

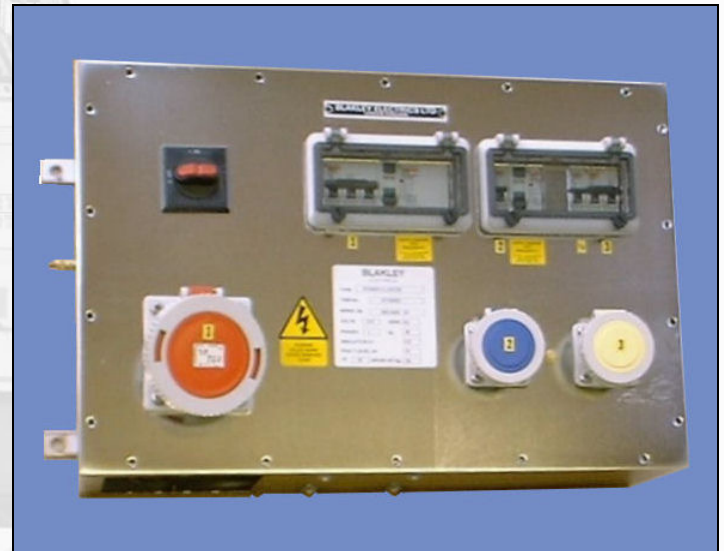
Power Cluster “Single Point” Socket Outlet Assemblies

A range of standard and custom built distribution assemblies designed for installation in locations such as Paper Mills, Water and Sewage Treatment Works, Food Processing, Pharmaceutical production, Car Plants, Power Stations, etc., or wherever there is a need for multiple voltage supplies.

Power Clusters are factory built assemblies which can incorporate a combination of 400V, 230V, 110V, 42V and 24V socket-outlets (plus the associated switchgear and transformers) all combined within a composite assembly, fed from a single supply. The installation of a composite assembly fed from a single supply usually results in a substantial reduction of on-site labour and materials.

Standard Power Clusters

Power Clusters can be custom made (see over page) but a range of standard assemblies is available, which will suit many applications.



Power Cluster as S170220 but with enclosure made from stainless steel and fitted with IP67 socket outlets

Standard Power Clusters			
Part No.	Enclosure	Mains Isolator	Distribution
S170220	Steel to IP54, Dark Admiralty Grey, #	63A TP&N	1 no. 32A 5P 400V socket protected by a 32A TP MCB + 30mA 4P RCD. 1 no. 16A 3P 230V socket protected by a 16A 30mA MCB / RCD. 1 no. 10A SP MCB feeding an integral 2 kVA, 230:110V transformer, which feeds 1 no. 16A 3P 110V socket via a 16A DP MCB.
S170225	Steel to IP54, Dark Admiralty Grey #	100A TP&N	1 no. 63A 5P 400V socket protected by a 63A TP MCB + 30mA 4P RCD. 1 no. 32A 3P 230V socket protected by a 32A 30mA MCB / RCD. 1 no. 16A 3P 230V socket protected by a 16A 30mA MCB / RCD. 1 no. 16A SP MCB feeding an integral 3.5 kVA, 230:110V transformer, which feeds 1 no. 32A 3P 110V socket and 1 no. 16A 3P 110V, protected by 32A and 16A DP MCBs respectively.

The overall rating of the assembly is IP44 due to the use of splash proof sockets.

Please turn over for details of the custom built range of Power Clusters.

THE POWER PROFESSIONALS

HIGHER POWER TRANS POWER SAFE POWER TEM POWER PRO POWER GREEN POWER

THE COMPANY RESERVES THE RIGHT TO CHANGE PRODUCTS WITHOUT PRIOR NOTICE.



Cert. No. 902091

PPDS3 - 11/10

Custom Built Power Clusters

We are able to build Power Clusters exactly to order. To enable us to provide a quotation, as a minimum we need to know your requirements on the following specification points:

Enclosure

Confirm wall mounting, specify ingress protection (from IP44 to IP66) and whether fabricated from sheet steel, stainless steel or all-insulated. Mild steel enclosures have a high quality paint finish, with zinc phosphate pre-treatment and top coat shade to reasonable choice. Other pre-treatment processes are available, please see Technical Data Sheet TDS1 for options. Stainless steel enclosures are available with a natural, polished or painted finish. Please specify any other special requirements, such as specific dimensional requirements, a projecting canopy, angle-iron stand, etc.

Incoming Cable Terminations

Specify whether a single incoming cable or facility to terminate a loop-in and loop-out arrangement. Advise CSA of cables and cable entry points (top, side or base).

Incoming Switchgear

Please specify Isolator, Fused Switch, MCB or MCCB (with or without RCD) rated from 32A to 125A. Higher current ratings can be incorporated if required.

Socket Outlets

Specify number, current rating and voltage. Socket outlets are usually to BS EN 60309-2 (formerly BS 4343 / CEE17) and are available in current ratings of 16A, 32A, 63A and 125A in voltages of 24V, 42V, 110V, 230V and 400V. Mechanically and electrically interlocked sockets can be provided to prevent insertion or withdrawal of plugs on load. Sockets to other standards can also be incorporated e.g. to BS EN 60309-1 or Military Standards.

Protection

Power Clusters can incorporate MCB, RCD and Fuse protection for individual sockets or groups of sockets. Monitored Earth Protection is also available for mains voltage sockets. Please specify requirements.

Transformer

Power Clusters incorporate double-wound, single-phase transformers with primary windings of 230V or 400V and secondary windings of 110V CTE (RLV supply to BS 7671) and tertiary windings of 24V or 42V (SELV / PELV to BS 7671). Please specify required voltages and ratings.



Power Cluster, IP55 rated, 400V, 230V & 110V sockets



Power Cluster, IP44 rated, 400V, 230V, 110V & 24V sockets

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