



Power Plant Electrical Technologies (Pty) Ltd



ISO-FLEX RANGE

Protected on Load Isolator Solution

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INTRODUCTION

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 safe and easy-to-use protection and/or isolation facility for a range of applications including local isolation of high-power mill motors, transformers, and 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 has the option to suit your unique application.

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

In addition, Iso-flex can be equipped with an electronic protection relay to further enhance the protection features including IDMT overcurrent, overload, earth fault, and more.

We provide you with a highly robust and reliable isolation solution enabling your maintenance personnel to safely isolate and lock out high-power equipment locally on the operating plant floor, with the need to call our electrical to rack out and lock out substation switchgear. ISO-Flex saves you time, complication, and cost, whilst enhancing the safety of your maintenance personnel.



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OUR ISO-FLEX SOLUTIONS OFFERS THE FOLLOWING:

- Reliability of a brand-new switchgear.
- Saving on CAPEX by renewing only the worn-out parts while benefiting from new technologies.
- Highly robust and reliable isolation.
- Increased personnel safety:
 - Mitigate risks of electrical flash fatalities.
 - Mitigate risks of power outages resulting in dangerous accidents.
- IP 54 enclosure
- Added features include HRC fuses with trip striker bar, shunt trip device, motor mechanism with open/close push buttons, electronic relay with current transformers and an auxiliary power transformer.
- Equipped with an ABB NAL/F on load isolation device designed per IEC 62271-105, 60129, and 60694



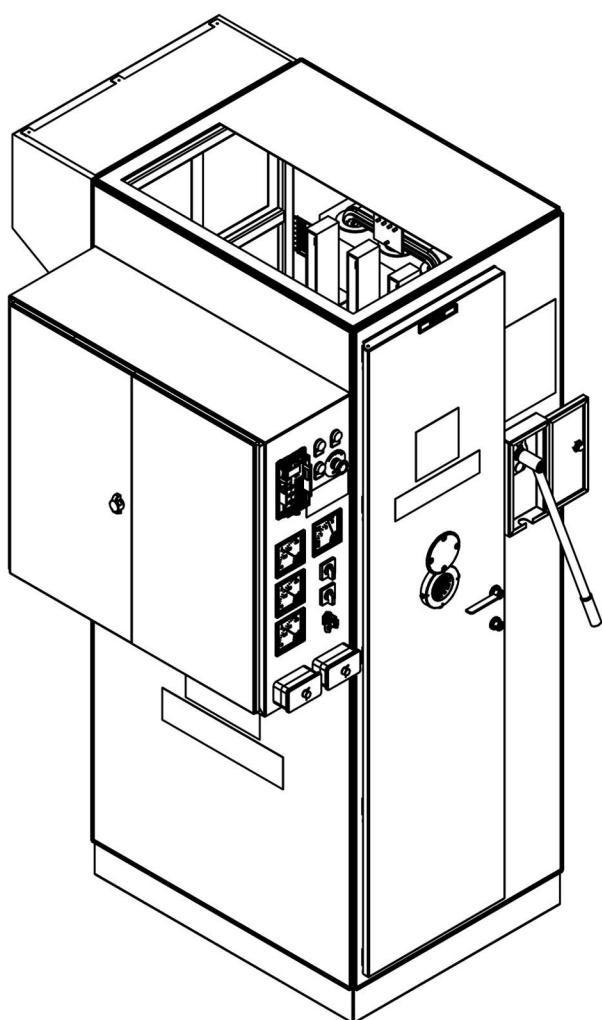
TECHNICAL DATA SHEET

The Power Plant Electrical Technologies Flexible Switchgear range aims to provide solutions that are robust, reliable, sustainable, and efficient.

The design and engineering philosophy used in our manufacturing approach speak to solutions that provide the best results for your company, your process, and your profits.

The MV switchgear is suitably rated and manufactured in compliance with IEC 62271 standards and is manufactured under an ISO 9001-2015 standard of quality.

The LV switchgear is suitably rated and manufactured in compliance with SANS 1973-1/IEC 60439-1 or IEC 61439 standards and is manufactured under an ISO 9001-2008 standard of quality.



ISOMETRIC VIEW

Ordering Information. Our Standard stock solution is shown in yellow.

Iso_Flex	On Load Disconnect	Specify your Full Load / Operating Current in Amps
1	Fuse Option F = Fused or N = Not Fused	
2	Fuse Striker Bar B = With Striker Bar or N = No Striker Bar	
3	Voltage in kV 11 15 22 33	
4	Current Rating A 630 1250	
5	Fault Current Rating 31,5 kA for 1 sec (upto 24 kV) 25 kA for 1 set (36 kV)	
6	Shunt Trip S = Shunt Trip Option or N = No shunt trip option	
7	Operation H = Hand operator or M = Motor Operated	
8	Status Indicators I = Locas Status lamps or N = No local status lamps	
9	Key Interlock option K = Key Interlock or N = Not Key Interlocked	
10	Earth Switch option E = With Earth Switch or N For no earth Switch	
11	Aux Voltage DC = D 24, 48, 110, 220V AC = A 110, 220V	
12	Self Powered Relay R1 = Basic relay N = No Basic relay	
13	Auxiliary Powered Relay R2 = Advanced Relay N = No Advanced relay	
14	Auxiliary Transformer T = Auxiliary Transformer N = No Auxiliary Transformer	
15	Load Type M = Motor, T = Transformer, F = Cable Feeder, O = Other	

Note : Please specify your load type and full load / operating current



CONTACT US



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