

Mains Distribution Assemblies with Socket Outlets

To meet the growing demand on UK construction sites, industrial plants and fabrication facilities for plug-in mains voltage equipment, such as site transformers, welding sets, portacabins, etc., we have introduced a standard range of Mains Distribution Assemblies (MDAs) fitted with hard wired (glanded) incomers and outgoing socket outlets, single and three-phase.

Standard MDAs are available with incoming 4P isolators rated at 125A or 250A feeding different combinations of socket outlets rated at 16A, 32A and 63A. See over the page for full details of the range.

The standard assemblies are protected to IP55 and can be wall mounted, stand mounted or mounted within a crash frame.

Protection

Sockets up to 32A rating are individually protected by MCBs and 30mA RCCBs in accordance with BS7671 Regulation 704.410.3.10 (ii). Sockets rated at 63A are also provided with MCB and 30mA RCCB protection, although the 30mA RCCBs could be replaced by devices with a 300mA or 500mA sensitivity (with or without time delay) and the assembly would still meet the requirements of BS7671 Regulation 704.411.3.2.1 (and Regulation 411.3.2.4).

63A Sockets

In order to meet the requirements of BS7375 (Code of practice for distribution of electricity on construction and building sites), MDAs are available with switched and interlocked 63A sockets, which prevents the insertion or withdrawal of plugs on-load.

Plug-in Site Transformers

To complement the range of MDAs with sockets, we have also introduced 5kVA single-phase and 10kVA three-phase site transformers with incoming appliance inlets. These enable site transformers to be connected to MDAs via 32A 230V or 32A 400V heavy duty extension leads. Please see over the page for details of these site transformers and extension leads.

In addition to the standard products detailed overleaf, Blakley Electrics are able to supply non-standard MDAs, Site Transformers and Extension Leads and we would be pleased to quote for specific requirements.



B3 series MDA with sockets mounted in a heavy duty crash frame



B2 series MDA with sockets mounted on a galvanized stand

Mains Distribution Assemblies, 125A / 250A incomers, fitted with socket outlets, MCB / RCCB protected			
Part	Type	Incoming Device	Sockets / Protection
S140481	B2/I125-4P/C8-RCD/S8/IP55	125A, 4P, Switch	2 no. 16A 230V 3P IP67 sockets each protected by a 16A SP MCB / DP 30mA RCCB 2 no. 32A 230V 3P IP67 sockets each protected by a 32A SP MCB / DP 30mA RCCB 4 no. 32A 400V 5P IP67 sockets each protected by a 32A TP MCB / 4P 30mA RCCB
S140488	B2/I125-4P/C6-RCD/S6-32/IP55	125A, 4P, Switch	6 no. 32A 400V 5P IP67 sockets each protected by a 32A TP MCB / 4P 30mA RCCB
S140489	B2/I125-4P/C5-RCD/SI1-63/S4-32/IP55	125A, 4P, Switch	1 no. 63A 400V 5P IP67 switched and interlocked socket protected by a 63A TP MCB / 4P RCCB 4 no. 32A 400V 5P IP67 sockets each protected by a 32A TP MCB / 4P 30mA RCCB
S140512	B2/I125-4P/C5-RCD/S5/IP55	125A, 4P, Switch	1 no. 63A 400V 5P IP67 socket protected by a 63A TP MCB / 4P 30mA RCCB 4 no. 32A 400V 5P IP67 sockets each protected by a 32A TP MCB / 4P 30mA RCCB
S140520	B2/I125-4P/C9-RCD/S9-32/IP55	125A, 4P, Switch	9 no. 32A 230V 3P IP67 sockets each protected by a 32A SP MCB / 2P 30mA RCCB
S140835	B3/I250-4P/C10-RCD/S10/IP55	250A, 4P, Switch	10 no. 32A 400V 5P IP67 sockets each protected by a 32A TP MCB / 4P 30mA RCCB
S140526	B3/I250-4P/C8-RCD/SI2-63/S6-32/IP55	250A, 4P, Switch	2 no. 63A 400V 5P IP67 switched & interlocked sockets each protected by a 63A TP MCB / 4P 30mA RCCB 6 no. 32A 400V 5P IP67 sockets each protected by a 32A TP MCB / 4P 30mA RCCB
S140617	B3/I250-4P/C8-RCD/S8/IP55	250A, 4P, Switch	2 no. 63A 400V 5P IP67 sockets each protected by a 63A TP MCB / 4P 30mA RCCB 6 no. 32A 400V 5P IP67 sockets each protected by a 32A TP MCB / 4P 30mA RCCB
S140714	B3/I250-4P/C15-RCD/S15-32/IP55	250A, 4P, Switch	15 no. 32A 230V 3P IP67 sockets each protected by a 32A SP MCB / 2P 30mA RCCB
S140593	Stand for B2 / B3 series MDA	Part No. S140723	Crash frame for B2 / B3 series MDA
Site Transformers with Appliance Inlets (allowing transformers to be connected to MDAs via extension leads)			
Part	Type / Rating / Voltage Ratio	Input	Socket Outlets / Protection
S210338	TA/AI/P/1/5/S5 5kVA, single-phase, 230:110V	32A, 230V, 3P, IP44 appliance inlet feeding a DP MCB	4 no. 16A 3P 110V IP44 sockets protected by 2 no. 16A DP MCBs 1 no. 32A 3P 110V IP44 socket protected by 1 no. 32A DP MCB
S210339	TA/AI/P/3/10/S6 10kVA, three-phase, 400:110V	32A, 400V, 5P, IP44 appliance inlet feeding a TP MCB	4 no. 16A 3P 110V IP44 sockets protected by 4 no. 16A DP MCBs 2 no. 32A 3P 110V IP44 sockets protected by 2 no. 32A DP MCBs
S210340	TA/AI-S1/P/3/10/S6 10kVA, three-phase, 400:110V	As S210339 plus a 32A 400V 5P IP44 socket to feed another transformer, etc.	4 no. 16A 3P 110V IP44 sockets protected by 4 no. 16A DP MCBs 2 no. 32A 3P 110V IP44 sockets protected by 2 no. 32A DP MCBs
Extension Leads to enable above Site Transformers and other equipment to be plugged-in to sockets on MDAs			
Part	Type	Description	
S050145	EXL/2.5/14/16/230/H07/IP44	14M 2.5mm ² 3C H07 RN-F cable c/w 16A 3P 230V IP44 plug & coupler	
S050206	EXL/2.5/14/16/230/H07/IP67	14M 2.5mm ² 3C H07 RN-F cable c/w 16A 3P 230V IP67 plug & coupler	
S050147	EXL/4/14/32/230/H07/IP44	14M 4mm ² 3C H07 RN-F cable c/w 32A 3P 230V IP44 plug & coupler	
S050207	EXL/4/14/32/230/H07/IP67	14M 4mm ² 3C H07 RN-F cable c/w 32A 3P 230V IP67 plug & coupler	
S050182	EXL/6/14/32/400/H07/IP44	14M 6mm ² 5C H07 RN-F cable c/w 32A 5P 400V IP44 plug & coupler	
S050227	EXL/6/14/32/400/H07/IP67	14M 6mm ² 5C H07 RN-F cable c/w 32A 5P 400V IP67 plug & coupler	
S050194	EXL/16/14/63/400/H07/IP67	14M 16mm ² 5C H07 RN-F cable c/w 63A 5P 400V IP67 plug & coupler	
Transformers and Extension Leads to other configurations are available to order.			