

# Catalogue No: 2198-H008-ERS

## KINETIX 5500 SERVO DRIVE 240/480V 1/3PH 3.5A

Automation Systems > Motion Systems > Servo Drives > Allen-Bradley Kinetix 5500 Servo Drives > Kinetix® 5500 Drives > Kinetix® 5500 Drives



Representative Photo Only  
(actual product may vary based on configuration selections)

### Kinetix 5500 Drives A peak output, 1/3 phase 190-528V AC Input With Hardwired Safety

- Smaller footprint with optimised power density ideal for use when control panel space is an issue
- Single cable solution including feedback, motor brake and motor power equipped with quick, one turn connectors, simplifies wiring and lowers installation cost
- Capability to run servo and induction motors all in one drive platform, reduce spare parts by standerdising on a single platform
- Flexible power connectivity provides multiple ways to operate the system, bus connection systems reduce wiring cost and installation time
- Motion control functions are embedded in RSLogix™ 5000 programming and in the Logix controller, reducing the time and money involved in machine building, implementation and maintenance
- Available in hardwired or networked safety options - contact NHP for networked safety options

#### SPECIFICATIONS

|                                             |                                                    |
|---------------------------------------------|----------------------------------------------------|
| Product Series                              | Kinetix 5500 (Bul. 2198)                           |
| Component Type Motion Control               | Servo Drive                                        |
| Safety Performance Level(s) (ISO13849:2006) | ISO 13849:2006 PLd ISO 13849:2006                  |
| Safety Performance Level                    | PLd safety                                         |
| SIL Rating(s) (IEC/EN 61508)                | IEC/EN 61508 SIL2 IEC/EN 61508                     |
| SIL Rating                                  | SIL 2                                              |
| SIL Claim(s) - Machinery (IEC/EN 62061)     | IEC/EN 62061 SILCL2 IEC/EN 62061                   |
| SIL Claim, Machinery                        | SIL CL 2 machinery                                 |
| Safety Category(s) (ISO13849:1999 / EN954)  | EN 954 / ISO 13849:1999 Category 3 ISO 130849:1999 |
| Safety Category                             | Cat 3 safety                                       |
| Integration Type                            | Network Capable                                    |
| Common DC Bus Capable                       | Yes Y / N                                          |
| Communications Protocols                    | EtherNet/IP<br>EtherNet/OCPP                       |
| Input voltage, 1ph, nom (rms)               | 240 V AC nom (rms)                                 |
| Input Voltage, 1ph, min (rms)               | 195 V AC min (rms)                                 |
|                                             | 264 V AC max (rms)                                 |
| Input voltage, 3ph, nom (rms)               | 415 V AC nom (rms)                                 |
| Input Voltage, 3ph, min (rms)               | 324 V AC min (rms)                                 |
| Input Voltage, 3ph, max (rms)               | 528 V AC max (rms)                                 |
| Input Frequency, Nom                        | 50 / 60 Hz                                         |
| Input Frequency, Min                        | 47 Hz                                              |
| Input Frequency, Max                        | 63 Hz                                              |
| Input Current, Single Phase, Nominal        | 1.7 A                                              |
| Input Current, Single Phase, Max (0 - pk)   | 15 A                                               |
| Input Current, Three Phase, Nominal         | 2.6 A                                              |
| Line Loss Ride Through Time                 | 20 ms                                              |

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|                                            |                                                                                                                                                                                                                                                             |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Internal Shunt Power, Continuous           | 30 W                                                                                                                                                                                                                                                        |
| Internal Shunt Power, Peak                 | 30 W                                                                                                                                                                                                                                                        |
| Internal Shunt Resistance                  | 100 Ohms                                                                                                                                                                                                                                                    |
| Velocity Loop Bandwidth                    | 300 Hz                                                                                                                                                                                                                                                      |
| Current Loop Bandwidth                     | 1000 Hz                                                                                                                                                                                                                                                     |
| Output Current, Continuous (rms)           | 2 A, rms, continuous                                                                                                                                                                                                                                        |
| Output Current, Continuous (0-peak)        | 3.5 A, contin, 0-pk                                                                                                                                                                                                                                         |
| Output Current, Peak (rms)                 | 6.25 A, rms, peak                                                                                                                                                                                                                                           |
| Output Current, Peak (0-peak)              | 8.8 A                                                                                                                                                                                                                                                       |
| Efficiency, Electrical, Peak               | 97 >=%                                                                                                                                                                                                                                                      |
| Altitude, Operating (No Derating)          | 1000 m                                                                                                                                                                                                                                                      |
| Frame Size                                 | Frame 1 size                                                                                                                                                                                                                                                |
| Compatible Motor Series'                   | MPF Food Grade compatible<br>MPL Low Inertia<br>MPM Medium Inertia<br>MPS Stainless Steel<br>LDAT Integrated Linear Thruster<br>MPAI Heavy Duty Electric Cylinder<br>MPAR Electric Cylinder<br>MPAS Integrated Linear Stage<br>MPMA Integrated Linear Stage |
| Operating Temperature, Max                 | 50 °C max                                                                                                                                                                                                                                                   |
| Operating Temperature, Min                 | 0 °C min                                                                                                                                                                                                                                                    |
| Storage Temperature, Max                   | 70 °C max                                                                                                                                                                                                                                                   |
| Storage Temperature, Min                   | -40 °C min                                                                                                                                                                                                                                                  |
| Relative Humidity, Min                     | 5 %RH                                                                                                                                                                                                                                                       |
| Relative Humidity, Max                     | 95 %RH                                                                                                                                                                                                                                                      |
| Height                                     | 265 mm                                                                                                                                                                                                                                                      |
| Width                                      | 55 mm                                                                                                                                                                                                                                                       |
| Depth                                      | 210 mm                                                                                                                                                                                                                                                      |
| Weight                                     | 1.4 kg                                                                                                                                                                                                                                                      |
| Shock Acceleration (Max.)                  | 15 g                                                                                                                                                                                                                                                        |
| Shock Duration (Max.)                      | 11 ms                                                                                                                                                                                                                                                       |
| Vibration Acceleration (Max.)              | 2 m/s <sup>2</sup>                                                                                                                                                                                                                                          |
| Vibration Displacement (Peak to Peak Max.) | 0.32 mm                                                                                                                                                                                                                                                     |
| Vibration Frequency, Operational (Max.)    | 500 Hz                                                                                                                                                                                                                                                      |
| Standards Compliance                       | OSHA 3074<br>AS/NZS CISPR 11-Group1-ClassA<br>EN 61800-3<br>EN 61800-5-1<br>EN 61800-5-2<br>UL 508C<br>EN 954 / ISO 13849:1999 Category 3<br>ISO 13849:2006 PLd<br>IEC/EN 61508 SIL2                                                                        |
| Certifications                             | CE<br>C-Tick<br>C-UL<br>KC (KCC)<br>ODVA - EtherNet/IP<br>OSHA<br>UL<br>TUV PLd<br>TUV SIL2<br>TUV Category 3                                                                                                                                               |

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| REFERENCES                                  |                                                                     |
|---------------------------------------------|---------------------------------------------------------------------|
| IECEX Certificate                           | -                                                                   |
| Supplier Declaration of Conformity:         | -                                                                   |
| Installation Guide:                         | <a href="#">Kinetix 5500 Servo Drives_Installation Instructions</a> |
| User Manual:                                | <a href="#">Kinetix 5500_User Manual</a>                            |
| Manufacturer Datasheet:                     | -                                                                   |
| Manufacturer Catalogue & Product Selection: | <a href="#">Kinetix 5500_Manufacturer Product Selection Guide</a>   |