

MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6SL3100-1BE21-3AA0

HFD DAMPING RESISTOR

Used with the applicable SIMODRIVE 611 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Official Siemens technical documentation for 6SL3100-1BE21-3AA0

6.5 HFD reactor

Damping resistor

Together with the HFD reactor, an external resistor must be used for damping purposes (refer to Fig. 6-14).

Table 6-15 Technical specifications

	Pulsed resistor 0.3/25 kW¹⁾	HFD damping resistor²⁾	Pulsed resistor Plus 1.5/25 kW³⁾
Order No.	6SN1113-1AA00-0DA□	6SL3100-1BE21-3AA□	6SL3100-1BE22-5AA□
Rated power (kW)	0.3	0.8	1.5
Special low-inductance resistor	0...230 kHz ≤ 3 dB		
including the connecting cable [m]	3	5	5
Connection	3 x 1.5 mm ²	4 x 1.5 mm ²	4 x 2.5 mm ²
Weight [kg]	1.45	5.5	5.6
Degree of protection acc. to DIN EN 60529 (IEC 60529)	IP 54	IP51	IP20
UL file	E-228809	E-212934	E-192450
Ambient temperature [°C]	0...55		
Dimensions (W x H x D) [mm]	80 x 210 x 53	277 x 552 x 75	193 x 410 x 240

- 1) The 300 W resistance can be used for HFD applications if the following is true after a warm-up run when all axes are shut down in a regulated way:
- After an operating period of over two hours, no temperature in excess of 150 °C may occur on the surface of the 6SN1113-1AA00-0DA0 resistor.
 - This warm-up run must be repeated if the hardware configuration, e.g. motor cable lengths, is changed!
- 2) Preferred type
3) Alternative possible

Note

Preferably, the HFD damping resistor (6SL3100-1BE21-3AA0) should be used. It must not be connected as an external pulsed resistor on the pulsed resistor module or UI module!

The HFD damping resistor can become very hot. Consequently, it must be installed so that it cannot be touched or placed at an endangered position with an appropriate warning notice.

**Danger**

During operation and briefly after being switched off, the surfaces can reach temperatures that can cause burns and results in fires

**Reader's note**

For mounting information and instructions for external HFD resistors, refer to Fig. 6-14 and Chapter 6.7.4.

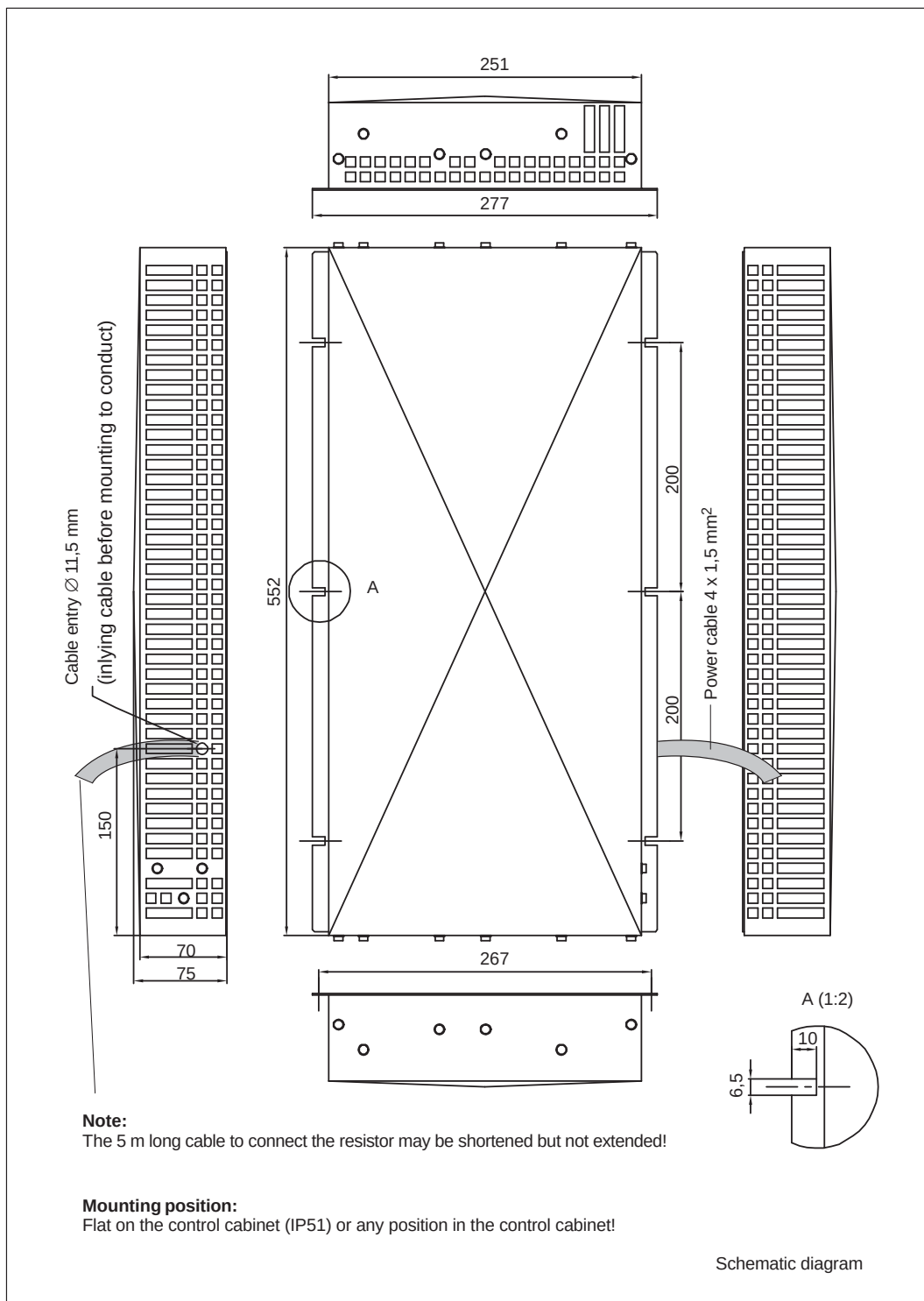


Fig. 12-58 Damping resistor for 3-phase HFD line/commutating reactors, 6SL3100-1BE21-3AA0