BUSBAR TRUNKING SYSTEMS
SP-H SERIES
100A-160A
www.dtmbusbar.com
The smartest way of power distribution
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General Features

DTM's SP-H 100A -160A Busbar Trunking System is used as a power distribution line to meet power distribution requirements. The enclosure is made of galvanized sheet and RAL 7038 is used as the standard color.

Block System

The pluggable screw system allows for quick and safe installation. Nuts are used for tightening the screws.

JOINT BLOCK TORQUE VALUE: (20 Nm)

Flameproof Tap-Off Units

The housing of the tap-off units is made of flameproof V0-(v2) plastic material. They are resistant to adverse ambient conditions and high temperatures. It is possible to receive current up to 80 A using the tap-off units. Tap-off units are installed easily and safely without need for any skilled person.

Order Code System

Busbar Type
Conductor Type
Busbar Code
Degree of Protection
Number of Conductors
Type P-Plug-in/F-Feeder
Module Name

Feeder Busbar
Plug-In Busbar
Horizontal Elbow Vertical Elbow
Feeder Optional Length
Plug-In Optional Length
Tap-Off Unit Plastic
Top Feed Module
End Feed Module
Centre Feed Module
Ranged End
Dilatation Module
Hanger Kit
Centre Feed Module Left

SP-H AL
ALUMINUM AL
(CU) COPPER (CU)

SP-H AL
SP-H CU
100 10 100 11
160 16 160 17

Degree of Protection
IP 5

Number of Conductors

Type
Information about the Busbar's Intended Use

(P) PLUG-IN
USED FOR RECEIVING CURRENT FROM PLUG-IN POINTS IN STRAIGHT LENGTHS.

(F) FEEDER
USED IN DIRECT SUPPLY POINTS.
### TECHNICAL TABLE (SP-H AL)

**ALUMINUM CONDUCTOR (AL)**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Current (In A)</td>
<td>100 160</td>
</tr>
<tr>
<td>Busbar Code</td>
<td>SP-HA10 SP-HA16</td>
</tr>
<tr>
<td>Degree of Protection</td>
<td>IP55</td>
</tr>
<tr>
<td>Standards</td>
<td>IEC 61439-6 TS EN 61439-6 IEC 61439-1 IEC 61439-1</td>
</tr>
<tr>
<td>Max. Rated Operational Voltage (Ue Vac)</td>
<td>690 690</td>
</tr>
<tr>
<td>Rated Frequency (f Hz)</td>
<td>50 50</td>
</tr>
<tr>
<td>Rated Insulation Voltage (Ui V)</td>
<td>690 690</td>
</tr>
<tr>
<td>Mechanical Impact Resistance (IK Code)</td>
<td>Plug-in Busbar IK07</td>
</tr>
<tr>
<td>Measures for the Protection of Humans</td>
<td>Basic Protection (HD 60364-4-41, Article A1)</td>
</tr>
<tr>
<td>Rated Short-Time Current (Icw kA)</td>
<td>3.7 6.5</td>
</tr>
<tr>
<td>Rated Peak Withstand Current (Ipk kA)</td>
<td>5.3 10.3</td>
</tr>
<tr>
<td>Rated Short-Time Current for Neutral Conductor (Icw kA)</td>
<td>2.2 3.7</td>
</tr>
<tr>
<td>Rated Peak Withstand Current for Neutral Conductor (Ipk kA)</td>
<td>3.25 5.5</td>
</tr>
<tr>
<td>Rated Short-Time Current for Protective Circuit (Icw kA)</td>
<td>2.2 3.75</td>
</tr>
<tr>
<td>Rated Peak Withstand Current for Protective Circuit (Ipk kA)</td>
<td>3.25 5.5</td>
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### TECHNICAL TABLE (SP-H CU)

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<tr>
<td>Busbar Code</td>
<td>SP-HC11 SP-HC17</td>
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<tr>
<td>Degree of Protection</td>
<td>IP55</td>
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SAMPLE ORDER

160 A Aluminum, Plug-In IP 55 5 Conductor

**SP-HA16ST2PS**

100 A Aluminum, Feeder IP 55 5 Conductor

**SP-HA10ST2FS**
Optional Length

**Plug-In Busbar Optional Length PX**

**SAMPLE ORDER**
100 A Aluminum, Plug-In Optional Length IP 55 5 Conductor

**SP-HA105T2PX**

**Feeder Busbar Optional Length FX**

**SAMPLE ORDER**
160 A Aluminum, Feeder Optional Length IP 55 5 Conductor

**SP-HA165T2FX**

Elbow Modules

**Horizontal Elbow Module YD**

**SAMPLE ORDER**
100 A Aluminum, Horizontal Elbow IP 55 5 Conductor

**SP-HA105T2YD**

**Vertical Elbow Module DD**

**SAMPLE ORDER**
160 A Aluminum, Vertical Elbow IP 55 5 Conductor

**SP-HA165T2DD**
**Dilatation Module**

**SAMPLE ORDER**

160 A Aluminum, Dilatation IP 55 5 Conductor  
**SP-HA165T2D**

Flanged End 5

**SAMPLE ORDER**

100 A Aluminum, Flanged End IP 55 5 Conductor  
**SP-HA105T2S**

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**Tap-Off Unit Plastic**

**SAMPLE ORDER**

16 A Aluminum, Tap-Off Unit Empty IP 55 5 Conductor  
**SPHA1655B2**

**SAMPLE ORDER**

160 A Aluminum, Feed Module IP 55 5 Conductor  
**SPHA165T2BM**

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**Feed Module**

**SAMPLE ORDER**

160 A Aluminum, Feed Module IP 55 5 Conductor  
**SP-HA165T2BM**

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**CABLE GLAND PLATES**  

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<thead>
<tr>
<th>AMR.</th>
<th>CABLE GLAND TYPE</th>
<th>CODE</th>
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</thead>
<tbody>
<tr>
<td>100</td>
<td>PG21</td>
<td>BR1</td>
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<tr>
<td>160</td>
<td>PG36</td>
<td>BR2</td>
</tr>
</tbody>
</table>
SP-H

Low Power Busbar Trunking Systems

Feeder Modules

End Feed Module
- Sample Order
  - 160 A Aluminum, Feed Module IP 55 5 Conductor
    - SP-HA165T2SM

Centre Feed Module
- Sample Order
  - 100 A Aluminum, Centre Feed IP 55 5 Conductor
    - SP-HA105T2BL

Hanger A
- Sample Order
  - 100 A Aluminum, Hanger Kit IP 55 5 Conductor
    - SP-HA105T2A

Cable Gland Plates

<table>
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<td>160</td>
<td>PG36</td>
<td>BR2</td>
</tr>
</tbody>
</table>

Fittings

<table>
<thead>
<tr>
<th>Description</th>
<th>W (mm)</th>
<th>Code</th>
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<tbody>
<tr>
<td>B-E 8 Rod Hanger (MB)</td>
<td>500</td>
<td>T101</td>
</tr>
<tr>
<td>B-E 8 Rod Hanger (MB)</td>
<td>1000</td>
<td>T102</td>
</tr>
<tr>
<td>(MB) Extension Member</td>
<td>-</td>
<td>T103</td>
</tr>
<tr>
<td>M 8 Draw-In Anchor</td>
<td>-</td>
<td>T104</td>
</tr>
<tr>
<td>M 8 Steel Nut</td>
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<td>T105</td>
</tr>
</tbody>
</table>

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### Busbar Technical Data

<table>
<thead>
<tr>
<th>ALUMINUM BUSBAR DIMENSIONS AND WEIGHTS</th>
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<tbody>
<tr>
<td>AMPERE RATING</td>
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<tr>
<td>100A</td>
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<td>160A</td>
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<table>
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<th>COPPER BUSBAR DIMENSIONS AND WEIGHTS</th>
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<td></td>
</tr>
<tr>
<td>160A</td>
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<tr>
<td></td>
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### 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. Before closing the joint cover, check to see if the insulators are cracked/broken. If not, attach the joint cover.

4. For the joint block, torque value is 20Nm.
EC DECLARATION OF CONFORMITY

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

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)

designed for use within certain voltage limits”

Date  15.01.2015

DTM Elektroteknik San. Tic. A.Ş.
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Phone: +90(216) 429 51 74 • www.dtmbusbar.com
<table>
<thead>
<tr>
<th>CATALOG NO</th>
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<th>PCS.</th>
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Elektroteknik A.Ş

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