

POWER SWITCH PANEL PA18/9**General Description**

The PA18/9 comprises a 415-volt triple-pole air circuit-breaker like that in the PA18/8, plus associated protection and metering equipment. The circuit-breaker is used to control an incoming three-phase four-wire supply; see parent equipment EP13/2.

Protection of Incoming Feeders

The breaker is fitted with direct-acting over-current coils and a shunt trip coil. The shunt trip coil is energised by an external 30-volt tripping unit.

Protection systems used differ according to the particular installation and therefore no precise details can be given here. The basic requirement is

to protect against overcurrent and earth faults. The principles involved in these types of protection systems are dealt with in detail in Part 3 of Instruction T.14.

Metering

Associated with the 415-volt breaker are a volt-meter, an ammeter, associated selector switches, a kilowatt meter and a power-factor meter. Current-operated equipment is supplied from 1500/5-ampere current-transformers which are mounted on the busbar side of the circuit-breaker. Potential leads to the metering equipment are taken via 15-ampere back-up fuses on the busbars and meter fuses near the associated meter.

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