

6SN1145-1BA00-0BA0

Industrial automation components

Manufacturer	Siemens
Catalog number	6sn1145-1ba00-0ba0
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Weight	9.98 kgs
Product Type	Infeed/Regenerative Feedback Module
Power Rating	16/21 kW
Supply Voltage Compatibility	3-phase 400 V AC $\pm 10\%$, 415 V AC $\pm 10\%$, 480 V AC $+6\%/-10\%$
Cooling Options	Internal cooling with heatsinks; External cooling with heatsinks inserted through openings at the rear of the cabinet
Installation Requirements	50 mm lateral clearance between module groups; Externally mounted fans and air baffle plates for efficient cooling

Description

The Siemens 6SN1145-1BA00-0BA0 is an infeed/regenerative feedback module from the SIMODRIVE 611 series, designed for integration into high-performance CNC machine systems. This module serves a crucial role in connecting the drive group to the line supply and generating the necessary DC voltage for the DC link. With a power rating of 16/21 kW, it is equipped to handle demanding tasks and provides regulated power for various operational requirements. The module is compatible with different line supply voltages, including 3-phase 400 V AC $\pm 10\%$ at 50 Hz/60 Hz, 3-phase 415 V AC $\pm 10\%$ at 50/60 Hz, and 3-phase 480 V AC with a range of +6% to -10% at 50 Hz/60 Hz. In cases where the infeed modules are connected to non-standard or unconventional line supplies, specific considerations are necessary. An additional transformer with separate windings in vector group yn is required, particularly when dealing with upstream transformers or alternative line supply voltages such as 3-phase 200 V/220 V/240 V/440 V/500 V/575 V AC $\pm 10\%$ at 50 Hz/60 Hz. The 6SN1145-1BA00-0BA0 module incorporates advanced cooling mechanisms to ensure optimal performance and prevent overheating. Two cooling options are available: internal cooling with heatsinks facilitating cooling within the control cabinet, and external cooling with heatsinks inserted through openings at the rear of the cabinet, managed on the customer's side. Proper module arrangement and installation are crucial for maintaining safe and efficient operation. Between module groups mounted at the same height, a minimum lateral clearance of 50 mm must be maintained. To guide air efficiently over the module heat sinks, externally mounted fans and air baffle plates can be added, especially for modules with a width of 100 mm. Other module widths may require custom baffle plates based on the provided dimensions. The Siemens 6SN1145-1BA00-0BA0 infeed/regen feedback module stands as a reliable and robust component within the SIMODRIVE 611 system. With its capacity to generate regulated power from various line supply voltages and its advanced cooling options, the module ensures the stability and efficiency necessary for demanding industrial applications. Its integration capabilities and versatile cooling solutions make it valuable in optimizing processes and enhancing operational reliability across various industries.