AUTOMATIC MAINS FAILURE ASSEMBLIES

A comprehensive range of 4P Automatic Mains Failure Assemblies (AMF) designed for permanent or temporary installations, rated from 100A to 800A. Assemblies are housed in robust, wall mounting enclosures providing ingress protection to IP55. For free-standing and portable applications, sturdy stands and crash frames are available. Cable entry and exit is via removable gland plates in the underside of the enclosure.

When the permanent mains supply fails, AMF assemblies changeover automatically from permanent mains to stand-by generator (or alternative mains). Upon restoration of the permanent supply, the system can automatically revert to permanent mains and halt the stand-by generator after a run down period (where applicable). Please note: when there is a loss of the permanent mains, there is not a seamless transition to stand-by power. Typical applications range from refrigeration and process plants where an extended period without power has a high financial cost, to installations in remote locations where overhead lines are vulnerable to extreme weather events.

Part No. S010110 100A AMF Assembly

Changeover Equipment

AMF assemblies comprise of 2 no. 4P contactors, mechanically and electrically interlocked to prevent simultaneous closure (both devices can be open at the same time). The contactors have an AC1 Utilisation Category and are controlled by a Deep Sea DSE 0334 electronic controller (full details of the device are available on request).

Part No. S010110 100A AMF Assembly
Lower Shield Plate Removed

Standard Operation

As standard, AMF assemblies are configured to send a start signal to a stand-by generator upon failure of the mains supply. The system only changes source after a pre-set delay, which allows the generator sufficient time to run-up before taking the load. Upon restoration of the mains, the system only changes the source back to mains after a pre-set period has elapsed. There is also the option of leaving the stand-by generator as the primary source of power for an extended period.

Phase sequence protection is incorporated to ensure the generator supply has the correct phase rotation and manual over-ride control is incorporated within the panel. The controller can also operate with an “alternative mains” as the stand-by supply. The controller is fully configurable on site and parameters can be changed to suit the requirements of different applications and generators.

Part No.	Type Ref.	Rating	Dimensions, H x W x D	Weight
S010110	AMF100/DSC	2 x 100A 4P Contactors	881 x 737 x 282 mm	50 kgs
S010111	AMF200/DSC	2 x 200A 4P Contactors	881 x 737 x 282 mm	55 kgs
S010113	AMF500/DSC	2 x 500A 4P Contactors	1063 x 980 x 336D mm	120 kgs
S010115	AMF800/DSC	2 x 800A 4P Contactors	913 x 1338 x 432D mm	145 kgs

Part No. S010110 100A AMF Assembly
Upper and Lower Shield Plates Removed

Plug-in Generator

If an installation does not have a permanent generator on site, please refer to our range of Generator Connection Points and MCO series of manual changeover switch assemblies, which provide an economic, safe and speedy way of providing an installation with stand-by power from a portable generator.