Allen-Bradley Kinetix 5100 Servo Drive & Kinetix TLP Servo Motor

A complete motion control system designed with versatility in mind

THE TOTAL PACKAGE

We designed the Kinetix® 5100 servo drive and Kinetix® TLP servo motor with versatility in mind. Together, this drive and motor system delivers a competitive solution for standalone and simple machines – with just the power you need.

Kinetix 5100 servo drive

Designed for versatility, the Kinetix 5100 servo drives allow you to select the power you need and the ability to apply that to fit the unique needs of the application. With a wider choice of power range than comparable alternatives – up to 15kW – Kinetix 5100 drives support applications as a stand-alone controller or as by Micro 800 or Logix controllers for a range of performance requirements.

Kinetix TLP servo motor

Tested and validated for optimized performance with the Kinetix 5100 servo drives, this motor is available in eight frame sizes and ranges from 50w to 15kW with a variety of options available to your application. Complete the customization of your system with a range motor cables and accessories.

Rockwell Automation

Kinetix 5100 Servo Drive

FEATURES AND BENEFITS

Safety, Simply – Hardwire Safe Torque Off comes standard so you get the safety features you need without any additional parts or labor.

In's and Out's – Features 10 freely assignable digital inputs (2 can be used as Fast Input functions) and 5 freely assignable digital outputs.

Quick Change – Allows for control mode changes (i.e. Speed to Torque) on the fly so the control system can switch modes without stopping the running condition.

Smooth Sailing – Optimized machine performance with less manual tuning effort, reduces vibration without slowing down system response time.

Power Range – Kinetix 5100 servo drives offer a more comprehensive power range than comparable solutions (50W to 2kW at 120V to 230V & 3kW to 15kW at 230V) so you can tailor the power to suit your needs.

More Action, Less Distraction – The indexing and eCAM function provides more motion commands than other products without the need for a separate control system.

Stands Alone, Fits Together – Choose your own control with three options: stand alone control, or connectivity to Micro 800 or Logix controllers. Set-up is simple too, Kinetix 5100 drives easily integrate into Logix applications with specially designed AOI's.

Learn more online

Kinetix TLP Servo Motor & Accessories

FEATURES AND BENEFITS

Size Options – Customize your machine with 8 available frame sizes ranging from 46 to 235 mm.

Resolution – 24-bit high resolution absolute feedback.

Power Range – Rated power ranging from 50 W to 15 kW – a wider range than comparable motors.

Proven Performance, Global Use – The Kinetix TLP servo motor is UL/CSA Recognized and CE marked.

Brake Option – Integral 24V DC brake option for machine customization.

Perfect Fit – Wide selection of cable lengths (up to 50 meters) in both flexible and non-flexible options to meet your unique needs.

Learn more online

System Pairing

Motor Catalog	Drive Catalog	Rated Speed	Max Speed	Continuous Stall Torque Nm	Peak Stall Torque Nm	Rated Output kW
TLP-A046-005	2198-E1004-ERS	3000	6000	0.16	0.447	0.05
TLP-A046-010	2198-E1004-ERS	3000	6000	0.32	1.034	0.10
TLP-A070-020	2198-E1004-ERS	3000	6000	0.64	2.16	0.20
TLP-A070-040	2198-E1004-ERS	3000	6000	1.22	2.91	0.38
	2198-E1007-ERS	3000	6000	1.27	4.275	0.40
TLP-A090-075	2198-E1007-ERS	3000	6000	2.39	7.505	0.75
TLP-A100-100	2198-E1007-ERS	3000	3000	3.18	8.74	1.00
	2198-E1015-ERS	3000	3000	3.18	8.74	1.00
TLP-A115-100	2198-E1015-ERS	3000	5000	3.18	8.455	1.00
TLP-A115-200	2198-E1020-ERS	3000	5000	6.37	17.48	2.00
TLP-A145-050	2198-E1007-ERS	2000	3000	2.39	6.81	0.50
TLP-A145-090	2198-E1015-ERS	1000	2000	8.3	20.52	0.87
	2198-E1020-ERS	1000	2000	8.59	20.52	0.90
TLP-A145-100	2198-E1015-ERS	2000	3000	4.77	13.3	1.00
TLP-A145-150	2198-E1015-ERS	2000	3000	6.22	15.92	1.30
	2198-E1020-ERS	2000	3000	7.16	19.66	1.50
TLP-A200-200	2198-E1020-ERS	2000	3000	9.55	33.66	2.00
TLP-A200-300	2198-E2030-ERS	1500	2500	16.81	45.62	2.64
	2198-E2055-ERS	1500	2500	19.1	47.03	3.00
TLP-A200-350	2198-E2055-ERS	2000	3000	16.71	43.23	3.50
TLP-A200-450	2198-E2055-ERS	1500	3000	28.65	64.04	4.50
TLP-A200-550	2198-E2055-ERS	1500	3000	35.01	67.67	5.50
	2198-E2075-ERS	1500	3000	35.01	79.96	5.50
TLP-A200-750	2198-E2075-ERS	1500	2500	45.36	104.3	7.12
	2198-E2150-ERS	1500	2500	47.74	104.3	7.50
TLP-A235-11K	2198-E2150-ERS	1500	2000	70.0	144.3	11.00
TLP-A235-15K	2198-E2150-ERS	1500	2000	95.4	184.6	15.00

Kinetix 5100 Servo Drive Specifications

Catalog Number	Frame	Voltage Ratings	Power Rating	Continuous Current	Peak Current	Dimensions (W x H x D) mm
2198-E1004-ERS	1	120V / 230V	0.4kW	2.6A	6.5A	35 x 170 x 178
2198-E1007-ERS	2	120V / 230V	0.75kW	5.1A	15.4A	50 x 180 x 158
2198-E1015-ERS	2	120V / 230V	1.5kW	7.9A	23.7A	50 x 180 x 158
2198-E1020-ERS	3	120V / 230V	2.0kW	13.4A	40.5A	95 x 180 x 208
2198-E2030-ERS	3	230V	3.0kW	17.9A	55.9A	95 x 180 x 208
2198-E2055-ERS	5	230V	5.5kW	41.3A	91.4A	120 x 273 x 209
2198-E2075-ERS	6	230V	7.5kW	49.0A	127.4A	141 x 312 x 225
2198-E2150-ERS	7	230V	15.0kW	78.0A	162.0A	186 x 390 x 281

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