

## Single Point Distribution Assemblies

SP units are factory built assemblies that can incorporate: 110V sockets; 230V and 110V sockets; or 230V, 110V and 24V sockets. To simplify installation and reduce time on site they are supplied fully wired and fitted with transformers, switchgear, sockets, etc. and only require a single incoming mains connection. Versions are available with overall ratings of IP20, IP44 or IP55.

### Enclosure

Manufactured from sheet steel with a phosphate pre-treatment followed by polyester powder coating, shade Dark Admiralty Grey. Available in IP20, IP44 or IP55 versions. Enclosures are wall mounting with removable wall brackets that can be repositioned on site for floor mounting applications.

### Incoming Terminals

The IP20 and IP55 versions incorporate terminals enabling 2 x 6mm<sup>2</sup> conductors to be looped-in and out.

### Incoming Switchgear

Fitted with a 32A DP switch disconnecter, which does not control the loop-out feed (the overcurrent protection at source should not exceed 32A). A switch is not fitted to assemblies with 110V sockets only.

### Distribution 230V

Twin 13A sockets (IP20 metal clad or IP56 moulded) are protected by a 16A 30 mA Type A RCBO. Single 16A IP44 sockets are protected by an SP 16A MCB / DP 30mA Type A RCCB combination.

1 no. SP Type "D" MCB feeding a 1kVA or 2kVA transformer with a 230V tapped primary winding and a 110V Reduced Low Voltage output. Also available in IP20 and IP55 versions with the addition of a 24V Separated Extra Low Voltage tertiary winding (250VA @ 24V).

BS7671:2018 (IET Wiring Regulations) allows a supply voltage tolerance of -6% / +10%. Any variation in the voltage connected to the primary winding will vary the secondary voltage in proportion and it will also alter the inrush current characteristics. To address the effect of supply voltage variation, the primary windings have tappings at 220, 230, 240 and 250 volts.

### Distribution 110V and 24V

SP Assemblies are fitted with 110V and 24V sockets to BS EN 60309-2, as detailed in the chart below. 16A 2P+E 110V sockets are protected by a suitably rated DP Type "C" MCB (governed by the transformer rating). 16A 2P 24V sockets are protected by a 10A DP Type "C" MCB

Assemblies with an overall rating of IP20 or IP44 are fitted with IP44 110V / 24V socket outlets and SP assemblies with an overall rating of IP55 incorporate IP67 110 / 24V socket outlets (all to BS EN 60309-2).



Item S260173 - IP55 with 230V, 110V and 24V Sockets

Part No.	IP Rating	RCD	Trans Rating	Sockets (twin 13A IP20 are metal clad)
S260174	IP20	n/a	2 kVA	2 x 16A 110V
S260170	IP20	Type A	2 kVA	Twin 13A 230V, 2 x 16A 110V
S260171	IP20	Type A	2 kVA	Twin 13A 230V, 2 x 16A 110V, 1 x 16A 24V
S210336	IP44	Type A	1 kVA	1 x 16A 230V, 1 x 16A 110V
S210337	IP44	Type A	2 kVA	1 x 16A 230V, 2 x 16A 110V
S260175	IP55	n/a	2 kVA	2 x 16A 110V
S260172	IP55	Type A	2 kVA	2 x 13A 230V, 2 x 16A 110V
S260173	IP55	Type A	2 kVA	2 x 13A 230V, 2 x 16A 110V, 1 x 16A 24V