

SF15 - Series Earth Leakages

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 3111 and AS/NZS 3190 compliant
- Immune to pulsating DC load current
- Ratings 10 to 100 A
- Earth leakage sensitivity 30 mA, 50 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 and infrastructure

Approvals

VC 8035



AS/NZS 3111



AS/NZS 3190

SF15 - Series Earth Leakages

Technical Data

Product Type	SF15A	SF15C
Approvals	VC 8035	
Number of Poles	1+N	1+N
Standard Ampere Ratings	10 to 100 A	60, 100 A
Sensitivity	30 mA	30 mA
Rated Voltage	240V	240V
Rated Interrupting/ Withstand Capacity	5 kA -	- 5 kA
Time Delay Curves	2	-

Product Type	SF15A	SF15C
Approvals	AS/NZS 3111, AS/NZS 3190	
Number of Poles	1+N	1+N
Standard Ampere Ratings	10 to 100 A	60, 100 A
Sensitivity	30 mA, 50 mA, 100 mA, 250 mA, 375 mA, 500 mA, 1000 mA	30 mA
Rated Voltage	110 / 240V	240V
Rated Interrupting / Withstand Capacity	6 kA -	- 6 kA
Time Delay Curves	2	-

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 3111, AS/NZS 3190)
Dielectric Strength	1480V (single pole) / 1830V (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 600068-2-27)
Vibration	2 G (IEC 600068-2-27) (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Flammability	I3 - Ignition does not persist at 850 °C after glow wire is withdrawn with an oxygen index of ≥ 28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 mm ² (IEC)	Torque (IEC)	Comments
1+N	0.75 - 35 mm ²	2.5 Nm	Pozidriv #2 Combi head

SF15 - Series Earth Leakages

Ordering Information

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

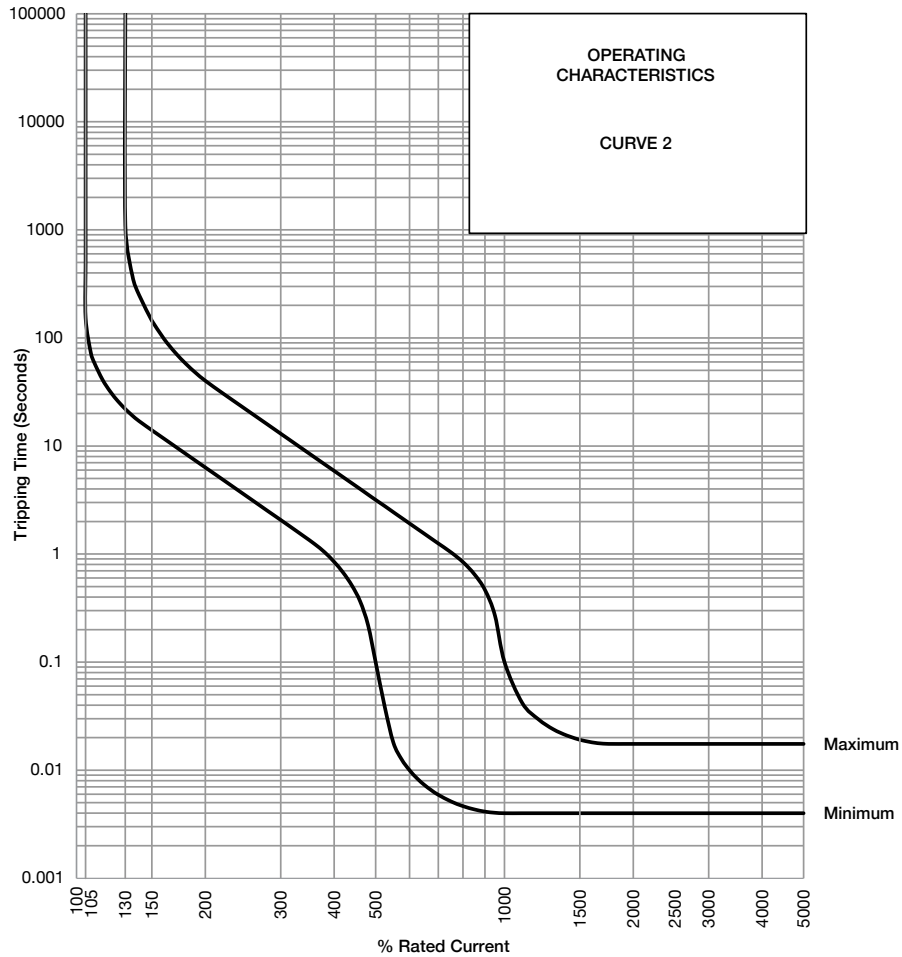
Group	1	2	3	4	5	6	7	8	9	10
Requirement	S Frame	Type F	1 pole + N	Overload	No auxiliary	Medium delay curve 2	Current rating 100 A	Sensitivity 30 mA	Voltage 240V AC	No special termination
Long Code	S	F	15	AE	-	2	100A	30mA	240V	-

Group 1: Frame Type	Code	Description	Comments
	S	65 mm wide earth leakage	
Group 2: Product Type	Code	Description	Comments
	F	240 V AC, 6 kA	
Group 3: No of Poles	Code	Description	Comments
	15	Single pole plus switched neutral (1+N)	SF15
Group 4: E-L Type	Code	Description	Comments
	AE	Overload (auto tripping)	White and green handle
	CE	Switch disconnecter	Green handle
Group 5: Auxiliary / Additional Pole	Code	Description	Comments
	-	Not applicable	Use this code if no auxiliary used
	A	Auxiliary Switch	
Group 6: Time Delays	Code	Description	Comments
	2	Medium time delay	
Group 7: Current Ratings	Code / Description		Comments
	10, 15, 16, 20, 30, 40, 50, 60, 80, 100 A		SF15 Ratings available vary depending on certification * Other ratings are available as special orders. Check availability.
	60, 100 A		SF15
Group 8: Sensitivity	Code	Description	Comments
	30mA	30 mA	Standard
	50mA	50 mA	Standard
	100mA	100 mA	Standard
	250mA	250 mA	Standard
	375mA	375 mA	Standard
	500mA	500 mA	Standard
1000mA	1000 mA	Standard	
Group 9: Voltage	Code	Description	Comments
	240 V	240 V AC	
Group 10: Special Termination	Code	Description	Comments
	-	No special termination	

For options not listed, please contact CBI

SF15 - Series Earth Leakages

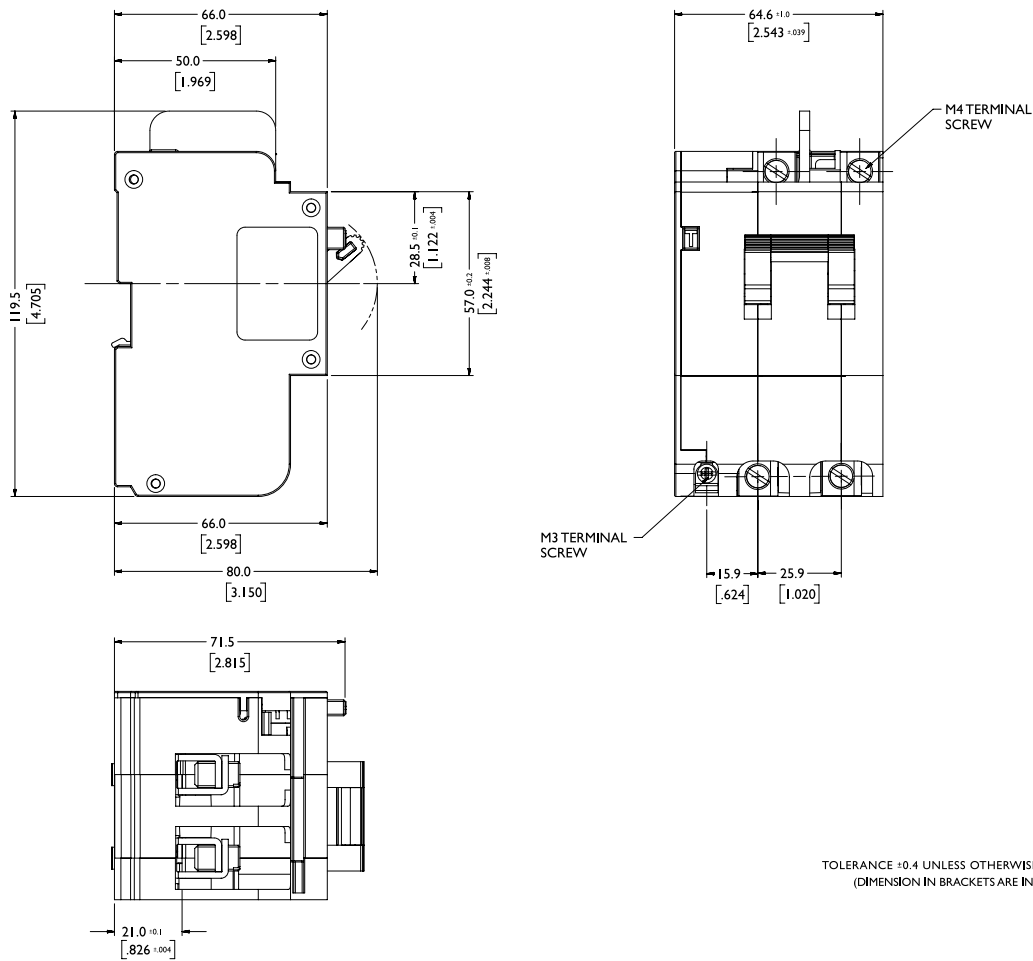
Time Delay Curves



* 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.

SF15 - Series Earth Leakages

Outline Dimensions: Dual Mount



Please review our Customer Terms and Conditions on www.cbi-lowvoltage.co.za

© 2016.09 CBI (Pty) Ltd. All Rights Reserved.

All rights reserved. Unless otherwise indicated, all materials on these pages are copyrighted by CBI (Pty) Ltd. No part of these pages, either text or image may be used for any purpose other than personal use. Therefore, reproduction, modification, storage in a retrieval system or retransmission, in any form or by any means, electronic, mechanical or otherwise, for reasons other than personal use, is strictly prohibited without prior written permission. CBI (Pty) Ltd reserves the right to alter any details of this document without notice and while every effort is made to ensure the accuracy of the content, no warranty is given as to the accuracy of this document and no responsibility will be accepted for error or misinterpretation and any resulting loss.

AUSTRALIA

CBI-electric: Australia
27 Wedgewood Rd, Hallam
Victoria 3803 Australia
Tel: +61 3 8752 9300
Fax: +61 3 9796 5407
Email: sales@cbi-electric.com.au
Website: www.cbi-electric.com.au

SOUTH AFRICA

CBI-electric: low voltage
Tripswitch Drive Elandsfontein
Gauteng South Africa
Tel: +27 11 928 2000
Fax: + 27 11 392 2354
Email: cbi@cbi-electric.com
internationalsales@cbi-electric.com
Website: www.cbi-lowvoltage.com

USA

CBI-electric: North America
35 E. Uwchlan Ave Suite 328
Exton PA 19341 USA
Tel: +1 610 524 9949
Fax: +1 610 524 9945
E-mail: info@cbibreakers.com
Website: www.cbibreakers.com