BUSBAR TRUNKING SYSTEMS

MP-H SERIES 160A-600A

The smartest way of power distribution

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Technical Specifications

DTM’s MP-H Busbar Trunking System is designed as a system with pneumatic conductors for low voltage power distribution lines. As a standard, it is manufactured as plug-in type with three tap-off points. It is equipped with aluminum or copper conductors for 160A to 600A. In the 5-pole full neutral configuration, operating voltage is 1000V. The enclosure is made of aluminum or galvanized sheet and has a degree of protection of IP 55.

Area of Use

Trade centers, medium scaled industrial plants, high-rise buildings, places with data centers.

Paint

RAL 7038

Protection

Plug-ins are flameproof (V2) and resistant to adverse ambient conditions and high temperatures. They also resist to severe impacts. The degree of protection of the sealed protective cover, which is made of flame-retardant material, is IP 55. The pressure of the dovetail on the contact surface ensures permeability at spring level.

Double Headed Screw

JOINT BLOCK TORQUE VALUE: 40 lbft (55 Nm)

CLICK

JOINT BLOCK
With the single bolt joint, quick and safe installation.

TAP-OFF UNITS
It is possible to receive current up to 160A using the plastic tap-off units. In case of failure, there is no need to remove the tap-off unit on the busbar for cutting off the power. The only thing to do is to uncover the tap-off unit.

3P+N+PE+FE2 (5 CONDUCTORS) T1

3P+N+PE (4 CONDUCTORS) T2

The cross section of the neutral conductor is same as that of the phase conductor.

The cross section of the earthing conductor is 1/2 of that of the phase conductor.

The cross section of the earthing conductor is same as that of the neutral conductor and put into the enclosure.
MP-H

Medium Power Busbar Trunking Systems

Standard Length

Plug-in Busbar PS

SAMPLE ORDER
250 A Aluminum, Plug-In IP 55 5 Conductor
MP-HA255T1PS

As a standard, there are three tap-off points in plug-in lengths. The number of tap-off points can be increased/decreased upon request.

Plug-in Optional Length PX

SAMPLE ORDER
400 A Aluminum, Plug-In IP 55 5 Conductor
MP-HA405T1PX

FEEDER BUSBAR

It allows for direct supply in power transmission. As a standard, it is 3000 mm. However, upon request, it can be manufactured in different sizes starting from minimum 500 mm.

Feeder Busbar FS

SAMPLE ORDER
400 A Aluminum, Feeder IP 55 5 Conductor
MP-HA405T1FS

Feeder Optional Length FX

SAMPLE ORDER
400 A Aluminum, Elbow IP 55 5 Conductor
MP-HA255T1PS

Elbow Modules

Horizontal Elbow Right YDR

SAMPLE ORDER
400 A Aluminum, Elbow IP 55 5 Conductor
MP-HA405T1FYDR

Horizontal Elbow Left YDL

SAMPLE ORDER
400 A Aluminum, Elbow IP 55 5 Conductor
MP-HA405T1FYDL

Vertical Elbow Downwards DDD

SAMPLE ORDER
400 A Aluminum, Elbow IP 55 5 Conductor
MP-HA405T1FDDD

Vertical Elbow Upwards DDU

SAMPLE ORDER
400 A Aluminum, Elbow IP 55 5 Conductor
MP-HA405T1FDDU

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Elbow Modules

Double Vertical Elbow Upwards Off-Set

**SAMPLE ORDER**
250 A Copper
Off-Set IP 55 5 Conductor
MP-HC265T1FDOU

Double Vertical Elbow Downwards Off-Set

**SAMPLE ORDER**
400 A Copper
Off-Set IP 55 5 Conductor
MP-HC415T1FDOU

Double Horizontal Elbow Right Off-Set

**SAMPLE ORDER**
600 A Copper
Off-Set IP 55 5 Conductor
MP-HC615T1FYOR

Double Horizontal Elbow Left Off-Set

**SAMPLE ORDER**
250 A Copper
Off-Set IP 55 5 Conductor
MP-HC265T1FYOL

Upwards Right Combined Off-Set

**SAMPLE ORDER**
600 A Copper
Off-Set IP 55 5 Conductor
MP-HC615T1FURK

Upwards Left Combined Off-Set

**SAMPLE ORDER**
400 A Aluminum
Off-Set IP 55 5 Conductor
MP-HA405T1FULK

Downwards Right Combined Off-Set

**SAMPLE ORDER**
250 A Copper
Off-Set IP 55 5 Conductor
MP-HC265T1FDRK

Downwards Left Combined Off-Set

**SAMPLE ORDER**
400 A Aluminum
Off-Set IP 55 5 Conductor
MP-HA405T1FDLK

<table>
<thead>
<tr>
<th>(AL)</th>
<th>(CU)</th>
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<tbody>
<tr>
<td>AMR</td>
<td>W</td>
</tr>
<tr>
<td>160A</td>
<td>200</td>
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<td>200</td>
</tr>
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Bussbar Type
Conductor Type
Busbar Code
Degree of Protection
Number of Conductors
Type P-Plug-In/F-Feeder
Module Name

Elbow Modules

Right Upwards Combined Off-Set
RUK

SAMPLE ORDER
250 A Copper Combined Off-Set IP55 5 Conductor
MP-HC265T1FRUK

Left Upwards Combined Off-Set
LUK

SAMPLE ORDER
250 A Copper Combined Off-Set IP55 5 Conductor
MP-HC265T1FLUK

Right Downwards Combined Off-Set
 RDK

SAMPLE ORDER
250 A Aluminum Combined Off-Set IP55 5 Conductor
MP-HA255T1FRDK

Left Downwards Combined Off-Set
LDK

SAMPLE ORDER
250 A Aluminum Combined Off-Set IP55 5 Conductor
MP-HA255T1FLDK

Please contact us for your requests.

Tee Modules

Four-Piece Tee Module
DF

SAMPLE ORDER
250 A Aluminum, Four-Piece Tee Module IP 55 5 Conductor
MP-HA255T1FDT

Centre Tee Module
OT

SAMPLE ORDER
250 A Aluminum, Tee Module IP 55 5 Conductor
MP-HA255T1FOT

Expansion Module
G

SAMPLE ORDER
400 A Aluminum, Expansion Module IP 55 5 Conductor
MP-HA405T1FG

Reduction Module
RD

SAMPLE ORDER
400 A Aluminum, Reduction Module IP 55 5 Conductor
MP-HA405T1FRD

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**SAMPLE ORDER**
400 A Aluminum, Feed Module IP 55 5 Conductor
**MP-HA405T1BM1**

**SAMPLE ORDER**
250 A Aluminum, Centre Feed Module IP 55 5 Conductor
**MP-HA255T1OB1**

**SAMPLE ORDER**
400 A Aluminum, Feed Module IP 55 5 Conductor
**MP-HA405T1BM2**

**SAMPLE ORDER**
250 A Aluminum, Centre Feed Module IP 55 5 Conductor
**MP-HA255T1OB2**

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Panel Modules

- **Panel Module (E)**: PE
  - **SAMPLE ORDER**: 250 A Aluminum, Panel Module IP 55 5 Conductor
    - **MP-HA255T1PME**

- **Panel Module (D)**: PMD
  - **SAMPLE ORDER**: 400 A Aluminum, Panel Module IP 55 5 Conductor
    - **MP-HA405T1PMD**

Standard Modules

- **Flanged End S**
  - **SAMPLE ORDER**: 250 A Aluminum, Flanged End IP 55 5 Conductor
    - **MP-HA255T1S**

- **Horizontal Dilatation Module DH**
  - **SAMPLE ORDER**: 250 A Aluminum, Dilatation IP 55 5 Conductor
    - **MP-HA255T1DH**

**Horizontal Dilatation Information**

In long horizontal runs, the distance between two expansion modules is 40 meters.

Tap-Off Units

- **Tap-Off Unit with Automatic Switch**
  - **KM1**
    - **SAMPLE ORDER**: 250 A Tap-Off Unit Empty IP 55 5 Conductor
      - **MP-HA255T1KM1B**

**Switch Type Code**

- **WITH SWITCH**
  - **S**
- **EMPTY**
  - **B**

Tap-Off Unit with DTM Mechanism and Automatic Switch**

- **KM2**
  - **SAMPLE ORDER**: 160 A Tap-Off Unit with Switch IP 55 5 Conductor
    - **MP-HA165T1KM2S**

**TAP-OFF UNIT WITH DTM MECHANISM AND AUTOMATIC SWITCH**

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<tr>
<th>AMP.</th>
<th>Unit Code</th>
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<th>Y (mm)</th>
<th>Z (mm)</th>
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<td>450</td>
<td>250</td>
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<td>MPKM240</td>
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Tap-Off Unit with Automatic Switch or Fuse

- **KPO**
  - **SAMPLE ORDER**: 80 A Tap-Off Unit IP 55 5 Conductor
    - **MPH0805T1KPO**

**Kutu Kodu**

- **AMP.**
  - **MPH025**: 25
  - **MPH032**: 32
  - **MPH040**: 40
  - **MPH063**: 63
  - **MPH080**: 80
  - **MPH100**: 100
  - **MPH120**: 125
  - **MPH160**: 160

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MP-H

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### ALUMINUM BUSBAR DIMENSIONS AND WEIGHTS

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<th>AMPERE RATING</th>
<th>BUSBAR MM</th>
<th>EACH PHASE</th>
<th>FEEDER KG/M</th>
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### COPPER BUSBAR DIMENSIONS AND WEIGHTS

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### TECHNICAL DATA

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**Medium Power Busbar Trunking Systems**

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**Vertical and Horizontal Busbar Applications**

**Horizontal Dilatation Module Applications**

- All dimensions are given in mm. The dimensions given above are minimum values.

- Horizontal dilatation is used when the busbar run crosses to an adjacent building.

- Besides, the horizontal busbar run must be used at every 40 meters.
Installation Instructions

1. Attach the joint cover to the busbar, making sure it fits into the housing.
2. Attach the joint block to the busbar and fix it to the other housing.
3. Tighten the shear bolt until the head shears off.
4. Before closing the joint cover, check to see if the insulators are cracked/broken. If not, attach the joint cover.
5. For the joint block, torque value is 55 Nm (40 lbft).

Plastic Tap-Off Unit Installation

1. While installing the tap-off unit, pay attention to the offset on the bottom opening of the tap-off unit.
2. Uncover the socket.
3. Uncover the tap-off unit, place it on the busbar and align these two.
4. Push the tap-off unit until it fits into the housing on the busbar. Make sure that it fits into the housing on the busbar.
5. Cover the tap-off unit. Thanks to the cover equipped with a special mechanism, the system is powered up once the tap-off unit is covered.

JOINT BLOCK TORQUE VALUE: 40 lbft (55 Nm)
Metal Tap-Off Unit Installation

1. While installing the tap-off unit, pay attention to the offset on the bottom opening of the tap-off unit.

2. After attaching the tap-off unit to the busbar, tighten the clamps at the bottom of the unit.

3. After attaching the tap-off unit to the busbar, tighten the clamps at the top of the unit.

4. Then, ensure that the bottom clamps are fastened properly on the busbar.

5. Turn on the tap-off unit by means of the special mechanism. Cover the tap-off unit when the mechanism is OFF and power up when it is ON.

NOTE: For safety reasons, when the mechanism is ON, the tap-off unit cannot be uncovered.
EC DECLARATION OF CONFORMITY

Product Group  MP-H Busbar Power Distribution Systems
Manufacturer  DTM Elektroteknik San. ve Tic. A.Ş.
Çatalmeşe mah. Sultansuyu cad. No: 129
34794 Çekmeköy / İstanbul

We hereby confirm that the above-stated product/product group manufactured in DTM's Plants is in conformity with the following standards and directives.

Standard  TS EN 61439-6
Low-voltage switchgear and control gear assemblies
Part 2: Busbar trunking systems (busways)


Date  15.01.2015

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