

(12) PATENT APPLICATION PUBLICATION

(21) Application No.742/MUM/2013 A

(19) INDIA

(22) Date of filing of Application :13/03/2013

(43) Publication Date : 23/01/2015

(54) Title of the invention : SYSTEM FOR SHORT CIRCUIT I2T ON PROTECTION FOR ELECTRICAL CIRCUIT BREAKERS AND METHOD THEREFOR

(51) International classification	:H02M5/451, G05F1/573	(71) Name of Applicant : 1)LARSEN & TOUBRO LIMITED Address of Applicant :LARSEN & TOUBRO LIMITED L&T HOUSE, BALLARD ESTATE, P. O. BOX: 278, MUMBAI 400 001, MAHARASHTRA, INDIA
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
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(87) International Publication No	: NA	2)APEKSHA B LANDE
(61) Patent of Addition to Application Number	:NA	3)DHRUVI TYAGI
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a system for short circuit protection for electrical circuit breakers. The system comprises a microcontroller, a signal conditioning system capable of providing DC shifted output signal to the microcontroller, a trip circuitry for enabling a tripping mechanism of the electrical circuit breaker on receiving input from the microcontroller and a power supply source for powering the signal conditioning circuitry, the microcontroller and the trip circuitry. Wherein, the microcontroller processes the signal form the signal conditioning system, detects whether short circuit fault is present and gives a command to the trip circuitry to start the trip mechanism.

No. of Pages : 11 No. of Claims : 3