

Conductor Systems

Mobilis MOVIT Single Pole Conductor System



Introduction

Mobilis MOVIT is a high quality heavy duty single – pole conductor system distributed exclusively in the UK by SIMBAL Ltd.

Mobilis MOVIT is available with intensities from 315 Amp up to 630 Amp. All systems utilise an aluminium material with a stainless steel running insert which provides improved conductivity hence reducing voltage drop and allowing use of smaller systems for a given application.

Mobilis MOVIT conforms to international standards CEI60439-2 and EN60204-32 and provides a protection level of IP23 in accordance with CEI60529. It has a maximum operating voltage of 750 VAC and can be used in ambient temperatures ranging from -30°C to +55°C.



Typical Applications

Mobilis MOVIT is the ideal solution for many different applications, some more popular ones include :

- Large overhead cranes
- People movers
- Fairground rides
- Conveyors
- General plant and machinery

Advantages

The design characteristics of Mobilis MOVIT provide a long list of advantages when compared with other large capacity systems :

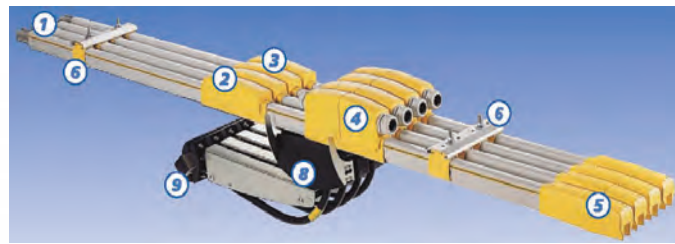
- Clip on hangers and joint covers for fast, easy installation
- Rigid construction ensures true IP23 finger tight profile
- Aluminium conductors with stainless steel contact insert for improved conductivity
- Compact profile with bar centres of only 50mm saves space and minimises volt drop
- Removeable carbons for easy, low cost maintenance
- Suitable for indoor and outdoor installation

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Specification and Technical Details Typical Assembly

- Standard Intensities: 315A, 450A, 630A
- End feed, line fed or multiple feed points
- 2000mm support centres
- Transfer sections available
- Expansion sections for long lengths



1 - Conductor Rails							Dimensions	
Intensity	315 Amp		450 Amp		630 Amp			
Impedance @ 50Hz	0.000227 Ohm/m		0.000172 Ohm/m		0.000149 Ohm/m			
Weight (kg/m/rail)	0.81		1.03		1.26			
Phase/Earth	Phase	Earth	Phase	Earth	Phase	Earth		
Code - 4m length	MC1314	MC1324	MC1414	MC1424	MC1614	MC1624		
Code - 3m length	MC1313	MC1323	MC1413	MC1423	MC1613	MC1623		
Code - 2m length	MC1312	MC1322	MC1412	MC1422	MC1612	MC1622		
Code - 1m length	MC1311	MC1321	MC1411	MC1421	MC1611	MC1621		
Code - special length	MC1310	MC1320	MC1410	MC1420	MC1610	MC1620		

<h4>2 - Connection Joint</h4> <p>Ref: MC1000 Standard for all intensities</p>	<h4>3 - Joint Cover</h4> <p>Ref: MC2200 (length = 250mm) Insulates the joint connection</p>	<h4>4 - Feed Box</h4> <p>Ref: MC2300 Can be positioned at any joint (comes c/w 2 x M32 glands & 10mm lugs)</p>
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<h4>5 - End Cap/Transfer Element</h4> <p>Ref: MC2400 Standard end cap, doubles as transfer element when required</p>	<h4>6 - Sliding Suspension</h4> <p>Ref: MC2504 50mm crs - to be installed every 2000mm along system length</p>	<h4>7 - Fixing Clamp</h4> <p>Ref: MC2600 2 clamps to be placed either side of sliding suspension in 2 positions along system</p>
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<h4>8 - Collector</h4> <p>Max. travel speed 600m/min.</p> <table border="1"> <thead> <tr> <th>Type</th> <th>60A</th> <th>200A</th> <th>400A</th> </tr> </thead> <tbody> <tr> <td>Phase Ref.</td> <td>MC4162</td> <td>MC4112</td> <td>MC4212</td> </tr> <tr> <td>Earth Ref.</td> <td>MC4172</td> <td>MC4122</td> <td>MC4222</td> </tr> </tbody> </table>	Type	60A	200A	400A	Phase Ref.	MC4162	MC4112	MC4212	Earth Ref.	MC4172	MC4122	MC4222	<h4>9 - Collector bracket</h4> <p>Ref: MC4900 For single 200A and Double 400A up to 5 poles</p>	<h4>10 - Fixing Bracket</h4> <p>Ref: MC2551/ MC2571 For mounting of slide suspensions - clamp thickness up to 32mm</p>
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Phase Ref.	MC4162	MC4112	MC4212											
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