

# SINAMICS S120 Chassis Format Converter Units

## Supplementary system components

### Safe Brake Adapter SBA

#### Overview



For SINAMICS S120, S150, G130 and G150 units, a Safe Brake Adapter SBA is required to safely control a motor holding brake via the Safe Brake Control (SBC) safety function according to IEC 61800-5-2.

The Safe Brake Adapter is available for a 230 V AC brake control voltage.

It can be ordered as supplementary component for SINAMICS S120 chassis format units as well as for SINAMICS G130 built-in units.

It is available as option (**K88**) for SINAMICS S120 Cabinet Modules and SINAMICS S150 or G150 cabinet units.

#### Note:

The SBA is approved for the IEC area. Safe Brake Adapter with UL approval are available on request. The UL approval is valid for a maximum permissible current consumption of 1.5 A (inductive).

#### Design

The Safe Brake Adapter SBA has the following connections and interfaces:

- 1 connection for the connecting cable to the Power Module/ Motor Module
- 1 connection for the external 230 V AC supply
- 1 connection for motor holding brake
- 1 connection for fast de-excitation

#### Selection and ordering data

Description	Article No.
<b>Safe Brake Adapter</b> 230 V AC/2 A	<b>6SL3355-2DX00-1AA0</b>
<b>Accessories</b>	
<b>Pre-assembled interface cable to connect the SBA to the electronics module (4 m)</b>	<b>6SL3060-4DX04-0AA0</b>

#### Technical specifications

<b>Safe Brake Adapter</b> 6SL3355-2DX00-1AA0	
<b>Electronics power supply</b>	
• Supply voltage (via the Control Interface Module)	24 V DC (20.4 ... 28.8 V DC)
<b>Supply voltage of the motor holding brake</b>	230 V AC
<b>Current consumption, max perm. <sup>1)</sup></b>	
• Motor holding brake	2 A
• Fast de-energization	2 A
<b>Cable length, max.</b>	
• To the Control Interface Module	10 m
• To the brake	300 m
<b>Conductor cross-section</b>	2.5 mm <sup>2</sup>
<b>Dimensions</b>	
• Width	75 mm
• Height	111 mm
• Depth	89 mm
<b>Weight, approx.</b>	0.25 kg
<b>Safety Integrated</b>	Safety Integrity Level 2 (SIL2) acc. to IEC 61508, Performance Level d (PLd) acc. to EN ISO 13849-1 and Control Category 3 acc. to EN ISO 13849-1

<sup>1)</sup> The UL approval is valid for a maximum permissible current consumption of 1.5 A (inductive).