

DAVIS[®]

POWERTRACK BUSWAY SYSTEM

40A, 63A & 80A 3-PHASE 50Hz POWERTRACK BUSWAY

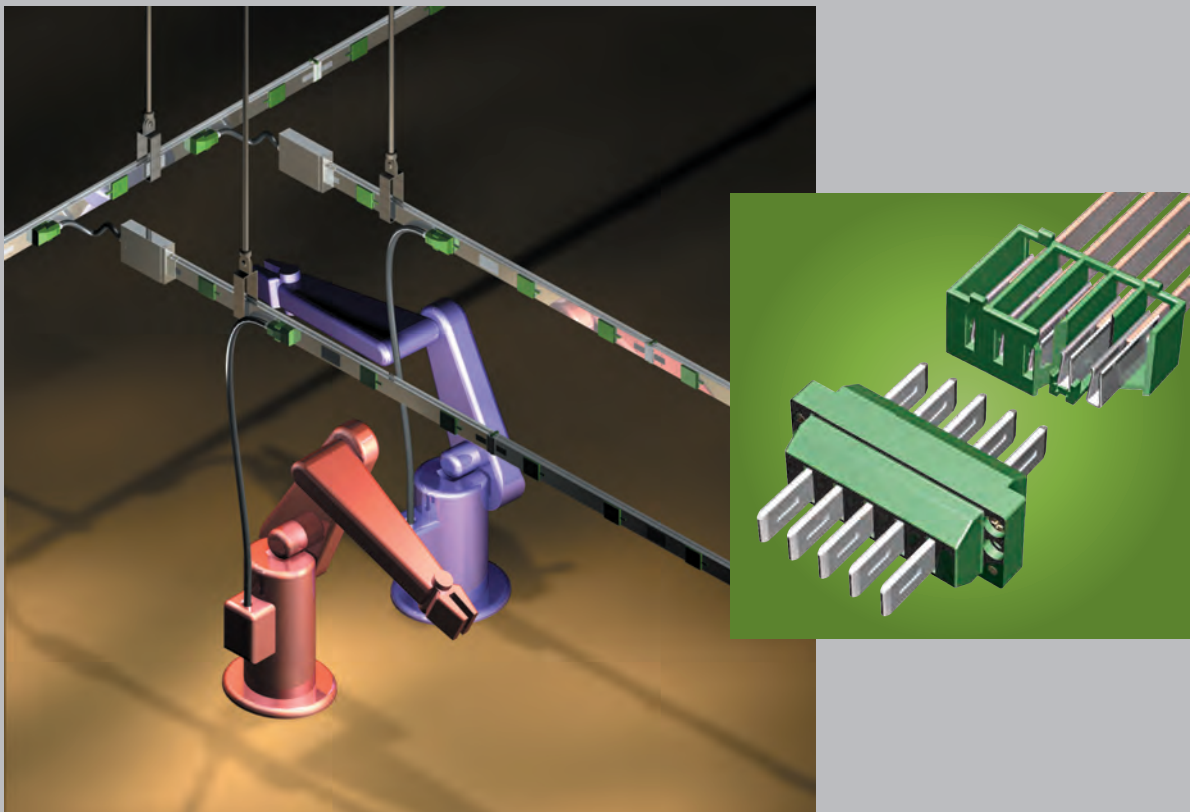
DAVIS also manufactures low ampere 40A, 63A & 80A Powertracks specially designed for small and medium industries including workshops where energy requirements are low but require a lot of flexibilities as quick changes in production workflows often necessitate relocation of machinery, equipment, or exhibition items.

DAVIS Powertrack Busway is suitable for:

- Small and medium industrial premises
- Business centres
- Exhibition centres
- Workshops
- Display areas
- Theatres

Joint Connector

The joint connector allows for easy push-fit connection of Powertracks without the need for special tools during installation



Powertrack Busway is ideal for Flexible Manufacturing System (FMS) environments

POWERTRACK BUSWAY

Davis Powertrack Busway is designed to comply with IEC 60439-2-200.

CURRENT RATING

40Amp, 240/415V, 50 Hz three-phase

63Amp, 240/415V, 50 Hz three-phase

80Amp, 240/415V, 50 Hz three-phase

SHORT CIRCUIT RATING

The short circuit protection is provided by fuselinks BS 88, 100 Amp Fuse or 100 Amp MCCB.

Prospective current	16 kA
Mechanical withstand	10 kA peak
Thermal withstand	1200 A 0.4 seconds

EARTH FAULT LOOP IMPEDANCE

The IEE wiring regulations require that the total earth loop impedance of any circuit must be low enough to ensure that the protective device will operate within the time specified. The earth fault loop impedance for the Davis Powertrack Busway System is as follows:-

Phase Busbar	1.20 mV/m
Earth Busbar & Housing	0.70 mV/m
Interconnector	0.20 mV
Cable Feed Unit 32A Tap-Off (4mm ² x 3m)	0.30 mV
Line & Earth	30.0 mV

DEGREE OF PROTECTION

Powertrack	IP 4x
Tap-Off Unit	IP 4x
Cable Feed Unit	IP 4x

VOLTAGE DROP

Busbar (line & neutral)	2.1 mV/A/m
Interconnector	0.2 mV/A
Cable Feed Unit 32A Tap-Off (4mm ² x 3m),	0.3 mV/A
Line & Earth	11.0 mV/A/m

EARTH BONDING

The earth conductor is connected directly to the Powertrack extrusion at both ends of the earth bar.

CONSTRUCTION SPECIFICATIONS

Powertrack Casing	Extruded Aluminium
Fixing Bracket	Galvanised Steel
Cable Feed Unit	Galvanised Steel
Busbar	99.9% high conductivity Copper (2x10mm)
Insulator	Polyester & Polycarbonate
Tap-Off	Polyester/metal
Shutter	Polyacetal
Tap-Off Flexible Conduit	Galvanised conduit steel & PVC insulated

TAP-OFF UNITS

The 32A tap-off unit is normally fused with 3 metres of 4mm² cable in galvanised flexible conduit steel with PVC insulation. 15A and 40A fused tap-off units are also available.

40, 63A & 80A POWERTRACK BUSWAY

Track Length	No. of Tap-offs	3 bars-240V Single phase (Grey)	5 bars-415V Three phase (Black)
0.6m	2	SFPT-3-63-0.6	SFPT-5-63-0.6
1.2m	4	SFPT-3-63-1.2	SFPT-5-63-1.2
2.4m	8	SFPT-3-63-2.4	SFPT-5-63-2.4

* The interconnector is included in each length of trunking unit

* The connection between two lengths of Powertrack can be assembled without using tools