

Miniature Circuit Breaker Type PLSI - 10kA

# Protect your loved ones from electrical hazards with **Eaton MCBs**



**EATON**

*Powering Business Worldwide*

# About **EAT•N**

Eaton's mission is to improve the quality of life and the environment through the use of power management technologies and services. Eaton provides sustainable solutions that help its customers effectively manage electrical and mechanical power – more safely, more efficiently, and more reliably. Eaton's 2022 revenues were \$20.8 billion, and the company sells products to customers in more than 175 countries. Eaton has approximately 85,000 employees. Eaton firstly established a presence in the Asia Pacific region during the 1970s. Since then, the company's presence has grown significantly with a fast-growing network of sales and marketing offices, manufacturing plants, service centers and research facilities in the region.

Today, we have nearly 17,000 employees, 6 R&D centers and manufacture in 34 manufacturing facilities in countries and regions including China, India, Japan, South Korea, Singapore, Indonesia, Thailand, Philippines and Australia for all of Eaton's distinct business.

Eaton Power Quality Private Limited, India is a 100% subsidiary and a part of electrical sector of Eaton Corporation. We are catering to every industrial segment with versatile solutions which includes Switchgear: LV & MV Solutions, Fusegear: LV & MV solutions, UPSs & software solutions.

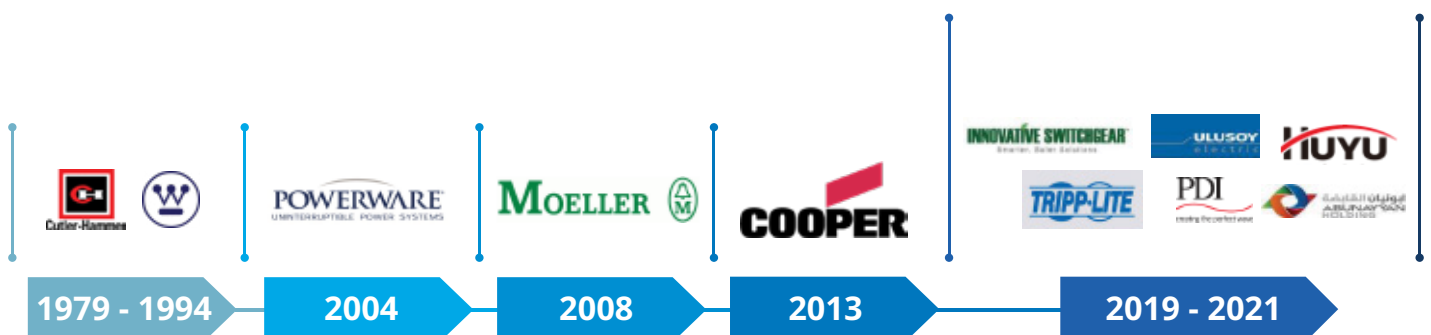
**85,000+**  
employees

**\$20.8**  
BILLION IN  
SALES 2022

Operating in  
**175**  
countries

**100+**  
years of  
experience

**Built our capabilities and expanded through  
key acquisitions and partnerships...**





# Welcome to the ultimate circuit protection solution

At Eaton, we are committed to provide our customers with the latest and most innovative solutions for their electrical needs. Our newest offering PLSI MCB is a testament to this commitment. With cutting-edge technology and superior performance, the PLSI provides the ultimate circuit protection for any application.



PLSI range of Miniature Circuit Breakers offers **Reliability, Safety and Affordability** bringing complete peace of mind for protecting your loved ones with complete ease of use.

It complies to local and global standards and comes with ISI marking, CE marking as per IS/IEC 60898-1 and EN/IEC 60898-1.

- It's superior aesthetic among its peers makes it stand out from the crowd.
- PLSI Range is most robust and affordable 10kA MCB in the market.
- It is specifically designed keeping "YOU" in mind, i.e. Not only **"Made in India"** but **"Made for India"** too.

## PLSI makes the premises safe due to unmatched features like:

- > 10kA breaking capacity
- > Quick break mechanism for faster fault clearance
- > True contact position indicator
- > Suitability for isolation
- > Energy limiting Class 3
- > Anti-weld silver alloy contact material supported by 13 Deion plate Arc-chutes for effective arc-quenching
- > Use of fire retardant engineering plastics

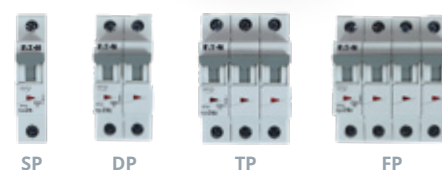
# Miniature Circuit Breaker Type PLSI - 10kA

New benchmark in Quality for highest SAFETY and RELIABILITY.

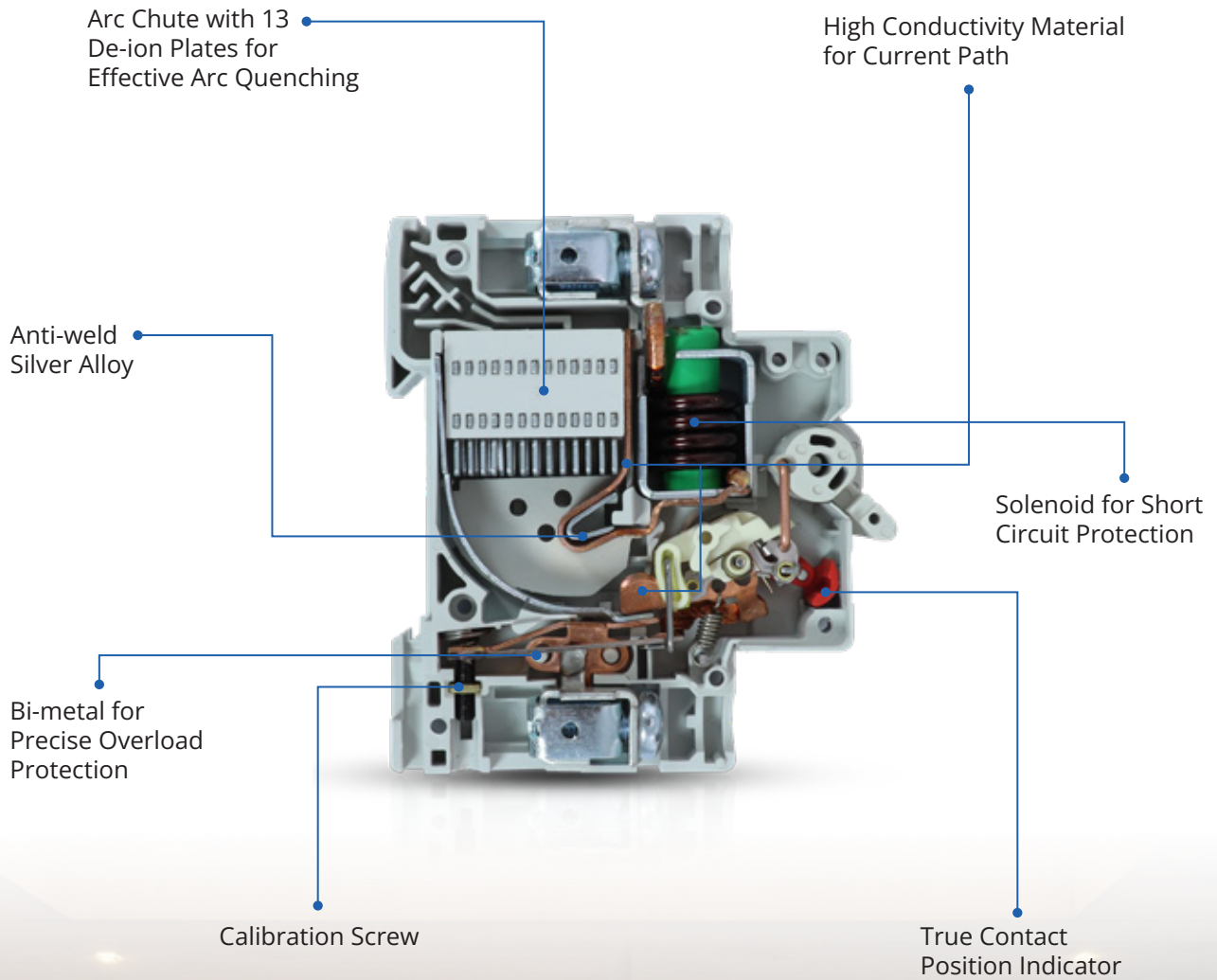
| Range  |  |                    |                          |     |
|--|--|--------------------|--------------------------|-----|
| Model  | PLSI   |                    |                          |     |
| Applicable Standard                          | IEC 60898-1  |                    |                          |     |
| Pole Combinations                            | SP   | DP                 | TP                       | FP  |
| Available Trip Curves                        | B Curve & C Curve  |                    |                          |     |
| Ratings Range                                | 6 - 63 A   |                    |                          |     |
| Technical Specifications                     |  |                    |                          |     |
| Main Characteristics                         |  |                    |                          |     |
| Rated Current $I_n$                          | 6, 10, 16, 20, 25, 32, 40, 63A   |                    |                          |     |
| Rated Operational Voltage $U_e$              | 240/415V AC  |                    |                          |     |
| Rated Insulation Voltage $U_i$               | 660V   |                    |                          |     |
| Rated Impulse Withstands Voltage $U_{imp}$   | 4kV  |                    |                          |     |
| Rated Frequency                              | 50Hz   |                    |                          |     |
| Standard Compliance                          | IS/IEC60898-1, EN/IEC 60898-1  |                    |                          |     |
| As per IS/IEC 60898-1, EN/IEC 60898-1        |  |                    |                          |     |
| Energy Limiting Class                        | Class 3  |                    |                          |     |
| Rated Short Circuit Capacity ( $I_{sc}$ ) kA | 10   |                    |                          |     |
| Mechanical Durability                        | 10000  |                    |                          |     |
| Electrical Durability                        | 4000   |                    |                          |     |
| Environment                                  |  |                    |                          |     |
| Ambient Temperature (°C)                     | -5 to 50°C   |                    |                          |     |
| Relative Humidity                            | 95% RH, No Condensation  |                    |                          |     |
| Pollution Degree                             | II   |                    |                          |     |
| Material Group                               | IIIa   |                    |                          |     |
| Protection Characteristics                   |  |                    |                          |     |
| Protections                                  | Against overload and short circuit - Thermal / Magnetic                  |                    |                          |     |
| Reference Calibration Temperature            | 30°C   |                    |                          |     |
| Thermal Tripping Limits                      | 1.13 - 1.45 x $I_n$  |                    |                          |     |
| Magnetic Tripping Limits                     | B Curve - (3-5) x $I_n$  |                    | C Curve - (5-10) x $I_n$ |     |
| Termination Details                          |  |                    |                          |     |
| Screw Size                                   | M5, Combihead Screw  |                    |                          |     |
| Tightening Torque                            | 2 Nm   |                    |                          |     |
| Type of Terminal                             | Screw type cage Terminal, Biconnect on both sides, Lug type and Pin type |                    |                          |     |
| Terminal Capacity                            | Flexible   | 16 mm <sup>2</sup> |                          |     |
|  | Rigid  | 25 mm <sup>2</sup> |                          |     |
| Safety Features                              |  |                    |                          |     |
| Protection Degree                            | IP20 - Finger Proofing   |                    |                          |     |
| Trip Free                                    | Trip Free Feature  |                    |                          |     |
| Suitable for Isolation                       | Yes  |                    |                          |     |
| Form   |  |                    |                          |     |
| Width  | 17.5mm per pole (+0.3 / -0.1)  |                    |                          |     |
| Weights in gms                               | SP   | DP                 | TP                       | FP  |
|  | 98   | 196                | 294                      | 392 |
| Mounting                                     | Mounting on 35mm DIN Channel, 2 Position DIN Clamp for easy installation |                    |                          |     |

## Salient Features:

- ISI and CE marking
- Energy limiting class - 3
- True contact position indicator - RED / GREEN
- 2 position DIN rail clamp - easy installation
- Breaking capacity - 10kA - best-in-class

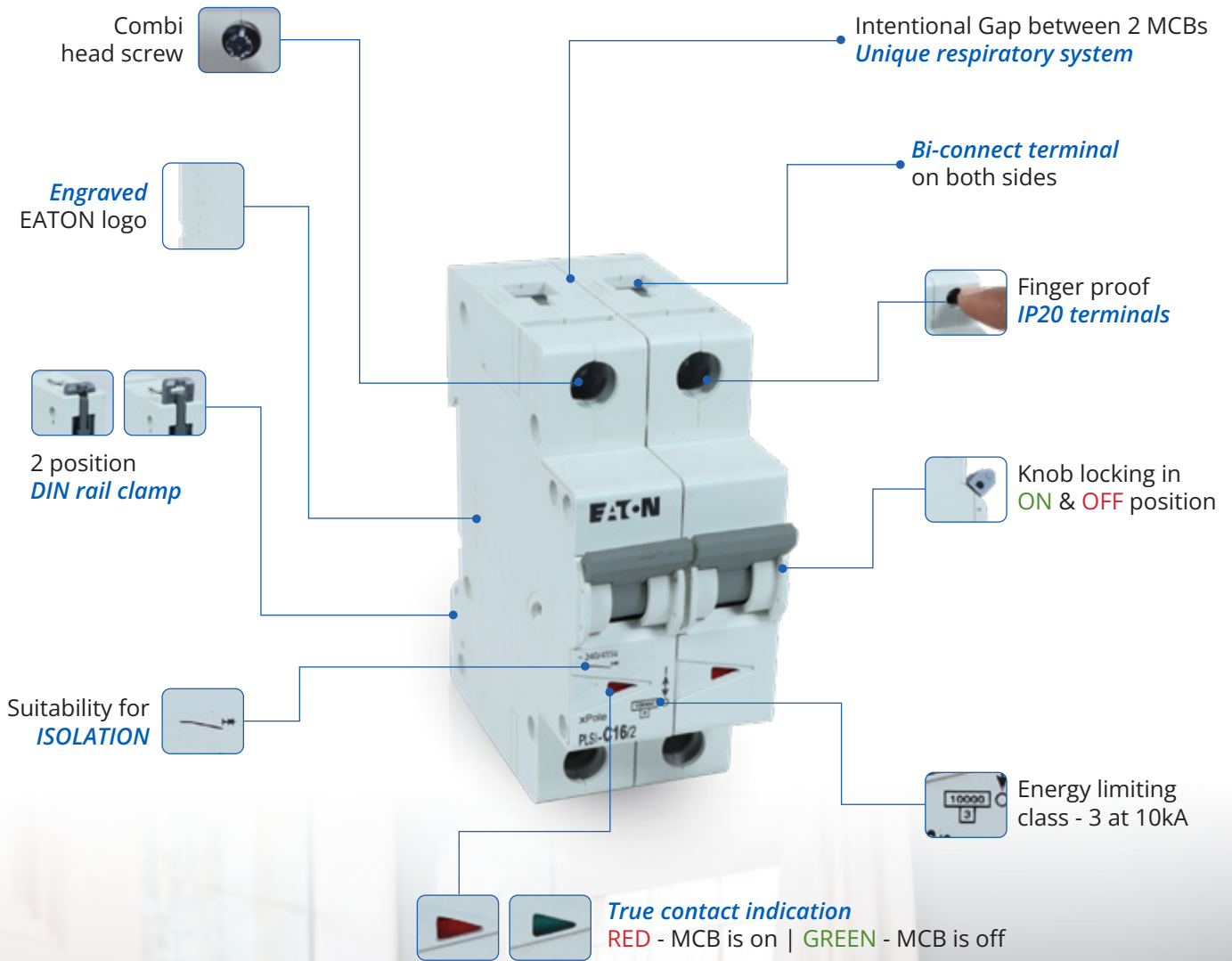


# Internal Construction Overview







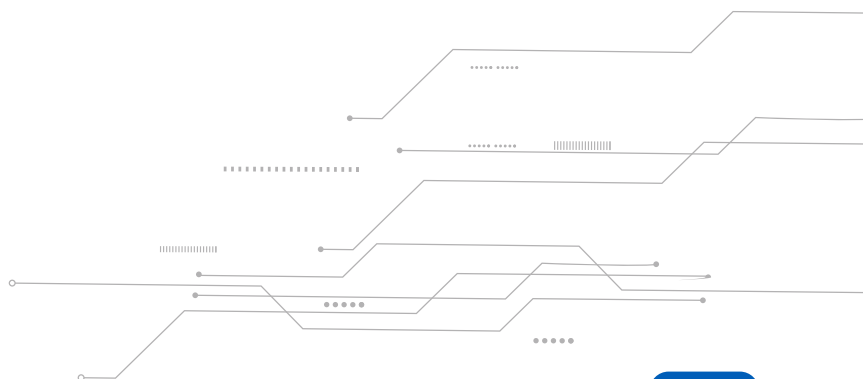


# Front Face Overview



# Part Codes

| Picture   | Poles | Rating | B Curve     |                | C Curve     |                |
|---|-------|--------|-------------|----------------|-------------|----------------|
|   |       |        | Part Number | Article Number | Part Number | Article Number |
|    | 1P    | 6      | EIN-810101  | PLSI-B6-GI     | EIN-810140  | PLSI-C6-GI     |
|   |       | 10     | EIN-810102  | PLSI-B10-GI    | EIN-810141  | PLSI-C10-GI    |
|   |       | 16     | EIN-810103  | PLSI-B16-GI    | EIN-810142  | PLSI-C16-GI    |
|   |       | 20     | EIN-810104  | PLSI-B20-GI    | EIN-810143  | PLSI-C20-GI    |
|   |       | 25     | EIN-810105  | PLSI-B25-GI    | EIN-810144  | PLSI-C25-GI    |
|   |       | 32     | EIN-810106  | PLSI-B32-GI    | EIN-810145  | PLSI-C32-GI    |
|   |       | 40     | EIN-810107  | PLSI-B40-GI    | EIN-810146  | PLSI-C40-GI    |
|   | 2P    | 6      | EIN-810109  | PLSI-B6/2-GI   | EIN-810148  | PLSI-C6/2-GI   |
|   |       | 10     | EIN-810110  | PLSI-B10/2-GI  | EIN-810149  | PLSI-C10/2-GI  |
|   |       | 16     | EIN-810111  | PLSI-B16/2-GI  | EIN-810150  | PLSI-C16/2-GI  |
|   |       | 20     | EIN-810112  | PLSI-B20/2-GI  | EIN-810151  | PLSI-C20/2-GI  |
|   |       | 25     | EIN-810113  | PLSI-B25/2-GI  | EIN-810152  | PLSI-C25/2-GI  |
|   |       | 32     | EIN-810114  | PLSI-B32/2-GI  | EIN-810153  | PLSI-C32/2-GI  |
|   |       | 40     | EIN-810115  | PLSI-B40/2-GI  | EIN-810154  | PLSI-C40/2-GI  |
|  | 3P    | 6      | EIN-810117  | PLSI-B6/3-GI   | EIN-810156  | PLSI-C6/3-GI   |
|   |       | 10     | EIN-810118  | PLSI-B10/3-GI  | EIN-810157  | PLSI-C10/3-GI  |
|   |       | 16     | EIN-810119  | PLSI-B16/3-GI  | EIN-810158  | PLSI-C16/3-GI  |
|   |       | 20     | EIN-810120  | PLSI-B20/3-GI  | EIN-810159  | PLSI-C20/3-GI  |
|   |       | 25     | EIN-810121  | PLSI-B25/3-GI  | EIN-810160  | PLSI-C25/3-GI  |
|   |       | 32     | EIN-810122  | PLSI-B32/3-GI  | EIN-810161  | PLSI-C32/3-GI  |
|   |       | 40     | EIN-810123  | PLSI-B40/3-GI  | EIN-810162  | PLSI-C40/3-GI  |
|  | 4P    | 6      | EIN-810125  | PLSI-B6/4-GI   | EIN-810164  | PLSI-C6/4-GI   |
|   |       | 10     | EIN-810126  | PLSI-B10/4-GI  | EIN-810165  | PLSI-C10/4-GI  |
|   |       | 16     | EIN-810127  | PLSI-B16/4-GI  | EIN-810166  | PLSI-C16/4-GI  |
|   |       | 20     | EIN-810128  | PLSI-B20/4-GI  | EIN-810167  | PLSI-C20/4-GI  |
|   |       | 25     | EIN-810129  | PLSI-B25/4-GI  | EIN-810168  | PLSI-C25/4-GI  |
|   |       | 32     | EIN-810130  | PLSI-B32/4-GI  | EIN-810169  | PLSI-C32/4-GI  |
|   |       | 40     | EIN-810131  | PLSI-B40/4-GI  | EIN-810170  | PLSI-C40/4-GI  |
|   |       | 63     | EIN-810132  | PLSI-B63/4-GI  | EIN-810171  | PLSI-C63/4-GI  |







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