



Powering Business Worldwide



# Switchgear for Renewable Energy - Solar & Wind

Robust & Reliable Switching & Protection for Demanding Applications



**Fastest to Reach**  
1GWp Installation in India



**Only Switchgear** to have  
251 GWp Installations  
across the Globe

# Eaton Switchgear for Renewable Segment

## Solar Segment

### Rooftop Solar

Typically at 240V



**AC MCB - PLSI**  
As per IEC 60898-1  
Range : 6-63A,  
Poles : SP / DP / TP / FP  
Curve : C & D  
Br. Capacity :10kA



**DC MCB - PL\*** - 250V DC per Pole, C Curve,  
10kA as per IEC 60947-2  
**PLS6 DC**  
Range : 1 -50A, DP, 500V DC  
**PL10 DC**  
Range : 16-50A, FP, 1000V DC



**Surge Protection Devices**  
Type T1, T2 & T3 available according to IEC 61643-11  
Pole : 1, 1+1, 2, 3, 3+1 & 4  
Operation Voltage : 230VAC, 280VAC & 335VAC per Pole  
Earthing Systems type : TT, TN-C, TN-S & IT  
Nominal discharge current (8/20)  $\mu$ s : up to 25kA ( L-N ) & 100kA ( N-PE ).  
Impulse discharge current (10/350)  $\mu$ s : up to 25kA ( L-N ) & 100kA ( N-PE )

#### Key Features

- Energy Limiting Class-3
- Finger Proof IP20 Terminals
- True Contact Position Indication
- Bi-connect terminals on Both sides
- 3 Position DIN Clamp
- Suitable for ISOLATION
- High Durability
- Wide Operating temp. Range

#### Key Features

- Operating temperature : -40°C to +85°C
- Remote signaling contact available as additional feature.
- Combined Versions T1+T2 & T1+T2+T3 also available

## Solar Segment

### Commerical & Industrial Solar

Typically at 415V



**PSL ACBs**  
Range : 400-4000A, 3Pole / 4Pole  
Versions : EDO MDO EF MF  
Br. Capacity :  
55kA at 415V (Ics = Icu = Icw,1Sec)  
42kA at 690V (Ics = Icu = Icw,1Sec)

#### PSL ACB Key Features

Default supplied with Mic 2.0 Trip Unit /  
Release with LCD Display having Current  
Metering  
Communication Modbus RTU in Mic5.0

#### Key Features

- Key Features (Common Across Range)
- LSIG + Neutral Protection
- Current Metering with LCD Display
- Thermal Metering (OFF & Adjustable 10 Min to 3Hrs.)
- Trip & Alarm History – 8 Records each
- Common Fault Indication on Release
- Common Fault Trip Indication Contact
- Contact Wear Indication
- Individual Fault LED Indication
- Self Diagnostics
- In-built Fault Simulator – No need for external Test KIT
- Controller Voltage – 240V – No need to add DC Power Supply Separately – No Min. Current requirement to LIT Display



**BZMX - MCCBs (Ics = 100% Icu)**  
Range : 10A to 800A, 3Pole/4Pole  
(Option of Protected Neutral, Unprotected Neutral & Solid Neutral)  
Trip Units :  
Thermal Magnetic, Adjustable and Fixed  
Thermal Magnetic with In-built Earth Leakage Protection  
Electronic (Microprocessor based)  
Br. Capacity : 25, 50, 70 kA (Ics = 100% Icu)"

#### Key Features

- No de-rating up to 55°C
- Most compact 160A MCCB - 55 mm depth, 75 mm Width
- No derating up to 50°C – Even for TM version
- Versions :
  - Distribution Protection,
  - Motor Protection (High magnetic setting - 12In)
- SD (Switch Disconnecter)
- Mounting : Base Plate, Plug-in, Draw-out
- India Style Spreader
- High Durability
- Innovating electronic Trip Unit with facility to OFF all Protections"

## Utility Scale

Typically at 690V &amp; 800V

## Central Inverter Based

**IZM ACBs**

Range : 800 - 6300A, 3Pole / 4Pole  
 Versions : EDO MDO EF MF  
 Br. Capacity : 55, 66, 85, 100 kA at 690V  
 (Ics = Icu = Icw, 1Sec)

**IZM ACB Unique features**

- No Derating up to 70°C for up to 1600A
- No Derating up to 50°C for 2000 to 3200A
- Minimal Derating beyond 50°C and other ratings

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Range : 10A to 800A, 3Pole/4Pole  
 (Option of Protected Neutral, Unprotected Neutral & Solid Neutral)  
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- Mounting : Base Plate, Plug-in, Draw-out
- India Style Spreader
- High Durability
- Innovating electronic Trip Unit with facility to OFF all Protections

**IZM Key Features**

- Default supplied with 6.1 AG Trip Unit / Release with LCD Display having Current Metering
- Communication Modbus RTU in Trip Units AGC, EGC, PGC, Possibility to convert to Ethernet
- Communication with ECAM Module
- Suitable for AL Busbar Termination

**Unique Features (Common Across Range)**

- LSIG + Neutral Protection
- Current Metering with LCD Display
- Thermal Memory (OFF & Adjustable 10 Min to 3Hrs.)
- Trip & Alarm History - 8 Records each
- Common Fault Indication on Release
- Common Fault Trip Indication Contact
- Contact Wear Indication
- Individual Fault LED Indication
- Self Diagnostics
- In-built Fault Simulator – No need for external Test KIT
- Controller Voltage – 240V – No need to add DC Power Supply Separately – No Min. Current requirement to LIT Display

## String Inverter Based

**IZM HV ACBs**

Range : 2000 - 6300A, 3Pole  
 Versions : EDO MDO EF MF  
 Br. Capacity : 50, 66, 75 kA at 1140V  
 (Ics = Icu = Icw, 1Sec)

**IZM HV ACB Unique features**

- No Derating up to 70°C for up to 2500A
- No Derating upto 50°C for upto 5000A
- Minimal Derating beyond 50°C and other ratings

**BZMX - S08 MCCBs (With Special Indian Style Spreader & Terminal Covers) - (Ics = 100% Icu)**

Range : 10A to 630A, 3Pole  
 Trip Units : Thermal Magnetic, Electronic (Microprocessor based)  
 Br. Capacity : 36kA, 50kA (Ics = 100% Icu)

**Key Features**

- Suitable for AL Busbar Termination
- No de-rating up to 55°C
- India Style Spreader
- High Insulation Voltage - Must for Solar Application
- High Operating voltages upto 1140V - Must for Solar Application
- Suitable for high Altitude applications upto 5000 Meters
- High Electrical Durability
- Electronic Trip Unit with Facility to Switch OFF Ground Fault Protection

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- Communication Modbus RTU in Trip Units AGC, EGC, PGC, Possibility to convert to Ethernet
- Communication with ECAM Module
- Suitable for AL Busbar Termination

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- Trip & Alarm History - 8 Records each
- Common Fault Indication on Release
- Common Fault Trip Indication Contact
- Contact Wear Indication
- Individual Fault LED Indication
- Self Diagnostics
- In-built Fault Simulator – No need for external Test KIT
- Controller Voltage – 240V – No need to add DC Power Supply Separately – No Min. Current requirement to LIT Display

## Utility Scale

Typically at 1140V

## Wind Turbine Based

**IZM HV ACBs**

Range : 2000 - 6300A, 3Pole  
 Versions : EDO MDO EF MF  
 Br. Capacity : 50, 66, 75 kA at 1140V  
 (Ics = Icu = Icw, 1Sec)

**IZM HV ACB Unique features**

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- No Derating upto 50°C for upto 5000A
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# RVAC

Ring Main Unit



#### Product Range

Rated Voltage : 12kV  
Degree of Protection : IP-4X ( Indoor )  
P54 (Outdoor)  
Standards : IEC62271-1, IEC62271-100,  
IEC62271-102, IEC62271-103,  
IEC62271-200

#### Vacuum Circuit Breaker & Load Break Switch :-

Rated Current : 630A  
Rated Short Circuit with stand current : 21kA for 3sec  
Rated Short Circuit Making current : 52.5kA

#### Key Features & Benefits:

- Integrated motorization for remote control operation.
- Extensible and non extensible range with a wide choice of configurations.
- Any combination of load break switches, vacuum circuit breakers available.
- Vacuum circuit breaker protection with wide selection of relays for protection for transformers.
- Suitable for Indoor and outdoor (IP54) applications.
- Fully interlocked, anti-reflex mechanisms with padlocks.
- Option of live cable interlock to prevent manual operation of earth switch in cable live condition for enhanced operator safety.
- Can be Integrated with wide range of RTUs customizable with DI/DO/AIs for seamless SCADA connection, with optional automatic transfer scheme (ATS).

## About EATON

Eaton is an intelligent power management company dedicated to protecting the environment and improving the quality of life for people everywhere. We provide sustainable solutions that help our customers manage electrical and mechanical power—more safely, efficiently, and reliably. By capitalizing on the global growth trends of electrification and digitalization, we are accelerating the planet's transition to renewable energy, solving the world's most urgent power management challenges, and building a more sustainable society for today and generations to come.

Eaton was founded in 1911 and has continuously evolved to meet the changing needs of industries worldwide. In 2024, our revenues reached nearly \$25 billion, and we serve customers in more than 160 countries. Eaton has approximately 92,000 employees globally. The company first established a presence in the Asia Pacific region in the 1970s. Since then, our presence has grown significantly, with a fast-expanding 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 operate 34 manufacturing facilities across countries and regions including China, India, Japan, South Korea, Singapore, Indonesia, Thailand, the Philippines, and Australia for all of Eaton's distinct business segments.

Operating in  
**160+**  
countries

**92,000+**  
employees

**100+**  
years of  
experience

**\$25**  
BILLION IN  
SALES 2024

**18,000+**  
patents

Contact Eaton today to learn how the Switchgear for Renewable Energy can transform your power infrastructure

Visit [Eaton.com/in](https://www.eaton.com/in) for more information

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