

2 x 250A Molded Case Circuit Breakers

- Hydraulic- Magnetic technology
- 100% rating capacity; independent of ambient temperature
- Three Pole
- Rating 250A
- Trip button for mechanical confirmation of operation
- Precise tripping characteristics
- Reset immediately after overload
- Circuit breaker curve must be JSO
- Utilization must be Cat A
- Must conform to SABS 156 standards
- Must withstand 25ka at 415v

2. 5 Core x 50mm²) ABC (Aerial Bundled Conductor) 500m

Key Specifications

- Voltage Rating: 600/1000V.
- Conductor Material: Compacted hard-drawn aluminum (Al).
- Insulation: UV-resistant cross-linked polyethylene (XLPE) or Polyethylene (PE).
- Typical Configuration: 3 Phase Cores (50mm²) + 1 Neutral/Messenger Core (often 50mm² and a street light line 16mm²)
- Max Operating Temp: 90°C (XLPE).
- Maximum Conductor DC Resistance at 20°C: ~0.641Ω
- Approx. Outside Diameter: ~25 - 27 mm for 4-core.

- Approx. Weight: ~650 - 700 kg/km.
- Standards: SANS 1418, IEC 60502, NFC 33-209, BS 7870.

Construction Details

- Phase Conductors: 5 Cores of 50mm² compacted aluminum.
- Insulation Color: Black.
- Identification: Phase cores are identified by longitudinal ribs (Phase 1, 2, 3).
- Messenger (if applicable): Non-strain bearing neutral has 2 longitudinal ribs, while strain-bearing messengers have 1.

Mechanical and Electrical Characteristics

- Maximum Breaking Load: 8.9 kN (for 3x50+35mm² configuration).
- Current Rating (in air): Approximately 129A to 140A, depending on installation conditions.
- Voltage Drop: Single-phase is roughly 1.3 - 1.5 mV/A/m.