



# Power Plant Electrical Technologies (Pty) Ltd

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## ISO-Flex off Load Isolator Solution



ISO-Flex is a unique heavy-duty medium voltage snap action on load isolator solution, with several options tailored to your operational requirements and budget.

The ISO-Flex solution is designed to provide a safe and easy-to-use isolation facility suitable for a range of applications including local isolation of high-power mill motors, transformers, or line feeds for electrical circuits. With voltage ratings suitable for 6,6 kV, 11 kV, and 15 kV applications, current ratings at 630 amp and 1250 Amp, and fault current ratings up to 31,5 kV. The ISO-Flex solution is the option to suit your unique application.

ISO-Flex is suitable for indoor or outdoor installations and can come with a snap-action manual operating mechanism, or a push button-controlled motor mechanism. ISO-flex can be fitted with CEF fuses, with striker bar mechanism to provide short circuit protection and fuse blown interlocking to prevent single phasing.

With ISO-Flex we provide you with a highly robust and reliable isolation solution that enables your maintenance personnel to safely isolate and lock out high-power equipment locally, on the operating plant floor, without the need to call out electrical to rack and lock out substation switchgear.

ISO-Flex saves you time, complication, and cost, whilst enhancing the safety of your maintenance, and operations personnel. The standard ISO-flex package is available in an IP 54 enclosure, with an integrated safe arc venting feature, snap action off load isolator, open and closed status indication, operating lever arm, and lockout device.

Added features include CEF fuses with trip striker bar, shunt trip device, motor mechanism with open/close push buttons, with current transformers and an auxiliary voltage transformer.

The ISO-Flex is equipped with an ABB NAL/F on load isolation device designed per IEC 62271-105, 60129, and 60694.



## ORDERING CODE SELECTION

SCAN FOR WEBSITE  
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| Ordering Information            |                               | Our Standard stock solution shown as example: Iso-Flex N N 15 6 I H K S L N 110A N C 0600A |   |    |    |   |   |   |  |   |  |      |   |   |  |  |       |
|---------------------------------|-------------------------------|--------------------------------------------------------------------------------------------|---|----|----|---|---|---|--|---|--|------|---|---|--|--|-------|
| On-Load Isolator / Disconnecter | Iso-Flex                      |                                                                                            |   |    |    |   |   |   |  |   |  |      |   |   |  |  |       |
| Fuse Option                     | Fused                         | F                                                                                          |   |    |    |   |   |   |  |   |  |      |   |   |  |  |       |
|                                 | No Fuses                      | N                                                                                          |   |    |    |   |   |   |  |   |  |      |   |   |  |  |       |
| Earth Switch                    | With Earth Switch             |                                                                                            | E |    |    |   |   |   |  |   |  |      |   |   |  |  |       |
|                                 | No Earth Switch               |                                                                                            | N |    |    |   |   |   |  |   |  |      |   |   |  |  |       |
| Voltage Rating                  | 11kV                          |                                                                                            |   | 11 |    |   |   |   |  |   |  |      |   |   |  |  |       |
|                                 | 15kV                          |                                                                                            |   | 15 |    |   |   |   |  |   |  |      |   |   |  |  |       |
|                                 | 22kV                          |                                                                                            |   | 22 |    |   |   |   |  |   |  |      |   |   |  |  |       |
|                                 | 33kV                          |                                                                                            |   | 33 |    |   |   |   |  |   |  |      |   |   |  |  |       |
| Current Rating                  | 630A (11, 15, 22, 33kV)       |                                                                                            |   |    | 06 |   |   |   |  |   |  |      |   |   |  |  |       |
|                                 | 1000A (33kV)                  |                                                                                            |   |    | 10 |   |   |   |  |   |  |      |   |   |  |  |       |
|                                 | 1250A (11kV)                  |                                                                                            |   |    | 12 |   |   |   |  |   |  |      |   |   |  |  |       |
| Environment                     | Indoor                        |                                                                                            |   |    |    | I |   |   |  |   |  |      |   |   |  |  |       |
|                                 | Outdoor                       |                                                                                            |   |    |    | O |   |   |  |   |  |      |   |   |  |  |       |
| Operation Type                  | Hand Operated                 |                                                                                            |   |    |    |   | H |   |  |   |  |      |   |   |  |  |       |
|                                 | Motor Operated                |                                                                                            |   |    |    |   | M |   |  |   |  |      |   |   |  |  |       |
| Key Interlock                   | With Key Interlock            |                                                                                            |   |    |    |   |   | K |  |   |  |      |   |   |  |  |       |
|                                 | No Key Interlock              |                                                                                            |   |    |    |   |   | N |  |   |  |      |   |   |  |  |       |
| Status Indication               | Local Status Indication Lamps |                                                                                            |   |    |    |   |   |   |  | L |  |      |   |   |  |  |       |
|                                 | Remote Status Indication      |                                                                                            |   |    |    |   |   |   |  | R |  |      |   |   |  |  |       |
|                                 | No Indication                 |                                                                                            |   |    |    |   |   |   |  | N |  |      |   |   |  |  |       |
| Auxiliary Voltage               | 24VDC                         |                                                                                            |   |    |    |   |   |   |  |   |  | 024D |   |   |  |  |       |
|                                 | 48VDC                         |                                                                                            |   |    |    |   |   |   |  |   |  | 048D |   |   |  |  |       |
|                                 | 110VDC                        |                                                                                            |   |    |    |   |   |   |  |   |  | 110D |   |   |  |  |       |
|                                 | 220VDC                        |                                                                                            |   |    |    |   |   |   |  |   |  | 220D |   |   |  |  |       |
|                                 | 110VAC                        |                                                                                            |   |    |    |   |   |   |  |   |  | 110A |   |   |  |  |       |
|                                 | 220VAC                        |                                                                                            |   |    |    |   |   |   |  |   |  | 220A |   |   |  |  |       |
|                                 | None                          |                                                                                            |   |    |    |   |   |   |  |   |  | 000N |   |   |  |  |       |
| Auxiliary Supply Source         | Integrated VT                 |                                                                                            |   |    |    |   |   |   |  |   |  |      | V |   |  |  |       |
|                                 | External Source               |                                                                                            |   |    |    |   |   |   |  |   |  |      | N |   |  |  |       |
| Load to be Isolated             | Motor                         |                                                                                            |   |    |    |   |   |   |  |   |  |      |   | M |  |  |       |
|                                 | Transformer                   |                                                                                            |   |    |    |   |   |   |  |   |  |      |   | T |  |  |       |
|                                 | Cable                         |                                                                                            |   |    |    |   |   |   |  |   |  |      |   | C |  |  |       |
|                                 | Other (Specify)               |                                                                                            |   |    |    |   |   |   |  |   |  |      |   | O |  |  |       |
| Load Current                    | Amps                          |                                                                                            |   |    |    |   |   |   |  |   |  |      |   |   |  |  | XXXXA |

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