

ELECTRONIC CIRCUIT BREAKER WITH REDUNDANT CAN INTERFACE

Overview

Cyient offers an STM 32 based programmable Solid State Power Controller (115V AC, 28V AC) with inbuilt protections which can replace the conventional electro-mechanical circuit breakers and relays for AC network voltages & high current applications.

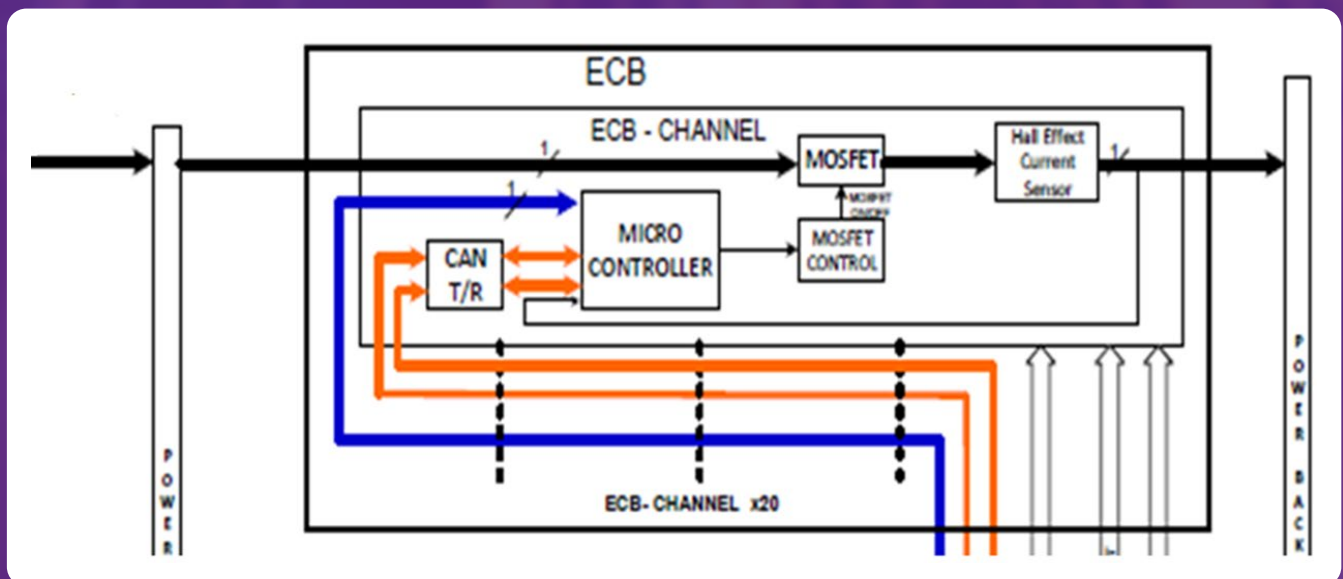
Key Features

- Nominal current 7.5A
- Programmable I2T curve : Standard and Slow trip
- Programmable base current: % of Nominal current
- Protection : I2T, Overload and short circuit
- Redundant CAN communication based control
- Consists of 20 channels
- Channels can be paralleled to increase the current up to 60A
- Status monitoring
 - Open/Close/Tripped, Voltage, Current, Faults
- Control
 - Close, Open, Reset

Technical Specifications

- Input Voltage: 97VAC to 134VAC
18VAC to 32VAC
- Frequency: 370 Hz to 430Hz
- No.of Channels: 20
- Channel Nominal Current: 7.5AAC
7.6 < Current < 75AAC
- I2t profile: 800sec < trip time < 80msec (Standard curve)
- Short Circuit Protection: >78AAC (Hardware based)
- Operating Temperature: -40°C ~ +85°C
- Physical Dimensions: (L X B X H)
231mm X 194mm X 32mm
- Environmental Conditions for Airborne Equipment: RTCA/DO-160G
- Design Assurance Guidance for Airborne Electronic Hardware: RTCA/DO-254
- Software Considerations in Airborne Systems and Equipment Certification: RTCA/DO-178C

Block Diagram



Benefits

Overall "Low cost of ownership" to the customer due to

- Higher Power density
- Lower power loss
- Late point configuration for base rating and type of I2t curve

Our USP

- Common design for wide range of AC application

Cyient (Estd: 1991, NSE: CYIENT) is a global engineering and technology solutions company. As a design, build, operate & maintain partner for leading organizations worldwide, we take solution ownership across the value chain and leverage the power of digital technologies and advanced analytics, along with domain knowledge and technical expertise, to solve complex business problems. With more than 16,000 employees in 20 countries, our industry focus includes aerospace and defense, medical, telecommunications, rail transportation, semiconductor, industrial, and energy.