Elwood High Performance Motors

SX Series (Hazardous Location Rated Servo Motors) Cross-Reference to Rockwell Automation MPL Series Servo Motors

Please consider the following cross-reference for guidance only. The information below does not consider application specific requirements. Every application and axis should be carefully reviewed by qualified personnel against specifications for performance, reliability, safety, and compliance to applicable laws and regulations.

Mounting dimensions often differ between servo motor series and manufacturers. This cross-reference does not consider mechanical dimensions of the motors. While the cross-referenced motors are similar, physical size and mounting dimensions are likely different and must be considered when using an SX series motor as a replacement for another motor.

In addition to the information below, Elwood's SX Series motors are available for sizing in Rockwell Automation's Motion Analyzer software. Please refer to our website, www.elwood.com/gettys_sx.shtml, or contact Elwood Corporation with any questions.

MPL Model	Rated Speed (RPM)	Continuous Stall Torque (Nm)	Peak Torque (Nm)	Rotor Inertia (kg-m²)	Continuous Stall Current (0-pk)	Motor Rated Power (kW)	Elwood SX Model	Rated Speed (RPM)	Continuous Stall Torque (Nm)	Peak Torque (Nm)	Rotor Inertia (kg-m²)	Continuous Stall Current (0-pk)	Motor Rated Power (kW)
230V Motors													
MPL-A1510V	8000	0.3	0.8	0.000007	1.1	0.16	M431-N	5500	1.2	3.5	0.00007	3.9	0.48
MPL-A1520U	7000	0.5	1.6	0.000013	1.8	0.27	M431-N	5500	1.2	3.5	0.00007	3.9	0.48
MPL-A1530U	7000	0.9	2.8	0.000023	2.8	0.39	M431-N	5500	1.2	3.5	0.00007	3.9	0.48
MPL-A210V	8000	0.6	1.5	0.000015	3.1	0.37	M431-N	5500	1.2	3.5	0.00007	3.9	0.48
MPL-A220T	6000	1.6	4.7	0.000039	4.5	0.62	M432-N	5200	2.4	7.1	0.00012	7.4	0.69
MPL-A230P	5000	2.1	8.2	0.000063	5.4	0.86	M432-N	5200	2.4	7.1	0.00012	7.4	0.69
MPL-A310P	5000	1.6	3.6	0.000044	4.9	0.73	M432-N	5200	2.4	7.1	0.00012	7.4	0.69
MPL-A310F	3000	1.6	3.6	0.000044	3.2	0.46	M432-N	5200	2.4	7.1	0.00012	7.4	0.69
MPL-A320P	5000	3.1	7.9	0.000078	9.0	1.30	M433-M	5000	3.2	9.5	0.00017	10.5	0.96
MPL-A320H	3500	3.1	7.9	0.000078	6.1	1.00	M433-H	3000	3.2	9.5	0.00017	6.4	0.80
MPL-A330P	5000	4.2	11.1	0.000120	12.0	1.80	M443-K	4500	4.7	14.1	0.00051	13.6	1.41
MPL-A420P	5000	4.7	10.2	0.000260	12.7	2.00	M443-K	4500	4.7	14.1	0.00051	13.6	1.41
MPL-A430P	5000	6.0	19.8	0.000380	16.8	2.20	M444-H	3500	6.6	19.8	0.00063	13.2	1.65
MPL-A430H	3500	6.2	19.8	0.000380	12.2	1.80	M444-H	3500	6.6	19.8	0.00063	13.2	1.65
MPL-A4530F	2800	8.4	20.3	0.000400	13.4	1.90	M462-G	3000	10.4	31.1	0.00200	19.0	2.18
MPL-A4530K	4000	8.1	20.3	0.000400	19.5	2.50	M462-G	3000	10.4	31.1	0.00200	19.0	2.18
MPL-A4540C	1500	10.2	27.1	0.000520	9.4	1.50	M462-G	3000	10.4	31.1	0.00200	19.0	2.18
MPL-A4540F	3000	10.2	27.1	0.000520	18.4	2.60	M462-G	3000	10.4	31.1	0.00200	19.0	2.18
MPL-A4560F	3000	14.1	34.4	0.000780	22.0	3.00	M463-K	3500	13.5	40.1	0.00280	36.9	2.52
MPL-A520K	4000	10.7	24.3	0.000783	23.0	3.50	M462-G	3000	10.4	31.1	0.00200	19.0	2.18
MPL-A540K	4000	19.4	48.6	0.001470	41.5	5.50	M465-G	2500	21.1	63.4	0.00440	36.8	3.81
MPL-A560F	3000	26.8	61.0	0.002130	42.0	5.30	M465-G	2500	21.1	63.4	0.00440	36.8	3.81
MPL-A560F	3000	26.8	61.0	0.002130	42.0	5.30	M476-C	1700	31.5	94.5	0.01030	32.7	3.65
460V Motors													
MPL-B1510V	8000	0.3	0.8	0.000007	0.9	0.16	M431-N	5500	1.1	3.3	0.00007	1.8	0.48
MPL-B1520U	7000	0.5	1.6	0.000013	1.8	0.27	M431-N	5500	1.1	3.3	0.00007	1.8	0.48
MPL-B1530U	7000	0.9	2.8	0.000023	2.0	0.39	M431-N	5500	1.1	3.3	0.00007	1.8	0.48
MPL-B210V	8000	0.6	1.5	0.000015	1.8	0.37	M431-N	5500	1.1	3.3	0.00007	1.8	0.48
MPL-B220T	6000	1.6	4.7	0.000039	3.3	0.62	M432-N	5200	2.2	6.6	0.00012	3.5	0.69
MPL-B230P	5000	2.1	8.2	0.000063	2.6	0.86	M432-N	5200	2.2	6.6	0.00012	3.5	0.69
MPL-B310P	5000	1.6	3.6	0.000044	2.4	0.77	M432-N	5200	2.2	6.6	0.00012	3.5	0.69
MPL-B320P	5000	3.1	7.9	0.000078	4.5	1.50	M433-M	5000	3.0	8.9	0.00017	5.1	0.90
MPL-B330P	5000	4.2	11.1	0.000120	6.1	1.80	M443-K	4500	4.4	13.2	0.00051	6.5	1.41
MPL-B420P	5000	4.7	10.2	0.000260	6.4	1.90	M443-K	4500	4.4	13.2	0.00051	6.5	1.41
MPL-B430P	5000	6.6	19.8	0.000380	9.2	2.20	M444-H	3500	6.2	18.6	0.00063	6.2	1.65
MPL-B4530F	3000	8.3	20.3	0.000400	7.0	2.10	M462-G	3000	9.8	29.3	0.00200	8.1	2.18
MPL-B4530K	4000	8.3	20.3	0.000400	11.0	2.60	M462-G	3000	9.8	29.3	0.00200	8.1	2.18
MPL-B4540F	3000	10.2	27.1	0.000520	9.1	2.60	M462-G	3000	9.8	29.3	0.00200	8.1	2.18
MPL-B4560F	3000	14.1	34.4	0.000780	11.8	3.20	M463-K	3500	13.5	40.1	0.00280	16.8	2.52
MPL-B520K	4000	10.7	23.2	0.000783	11.5	3.50	M462-G	3000	9.8	29.3	0.00200	8.1	2.18
MPL-B540D	2000	19.4	41.0	0.001470	10.5	3.40	M465-G	2500	19.9	59.6	0.00440	16.7	3.81
MPL-B540K	4000	19.4	48.6	0.001470	20.5	5.40	M465-G	2500	19.9	59.6	0.00440	16.7	3.81
MPL-B560F	3000	26.8	67.8	0.002130	20.6	5.50	M465-G	2500	19.9	59.6	0.00440	16.7	3.81
MPL-B560F	3000	26.8	67.8	0.002130	20.6	5.50	M476-C	1750	29.6	88.9	0.01030	14.9	3.65
MPL-B580F	3000	34.0	87.0	0.002890	26.0	7.10	M477-C	1500	32.5	97.6	0.01200	16.8	4.82
MPL-B580J	3800	34.0	87.0	0.002890	32.0	7.90	M477-C	1500	32.5	97.6	0.01200	16.8	4.82

Consult Engineering for Larger Motors

Yellow indicates specifications with potential mis-match. Verify these are acceptable.

Elwood High Performance Motors

SX Series (Hazardous Location Rated Servo Motors) Cross-Reference to Rockwell Automation VPL Series Servo Motors

Please consider the following cross-reference for guidance only. The information below does not consider application specific requirements. Every application and axis should be carefully reviewed by qualified personnel against specifications for performance, reliability, safety, and compliance to applicable laws and regulations.

Mounting dimensions often differ between servo motor series and manufacturers. This cross-reference does not consider mechanical dimensions of the motors. While the cross-referenced motors are similar, physical size and mounting dimensions are likely different and must be considered when using an SX series motor as a replacement for another motor.

In addition to the information below, Elwood's SX Series motors are available for sizing in Rockwell Automation's Motion Analyzer software. Please refer to our website, www.elwood.com/gettys_sx.shtml, or contact Elwood Corporation with any questions.

VPL Model	Rated Speed (RPM)	Continuous Stall Torque (Nm)	Peak Torque (Nm)	Rotor Inertia (kg-m²)	Continuous Stall Current (0-pk)	Motor Rated Power (kW)	Elwood SX Model	Rated Speed (RPM)	Continuous Stall Torque (Nm)	Peak Torque (Nm)	Rotor Inertia (kg-m²)	Continuous Stall Current (0-pk)	Motor Rated Power (kW)
230V Motors													
VPL-A0631E	4500	0.5	1.3	0.000009	1.2	0.19	M431-N	5500	1.2	3.5	0.00007	3.9	0.48
VPL-A0631M	7200	0.5	1.3	0.000009	1.9	0.28	M431-N	5500	1.2	3.5	0.00007	3.9	0.48
VPL-A0632F	4800	0.9	2.7	0.000017	2.5	0.39	M431-N	5500	1.2	3.5	0.00007	3.9	0.48
VPL-A0633C	3000	1.3	4.1	0.000025	2.5	0.37	M432-N	5200	2.4	7.1	0.00012	7.4	0.69
VPL-A0633F	4500	1.3	4.1	0.000025	3.5	0.44	M432-N	5200	2.4	7.1	0.00012	7.4	0.69
VPL-A0751E	4800	1.0	2.3	0.000014	2.9	0.50	M431-N	5500	1.2	3.5	0.00007	3.9	0.48
VPL-A0752C	3300	1.6	4.4	0.000025	3.8	0.49	M432-N	5200	2.4	7.1	0.00012	7.4	0.69
VPL-A0752E	4800	1.6	4.4	0.000025	4.9	0.66	M432-N	5200	2.4	7.1	0.00012	7.4	0.69
VPL-0753C	3300	2.2	7.0	0.000037	4.1	0.59	M432-N	5200	2.4	7.1	0.00012	7.4	0.69
VPL-0753E	4600	2.3	7.4	0.000037	6.1	0.80	M432-N	5200	2.4	7.1	0.00012	7.4	0.69
VPL-A1001C	2800	1.9	3.8	0.000044	3.6	0.56	M432-N	5200	2.4	7.1	0.00012	7.4	0.69
VPL-A1001M	6500	2.0	3.8	0.000044	7.2	1.29	M432-N	5200	2.4	7.1	0.00012	7.4	0.69
VPL-A1002C	3000	3.4	7.8	0.000078	6.2	1.03	M442-K	4500	3.5	10.6	0.00041	8.9	1.18
VPL-A1002F	5000	3.3	7.8	0.000078	10.1	1.60	M442-K	4500	3.5	10.6	0.00041	8.9	1.18
VPL-A1003C	2250	4.2	11.2	0.000120	6.1	0.87	M443-E	2500	4.7	14.1	0.00051	6.9	0.94
VPL-A1003E	3750	4.2	11.2	0.000120	9.6	1.31	M443-K	4500	4.7	14.1	0.00051	13.6	1.41
VPL-A1003F	5500	4.2	11.2	0.000120	16.3	1.90	M443-K	4500	4.7	14.1	0.00051	13.6	1.41
VPL-A1152B	2150	5.1	13.1	0.000260	6.2	1.02	M444-E	2500	6.6	19.8	0.00063	9.9	1.31
VPL-A1152E	3300	5.1	13.1	0.000260	10.6	1.47	M444-H	3500	6.6	19.8	0.00063	13.2	1.65
VPL-A1152F	5000	4.7	13.1	0.000260	13.6	2.16	M443-K	4500	4.7	14.1	0.00051	13.6	1.41
VPL-A1153C	2300	6.6	20.3	0.000380	8.9	1.35	M444-E	2500	6.6	19.8	0.00063	9.9	1.31
VPL-A1303B	1950	8.8	20.7	0.000400	10.3	1.61	M462-G	3000	10.4	31.1	0.00200	19.0	2.18
VPL-A1303F	4000	7.8	20.7	0.000400	18.6	2.50	M463-K	3500	13.5	40.1	0.00280	36.9	2.52
VPL-A1304A	1600	10.3	28.5	0.000520	9.4	1.55	M462-C	1750	10.4	31.1	0.00203	8.9	1.25
VPL-A1304D	3000	10.2	27.1	0.000520	18.4	2.60	M462-G	3000	10.4	31.1	0.00200	19.0	2.18
VPL-A1306C	2000	13.4	34.6	0.000780	14.8	2.13	M463-K	3500	13.5	40.1	0.00280	36.9	2.52
460V Motors													
VPL-B0631T	8000	0.5	1.3	0.000009	1.2	0.31	M431-N	5500	1.1	3.3	0.00007	1.8	0.48
VPL-B0631U	8000	0.5	1.3	0.000009	1.9	0.03	M431-N	5500	1.1	3.3	0.00007	1.8	0.48
VPL-B0632F	4600	0.9	2.7	0.000017	1.2	0.37	M431-N	5500	1.1	3.3	0.00007	1.8	0.48
VPL-B0632T	8000	0.9	2.7	0.000017	2.5	0.54	M431-N	5500	1.1	3.3	0.00007	1.8	0.48
VPL-B0633M	6700	1.3	4.1	0.000025	2.5	0.57	M432-N	5200	2.2	6.6	0.00012	3.5	0.69
VPL-B0633T	8000	1.3	4.1	0.000025	3.5	0.57	M432-N	5200	2.2	6.6	0.00012	3.5	0.69
VPL-B0751M	8000	1.0	2.3	0.000014	2.9	0.54	M431-N	5500	1.1	3.3	0.00007	1.8	0.48
VPL-B0752E	4900	1.6	4.4	0.000025	2.7	0.67	M432-N	5200	2.2	6.6	0.00012	3.5	0.69
VPL-B0752F	7000	1.6	4.4	0.000025	3.8	0.80	M433-M	5000	3.0	8.9	0.00017	5.1	0.90
VPL-B0752M	8000	1.6	4.4	0.000025	4.9	0.81	M433-M	5000	3.0	8.9	0.00017	5.1	0.90
VPL-B0753E	4500	2.3	7.4	0.000037	3.8	0.81	M433-M	5000	3.0	8.9	0.00017	5.1	0.90
VPL-B0753F	6600	2.2	7.0	0.000037	4.1	0.65	M433-M	5000	3.0	8.9	0.00017	5.1	0.90
VPL-B0753M	8000	2.3	7.4	0.000037	6.1	0.82	M433-M	5000	3.0	8.9	0.00017	5.1	0.90
VPL-B1001M	6000	1.9	3.8	0.000044	3.6	1.14	M442-K	4500	3.3	9.9	0.00041	4.1	1.11
VPL-B1002E	3300	3.4	7.8	0.000078	3.4	1.12	M443-K	4500	4.4	13.2	0.00051	6.5	1.33
VPL-B1002M	6000	3.4	7.8	0.000078	6.2	1.86	M443-K	4500	4.4	13.2	0.00051	6.5	1.33
VPL-B1003C	2500	4.2	11.2	0.000120	3.4	0.96	M443-K	4500	4.4	13.2	0.00051	6.5	1.33
VPL-B1003F	4750	4.2	11.2	0.000120	6.1	1.65	M443-K	4500	4.4	13.2	0.00051	6.5	1.33
VPL-B1003T	7000	4.2	11.2	0.000120	9.6	1.77	M443-K	4500	4.4	13.2	0.00051	6.5	1.33
VPL-B1152C	2250	5.1	13.1	0.000260	3.1	1.06	M444-E	2500	6.1	18.4	0.00063	4.7	1.22
VPL-B1152F	4500	5.1	13.1	0.000260	6.2	1.40	M444-H	3500	6.1	18.4	0.00063	6.2	1.53
VPL-B1152T	6500	5.1	13.1	0.000260	10.8	2.29	M444-H	3500	6.1	18.4	0.00063	6.2	1.53
VPL-B1153E	3200	6.6	20.3	0.000380	6.1	1.75	M462-G	3000	9.5	28.4	0.00203	8.1	1.98
VPL-B1153F	5000	6.6	20.3	0.000380	8.9	2.30	M462-G	3000	9.5	28.4	0.00203	8.1	1.98
VPL-B1303C	2250	8.8	20.7	0.000400	6.3	1.83	M462-G	3000	9.5	28.4	0.00203	8.1	1.98
VPL-B1303F	4000	8.8	20.7	0.000400	10.1	2.82	M462-G	3000	9.5	28.4	0.00203	8.1	1.98
VPL-B1304C	2150	10.3	28.5	0.000520	7.0	1.75	M463-K	3500	13.5	40.4	0.00282	16.8	2.3
VPL-B1304E	3500	10.3	28.5	0.000520	9.4	2.82	M463-K	3500	13.5	40.4	0.00282	16.8	2.3
VPL-B1306C	2500	13.4	34.6	0.000780	10.8	2.46	M463-K	3500	13.5	40.4	0.00282	16.8	2.3
VPL-B1306F	4250	13.4	34.6	0.000780	14.8	2.95	M463-K	3500	13.5	40.4	0.00282	16.8	2.3
VPL-B1651C	2750	11.5	22.5	0.000783	10.2	2.32	M463-K	3500	13.5	40.4	0.00282	16.8	2.3
VPL-B1651F	4750	11.4	22.5	0.000783	17.6	4.38	M463-K	3500	13.5	40.4	0.00282	16.8	2.3
VPL-B1652C	2700	19.4	48.6	0.001470	16.0	4.18	M465-G	2500	19.2	57.7	0.00440	16.7	3.47
VPL-B1652F	4000	17.6	48.6	0.001470	18.6	4.77	M465-G	2500	19.2	57.7	0.00440	16.7	3.47
VPL-B1653C	2300	25.8	66.7	0.002130	17.8	4.38	M476-C	1700	31.5	94.5	0.01026	14.9	3.65
VPL-B1653D	3000	24.2	67.8	0.002130	18.6	5.50	M476-C	1700	31.5	94.5	0.01026	14.9	3.65
VPL-B1654B	1850	33.0	79.3	0.002890	15.5	5.55	M477-C	1500	35.8	107.3	0.01197	18.5	4.26
VPL-B1654D	3000	32.0	75.3	0.002890	24.5	7.16	M477-C	1500	35.8	107.3	0.01197	18.5	4.26

Consult Engineering for Larger Motors

Yellow indicates specifications with potential mis-match. Verify these are acceptable.