SUGGESTED TECHNICAL SPECIFICATION

Transfer Switching Equipment for high

current rating applications (4000-6300Amp)

**Purpose of this specification**

This specification describes transfer switching equipment rated at 660Vac having 3 stable positions (I - O - II) and designed to switch on-load with a fast and reliable transfer from one supply source to the other.

1. **Standards and certificates**

The transfer switching equipment must comply fully with the following standards whilst compliance with the said standards must be shown on the product sticker:

* IEC60947-6-1
* GB 14048-11

The product research and development as well as the manufacturing facility must be certified to ISO 14001 for environmental management systems and to ISO 9001 for quality management.

1. **General Characteristics**

The transfer must be of the open transition type with the capability to perform on-load switching in full conformity with IEC 60947-6-1 and GB 14048-11 standards (Class PC) with minimal power supply interruption to the load during transfer.

As a minimum the transfer switching equipment should:

* include mechanically interlocked switches (3 or 4 poles) to ensure fast switching whilst providing a neutral (0 - Off) position and ensure that the main and alternative power supplies do not overlap. The 0 position can also be used during maintenance of the installation, providing safe isolation between both supply sources and the load.
* be able to be operated manually with a removable handle. (Metal Rod)
* come with an integrated dual power supply that accepts remote orders through volt-free contacts
* be available as a fixed or completely withdrawable type of transfer switch for continuous process applications
* be composed of Class PC type switches with easily accessible power connections located at the rear of the transfer switch. No external bridging bars should be necessary to connect the load to source I or source II.

The transfer switching equipment may be supplied as an RTSE (remotely operated transfer switching equipment controlled by external dry contacts) or as an ATSE (automatic TSE) including an ATyS C20 / C30 or C40 ATS controller equipped with or without a door mounted D10/20 display.

1. **Functions and performance**

The transfer switching equipment should offer:

* high withstand short circuit current ratings of 143kA Icm (making) and 65kA for 0.1sec Icw (withstand).
* Load switching capacity of AC33iB (6xIn cos Ø 0.5) without derating for GB 14048-11 and up to AC32B (3xIn cos Ø 0.65) without derating for IEC 60947-6-1.

1. **Manufacturer**

Acceptable manufacturer in line with this specification is SOCOMEC “ATyS d H” or equal and approved.