

Rotating Track Switches

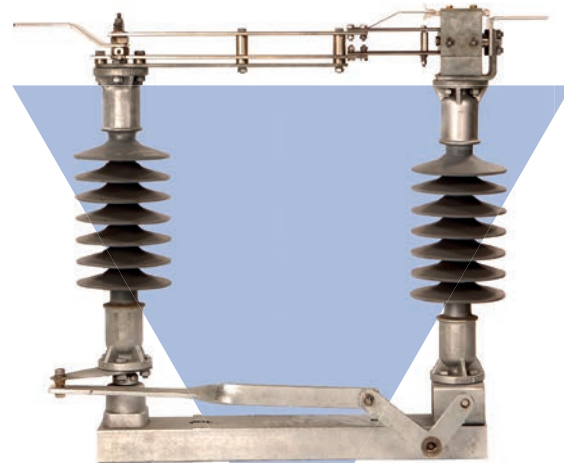
25kV 1250A 31.5kA/3secs.

Product Features and Benefits:

- ▶ Compliant with Network Rail Electrical Safety Principles for New Electrification (ESPFNE) policy
- ▶ Designed and manufactured in the United Kingdom
- ▶ Enhanced workforce safety through provision of additional earthing locations
- ▶ Improved direct drive motor mechanism available with key interlock to prevent inadvertent operation, compliant with ESPFNE
- ▶ Interchangeable with existing MLE 800A units*
- ▶ Network Rail approved (Product Approval Certificate PA05/04116)
- ▶ Reduced maintenance
- ▶ Same application range as earlier MLE 800A units
- ▶ Suitable for mounting on standard OLE structures including over-track gantries and portals
- ▶ Superior ratings and performance

Technical Specifications:

- ▶ Available in 2 or 3 position configurations
- ▶ Design based on Network Rail Specification NR/PS/ELP/27184
- ▶ Dual indication switches for remote confirmation of isolator position when motorised
- ▶ Impulse withstand 250kV
- ▶ Making and breaking of 6A line charging currents as standard
- ▶ Making (12.5kApeak) and breaking (1250A) of full load currents available with optional Vacuum Interrupters
- ▶ Manual or direct drive motorised mechanisms available
- ▶ Mechanical flag to indicate earth position when manually operated
- ▶ Optional indication switch for remote confirmation of earth position when motorised
- ▶ Polymeric insulators
- ▶ Single or twin variants



Single Pole
 2-Position (Closed/Open)



Single Pole
 3-Position (Closed/Open/Earth)
 With Vacuum Interrupter

1250A Rotating Track Switch & Vacuum Interrupter

Equipment Overview

Designed to comply with Network Rail's latest specification for 25kV a.c. disconnectors, earthing switches and switches, the Vacuum Interrupter has been developed to cater for the requirement for cost-effective and reliable load breaking and short-circuit making of energised overhead lines. Used in conjunction with the MLE range of fully approved disconnectors it is the first of its kind to allow safe on-load operation of an outdoor structure mounted rotating track switch, thereby maintaining electrical clearances in congested overhead conductor systems while continuing to provide clearly visible indication of isolation and minimising disruption to the network.

The Vacuum Interrupter allows track switches to operate when feeder circuit breakers are closed without the risk of damaging the disconnectors. Arc interruption is achieved by drawing the arc through a silicone moulded vacuum bottle which offers extremely high dielectric strength. The interruption of current in this way is the ideal switching technology for the application and provides an environmentally friendly, low maintenance and long-life switching solution.

Life of Vacuum Interrupters

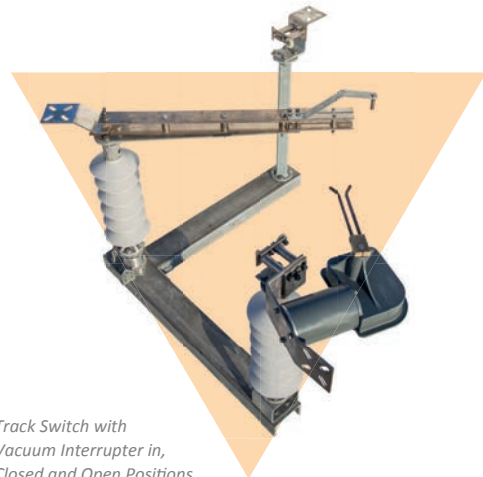
MLE Vacuum Interrupters have been successfully mechanically endurance tested to Class 3 (10,000 operations) with no maintenance in accordance with the relevant British and international standards. The vacuum device itself is designed to withstand in excess of 30,000 operations at full load.

Ordering Information

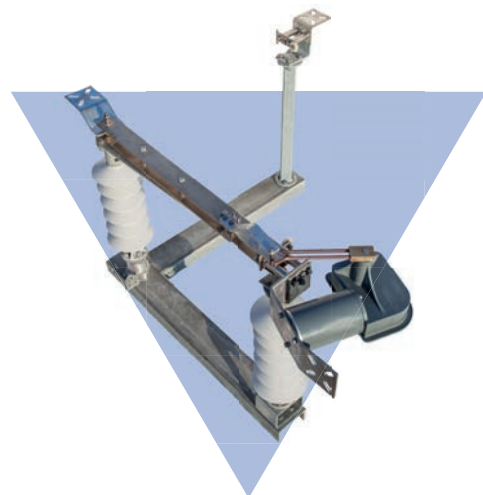
Vacuum Interrupters can be installed during switch production or added later as a field retrofit or upgrade.



Vacuum Interrupter



Track Switch with Vacuum Interrupter in, Closed and Open Positions



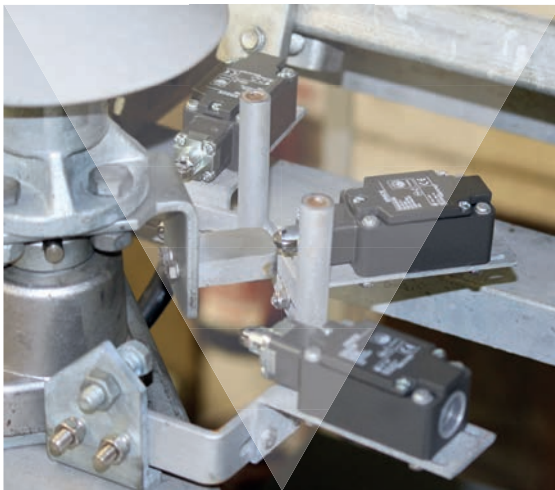
Field Application of Vacuum Interrupters

Service Voltage	BREAKING CAPACITIES				
	Mainly Active Load	Single Capacitor Bank	Cable Charging	Line Charging	Short Circuit Making
25kV	1250A	200A	80A	10A	12.5kA

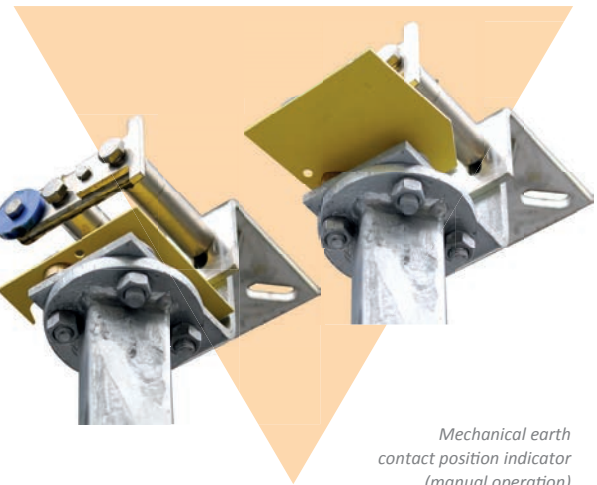
1250A Rotating Track Switch and BR Mk. 2 Motorised Operating Mechanism

Product Features and Benefits:

- ▶ Available with key interlock to prevent inadvertent operation, compliant with Network Rail Electrical Safety Principles for New Electrification (ESPFNE) policy
- ▶ Design based on Network Rail Specification NR/PS/ELP/27184 but using a proven direct drive design
- ▶ Dual indication switches for remote confirmation of isolator position
- ▶ Enclosure has the same dimensions and fixing positions as earlier specification
- ▶ Existing cables can be accommodated in the same position in the new enclosure
- ▶ Interchangeable with existing units
- ▶ Remote or local operation
- ▶ Updated direct drive motor mechanism



Indication switches for isolator contact position (electrical operation)



Mechanical earth contact position indicator (manual operation)



Morris Line Engineering specialises in the production of isolators for power systems. Supplying mainly power distribution utilities and railways, we have an extensive range from low voltage d.c. through to 132kV. We have supplied 25kV isolators to the British rail network for over 30 years.

Although best known in the railway market as a supplier of 25kV isolators, we also manufacture high current DC switches and LV switchboards.



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Along with our experienced design and installation teams we are able to provide a complete turnkey package for railway projects.

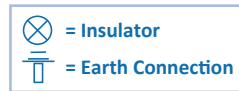
MLE is qualified as a registered supplier to Network Rail by **Achilles RISQS**.

Our quality system has been approved to:
ISO 9001:2008

Our environmental system has been approved to:
ISO 14001:2004

1250A Rotating Track Switch Range

Standard Configurations



		Series 1 No:	Series 2 No:	PADS No:	MLE No:	
2-Position Closed/Open (Clockwise)						
With Base	199/588/101	564.00081	C99/588/001	0091/002850	30460	
Without Base	199/588/111	564.00091	C99/588/011	0091/002651	30442	
2-Position Closed/Open (Anti-clockwise)						
With Base	199/588/102	564.00082	C99/588/002	0091/002651	30462	
Without Base	199/588/112	564.00092	C99/588/012	0091/002653	30444	
3-Position Closed/Open/Earth (Clockwise)						
With Base	199/588/103	564.00083	C99/588/003	0091/002853	30459	
Without Base	199/588/113	564.00093	C99/588/013	0091/002852	30437	
3-Position Closed/Open/Earth (Anti-clockwise)						
With Base	199/588/104	564.00084	C99/588/004	0091/002854	30461	
Without Base	199/588/114	564.00094	C99/588/014	0091/002652	30443	
Twin 3-Position Closed/Open/Earth (Common Earth)						
With Base	199/588/105	564.00085	C99/588/005	0091/002654	30448	
Without Base	199/588/115	564.00095	C99/588/015	0091/002855	30463	
Twin 3-Position Closed/Open/Alternate Feed						
With Base	199/588/106	564.00086	C99/588/006	0091/002857	30450	
Without Base	199/588/116	564.00096	C99/588/016	0091/002856	30464	
3-Position Closed/Open/Alternate Feed						
With Base	199/588/107	564.00087	C99/588/007	0091/002859	30466	
Without Base	199/588/117	564.00097	C99/588/017	0091/002858	30452	
Twin 3-Position Closed/Open/Earth (Common Contact)						
With Base	199/588/108	564.00088	C99/588/008	0091/002656	30451	
Without Base	199/588/118	564.00098	C99/588/018	0091/002860	30465	
2-Position Earth/Open (Clockwise)						
With Base	199/588/109	564.00089	C99/588/009	0091/002864	30467	
Without Base	199/588/119	564.00099	C99/588/019	0091/002863	30453	
2-Position Earth/Open (Anti-clockwise)						
With Base	199/588/110	564.00090	C99/588/010	0091/002862	30643	
Without Base	199/588/120	564.00100	C99/588/020	0091/002861	30644	