INVERTER

Phase detection transformer box <FR-A8VPB-H>

Thank you for choosing this Mitsubishi Electric inverter option. This product is a phase detection transformer box specifically made for the FR-A800/F800 series 400 V class inverters. To wire and set up this product, refer to either of the two Instruction Manuals of the plug-in option FR-A8AVP (Inverter/Converter Switching Function / Phase-Synchronized Bypass Switching Function) according to the application purpose.

Incorrect handling might cause an unexpected fault. Before using this product, always read this Instruction Manual carefully to ensure proper use. Please forward this Instruction Manual to the end user.

Safety instructions

Do not attempt to install, operate, maintain or inspect this product until you have read through this Instruction Manual, the Instruction Manual of the FR-A8AVP, and supplementary documents carefully and can use the equipment correctly. Do not use this product until you have a full knowledge of this product mechanism, safety information and instructions.

Installation, operation, maintenance and inspection must be performed by qualified personnel. Here, qualified personnel means personnel who meets all the following conditions.

- A person who took a proper engineering training.
- Such training may be available at your local Mitsubishi Electric office. Contact your local sales office for schedules and locations.
- A person who can access operating manuals for the protective devices (e.g. light curtain) connected to the safety control system. A person who has read and familiarized himself with the manuals.

In this Instruction Manual, the safety instruction levels are classified into "WARNING" and "CAUTION".

Incorrect handling may cause hazardous conditions, resulting in death or severe injury.

Incorrect handling may cause hazardous conditions, resulting in medium or slight injury, or may cause material damage.

Note that even the "CAUTION" level may lead to a serious consequence depending on conditions. Be sure to follow the instructions of both levels as they are critical to personal safety.

Electric shock prevention

- Do not remove the front cover while the power is ON and the power terminals and charging part are exposed. You may get an electric shock due to the fact that high voltage terminals and charging part are exposed.
- Any person who is involved in wiring or inspection of this product shall be fully competent to do the work.

WARNING

- Do not touch this product with wet hands. Doing so may cause an electric shock.
- Do not subject the cables to scratches, excessive stress, heavy loads or pinching. Doing so may cause an electric shock.

Fire prevention

CAUTION

- This product must be installed on a nonflammable wall without any through holes. Installing it to or near flammable material may cause a fire.

Injury prevention

CAUTION

- The cables must be connected to the correct terminals. Otherwise burst, damage, etc. may occur.
- Do not stack boxes containing this product higher than 1.4 m. Otherwise items may fall and cause injuries.
- Do not subject the cables to scratches, excessive stress, heavy loads or pinching. Doing so may cause an electric shock.

Additional instructions

The following instructions must be also followed. If this product is handled incorrectly, it may cause unexpected fault, an injury, or an electric shock.

Transportation and installation

- This product must be transported in correct method that corresponds to the weight. Failure to do so may lead to injuries.
- Do not stand or place heavy objects on this product.
- Do not stack boxes containing this product higher than the number recommended.
- When carrying the product, do not hold by the front cover. Doing so may cause a fall or failure of this product.
- The installation orientation of this product must be correct.
- Do not install or operate this product if it is damaged or has parts missing.
- Prevent conductive items such as screws and metal fragments, or flammable substances such as oil from entering this product.
- If the product is a precision instrument, do not drop or subject it to impact.
- The surrounding air temperature must be between -10°C and +50°C (non-freezing) for this product. Otherwise the product may be damaged.
- The ambient humidity must be 85% RH or less (non-condensing) for this product. Otherwise the product may be damaged.
- The temporary storage temperature (applicable to a short limited time such as a transportation time) must be between -20°C and +65°C. Otherwise this product may be damaged.
- This product must be used indoors (without corrosive gas, flammable gas, oil mist, dust and dirt). Otherwise this product may be damaged.
- This product must be used at an altitude of 2500 m or less, within 5.9 m/s or less vibration at 10 to 55 Hz, within 5.5 m/s² or less vibration at 10 to 55 Hz (directions of X, Y, Z axes). Otherwise the product may be damaged.

Usage

- Do not modify this product.
- Do not remove any part which is not instructed to be removed in the Instruction Manuals. Doing so may lead to a failure or damage of this product.

WARNING

Disposal

- This product must be treated as industrial waste.
Restricted Use of Hazardous Substances in Electronic and Electrical Products

The mark of restricted use of hazardous substances in electronic and electrical products is applied to the product as follows based on the "Management Methods for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products" of the People's Republic of China.

电器电子产品有害物质限制使用标识要求

本产品中所含有害物质的名称、含量、含有部位如下表所示。

<table>
<thead>
<tr>
<th>部件名称</th>
<th>铅 (Pb)</th>
<th>汞 (Hg)</th>
<th>镉 (Cd)</th>
<th>六价铬 (Cr(VI))</th>
<th>多溴联苯 (PBB)</th>
<th>多溴二苯醚 (PBDE)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>×</td>
<td>×</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
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<td>×</td>
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<td>×</td>
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<td>×</td>
</tr>
<tr>
<td>螺丝、电线</td>
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<td>×</td>
<td>×</td>
<td>×</td>
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<td>×</td>
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</tbody>
</table>

Referenced Standard
(Requirement of Chinese standardized law)

This Product is designed and manufactured accordance with following Chinese standards.

Electrical safety: GB12668.501