
Ordering Information

Group 1:	Code	Description	Comments		
Frame Type	S	65 mm wide earth leakage	Comments		
Group 2:	_		0		
Product Type	Code	Description	Comments		
	F	240 Vac, 6 kA			
Group 3: No of Poles	Code	Description	Comments		
	15	Single pole plus switched neutral (1+N)	SF15		
Group 4:	Code	Description	Comments		
E-L Type	AE	Overload	White and green handle		
	CE	Switch disconnector	Green handle		
Group 5:	Code	Description	Comments		
Auxiliary / Additional Pole	-	Not applicable			
Additional Fole	Α	Auxiliary switch			
Group 6:	Code	Description			
Time Delays	2	Medium time delay			
Group 7: Current Ratings		Code / Description	Comments		
		10, 15, 16, 20, 30, 40, 50, 60, 80, 100 A	SF15A Ratings available vary depending on certification * Other ratings are available as special orders. Check availability.		
		100 A	SF15C		
Group 8:	Code	Description	Comments		
Sensitivity	30mA	30 mA	Standard		
Group 9:	Code	Description	Comments		
Voltage	240 V	240 Vac			
Group 10:	Code	Description	Comments		
Special Termination	-	No special termination			

For options not listed, please contact CBI



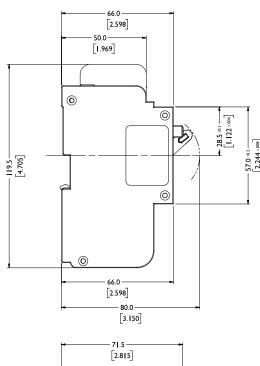
Time Delay Curves

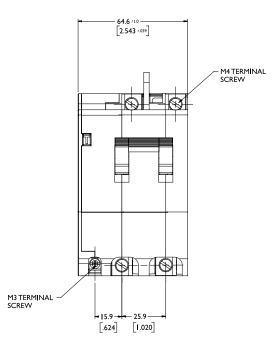


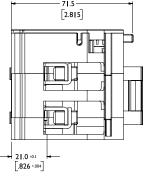
^{*} The published time delay curves are generated at 30°C ambient temperature with the circuit breaker mounted in the up-right position. The "must hold", "must trip" and "instantaneous trip" current values are not affected by temperature, although delay time for the other operating current values may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



Outline Dimensions: Dual Mount







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

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