

ALLEN-BRADLEY KINETIX 5700

2198-P208

85 mm DC-bus supply for a shared-bus motion system

Product data

Manufacturer	Allen-Bradley
Catalog number	2198-P208
Product family	Kinetix 5700
Product type	DC Bus Supply
Input supply	195...528 V rms three-phase; 240/480 V nominal; 47...63 Hz
Continuous DC-bus current	69.2 A DC
Peak DC-bus current	207.6 A DC for up to 0.1 second; 10% duty cycle
Continuous output power	23.0 kW at 240 V; 46.0 kW at 480 V
Module width	85 mm
Dimensions (W × H × D)	8.5 × 43.3 × 25.2 cm
Approximate weight	7.04 kg
Lifecycle	Active

Configuration and replacement checks

Control power	24 V DC $\pm 10\%$
Nominal DC-bus range	276...747 V DC
Internal capacitance	2050 μF
Capacitive energy absorption	453 J
Efficiency	99%
Short-circuit rating	200,000 A rms symmetrical

Selection checkpoints

- Use LPJ-100SP branch protection and verify the 100-C97DJ10 contactor arrangement for the installed circuit.
- Use the documented 1321-3R80-B reactor arrangement and select the line-filter configuration for one, two, or three parallel supplies.
- Validate parallel-supply balancing, total connected bus capacitance, regenerative energy, grounding, cooling, and controller firmware.