

ALLEN-BRADLEY KINETIX 5700

2198-D006-ERS3

Dual Axis Inverter with ERS3 integrated safety

Verified product data

Manufacturer	Allen-Bradley
Catalog number	2198-D006-ERS3
Product family	Kinetix 5700
Product type	Kinetix 5700 Dual Axis Inverter
Axis configuration	Two independently configured inverter axes
DC input range	276...747 V DC
Continuous output	2 × 2.5 A rms (2.5 A rms per axis)
Peak output	2 × 6.3 A rms for up to 1.0 second
Nominal power	2 × 0.9 kW at 240 V rms three-phase; 2 × 1.7 kW at 480 V rms three-phase
DC input current	2.7 A DC
Network	Integrated Motion over EtherNet/IP
Safety option	ERS3 integrated safety
Lifecycle	Active

Configuration and replacement checks

Dimensions (W × H × D)	5.5 × 35.8 × 25.2 cm
Weight	4.16 kg
Internal capacitance	165 µF
PWM frequency	4 kHz
Velocity-loop bandwidth	400 Hz maximum
Current-loop bandwidth	1000 Hz
Protection class	IP20
Operating temperature	0...50 °C
Relative humidity	5...95%, noncondensing
Hardware series	Series A and Series B

Selection checkpoints

- Size and commission the two motor-feedback channels independently while treating the module as one shared DC-bus device.
- Verify the installed hardware Series and compatible firmware before reusing an existing Studio 5000 project.
- Confirm feedback kits, cabling, grounding, cooling, regeneration, and the validated ERS3 safety configuration before commissioning.