Three Phase Distribution

Definition

Three Phase Distribution board – A three phase assembly containing switching or protective devices (e.g. circuit breakers and residual current operator devices) associated with one or more outgoing circuits fed from one or more incoming circuits, together with terminals for the neutral and circuit protective conductors. It may also include signalling and other control devices.

Key standards

BSEN 61439 – 3 Low Voltage Switchgear and Controlgear Assemblies

BSEN 60898 – 1 Electrical accessories - Circuit breakers for overcurrent protection for household and similar installations - Circuit-breakers for a.c. operation

BSEN 61009 – 1 Residual Current Circuit Breaker with Overcurrent Protection

BSEN 61008 – 1 Specification for residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs). General rules

BSEN 60947 - 2 Low-Voltage Switchgear and Controlgear. Circuit-breakers

Applications

Final circuit single phase or single phase and neutral low voltage distribution, typical loads serviced;

Motors, General Power, HVAC, Critical Power

Generally supplied by a panel board or switchboard, systems are designed to ensure supply continuity “discrimination” and enhanced performance “cascading”.

Typical infrastructure layout