General Specifications

Model ACUKT2
Cabinet Utility Kit
(for CENTUM-XL, AFV30□)

GS 33J60K21-01EN

[Release 6]

GENERAL
The ACUKT2 Cabinet Utility Kit is used to install in high density a Field Control Unit (AFV30□), ESB Bus Node Unit (ANB10□), Optical ESB Bus Node Unit (ANB11□), and Unit for Optical ESB Bus Repeater Module (ANT10U) in the existing CENTUM-XL Cabinet. Temperatures and fans in the cabinet can be monitored on HIS by connecting to the HK bus.

STANDARD SPECIFICATIONS

• Kit Components
  Power Distribution Board with Built-in HKU
  Power Supply for HKU and Fan: 2 power supplies
  Cables
  Power Supply Bus Unit, Vertical Type
  (specify with option code)
  Node Fan Unit (specify with option code)

• Units that can be Installed in Cabinet (order separately)
  Field Control Unit: AFV30□
  ESB Bus Node Unit: ANB10□
  Optical ESB Bus Node Unit: ANB11□
  Unit for Optical ESB Bus Repeater Module: ANT10U

• Applicable Cabinet
  CENTUM-XL: EFCS, EFCD, EMCS, EMCD, EFMS

• Number of Units that can be Installed in Cabinet
  Maximum number of installable units is 6 at the front side
  Maximum number of AFV30□ is 1

• Status Contact Output
  When AFV30□ is installed:
  FCU fault conact is output
  When AFV30□ is not installed:
    A fan, fan power supply, PS4□ or cabinet temperature fault contact is output
  Contact Rating:
    Rated voltage: 250 V AC/30 V DC or less
    Rated current: 2 A
    Rated power: 125 VA or less

• Power Supply
  Voltage: 100-120 V AC, Frequency: 50/60 Hz
  Voltage: 220-240 V AC, Frequency: 50/60 Hz
  Voltage: 24 V DC
  Specify with suffix code

• Power Consumption
  100-120 V AC:
    2200 VA (When the maximum number of EFCD is installed)
    100 VA (Only for ACUKT2) 220-240 V AC:
    2600 VA (When the maximum number of nodes is installed)
    100 VA (Only for ACUKT2) 24 V DC:
    62 A (When the maximum number of nodes is installed)
    5 A (Only for ACUKT2)

• Connection
  Power Supply: M6 screw terminal connection
  (Power can be received from two power sources)
  Contact Output: M4 screw terminal connection

• Weight
  Approx. 21 kg (Total weight of the kit components)
UNIT INSTALLATION EXAMPLE

Figure Example of Installing AFV30D, ANB10D, and ACUKT2 in CENTUM-XL Cabinet

HK BUS CONNECTION EXAMPLE

To connect the HK bus between cabinets, use the existing KHK cable or a new AKBHKU cable. To connect the HK bus between cabinets, which are installed at a distance from each other, specify “ANB11□/BU□□” and “ACUKT2-R.”
EXTERNAL DIMENSIONS

- Node Fan Unit

Nominal Tolerances:
When the reference dimension is over 0.5 mm and equal or less than 120 mm, its nominal tolerance is ±0.8 mm, while its combination of nominal tolerance is ±1.5 mm.
When the reference dimension is over 120 mm, its nominal tolerance is in accordance with JEM 1459.
**Fan Unit (for ANFAN)**

Unit: mm

Nominal Tolerances:
- When the reference dimension is over 0.5 mm and equal or less than 120 mm, its nominal tolerance is ± 0.8 mm, while its combination of nominal tolerance is ± 1.5 mm.
- When the reference dimension is over 120 mm, its nominal tolerance is in accordance with JEM 1459.
● Power Distribution Board with Built-in HKU

Nominal Tolerances:
When the reference dimension is over 0.5 mm and equal or less than 120 mm, its nominal tolerance is ± 0.8 mm, while its combination of nominal tolerance is ± 1.5 mm.
When the reference dimension is over 120 mm, its nominal tolerance is in accordance with JEM 1459.
• Power Supply Bus Unit, Vertical Type (for Cabinet Mounting)

In the case of 100-120 V AC and 220-240 V AC

In the case of 24 V DC

Nominal Tolerances:
When the reference dimension is over 0.5 mm and equal or less than 120 mm, its nominal tolerance is ± 0.8 mm, while its combination of nominal tolerance is ± 1.5 mm.
When the reference dimension is over 120 mm, its nominal tolerance is in accordance with JEM 1459.
MODELS AND SUFFIX CODES

Cabinet Utility Kit (for CENTUM-XL, AFV30□)

<table>
<thead>
<tr>
<th>Suffix Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-C</td>
<td>For CPU node (for AFV30□/HKU)</td>
</tr>
<tr>
<td>-L</td>
<td>For ESB Bus Node (for ANB10□) (*1)</td>
</tr>
<tr>
<td>-R</td>
<td>For Optical ESB Bus Node (for ANB11□) (*1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ACUKT2</td>
<td>Cabinet Utility Kit (for CENTUM-XL, AFV30□)</td>
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</tbody>
</table>

Option Codes

<table>
<thead>
<tr>
<th>Option Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/NFAN1</td>
<td>Node fan 1 (for upper of front side) (*2) [Model: ANFAN-1]</td>
</tr>
<tr>
<td>/NFAN2</td>
<td>Node fan 2 (for lower of front side) (*2) [Model: ANFAN-2]</td>
</tr>
<tr>
<td>/AEP</td>
<td>Power supply bus unit, vertical type [Model: AEPVTD]</td>
</tr>
</tbody>
</table>

Note: When the field control unit (AFV30□) is to be used in combination with this kit, specify the option code “HKU” when ordering AFV30□.

*1: Be sure to use the HK Bus Cable (KHK or AKBHKU) if communication with the HK unit is to be performed between cabinets.

*2: Specify node fan units (“/NFAN”) according to the number of node units (ANB10□ or ANB11□ or ANT10U) and CPU node to be mounted on the front and rear sides of the cabinet.

<Front side>
In the case of one CPU node and node units:
One CPU node + 0 to 4 node units: /NFAN1
One CPU node + 5 node units: /NFAN1/NFAN2
In the case of no CPU node:
0 to 4 node units: No node fan unit is required
5 node units: /NFAN1
6 node units: /NFAN1/NFAN2

MODELS AND SUFFIX CORDS OF RELATED PRODUCTS

The following related products are included in the ACUKT2. Order any new products that will be required when performing additional installation or maintenance work.

Node fan unit

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ANFAN</td>
<td>Node fan unit</td>
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</table>

<table>
<thead>
<tr>
<th>Suffix Codes</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1</td>
<td>Node fan 1 (for upper of front side, power supply cable 2.1 m)</td>
</tr>
<tr>
<td>-2</td>
<td>Node fan 2 (for lower of front side, power supply cable 1.6 m)</td>
</tr>
</tbody>
</table>

Fan Unit (for ANFAN)

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIP611</td>
<td>Fan Unit (for ANFAN)</td>
</tr>
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</table>

APPLICABLE STANDARDS

Refer to the GS “Integrated Production Control System CENTUM VP System Overview” (GS 33J01A10-01EN).

ORDERING INFORMATION

Specify models and suffix codes when ordering.

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