

Specifications



Model		Maximum Output Power HP W	Voltage VAC	Frequency Hz	Speed Range r/min	Permissible Torque oz-in mN·m				Starting Torque oz-in mN·m	Current A	Power Consumption W	
Pinion Shaft	Round Shaft					1200r/min	90r/min	oz-in	mN·m				
Ⓜ ZP	US206-401U	1/125 6	Single-Phase 110	60	90~1600	7.1	50	4.2	30	4.9	35	0.24	24
			Single-Phase 115	60	90~1600	7.1	50	4.2	30	4.9	35	0.25	28
Ⓜ ZP	US206-402E	1/125 6	Single-Phase 220	50	90~1400	7.1	50	4.1	29	4.1	29	0.13	25
			Single-Phase 220	60	90~1600	7.1	50	4.1	29	3.8	27	0.13	27
			Single-Phase 230	50	90~1400	7.1	50	4.1	29	4.1	29	0.13	28
			Single-Phase 230	60	90~1600	7.1	50	4.1	29	4.1	29	0.13	28
Ⓜ TP	US315-401U	1/50 15	Single-Phase 110	60	90~1600	17.7	125	6.3	45	7.8	55	0.47	44
			Single-Phase 115	60	90~1600	17.7	125	6.3	45	7.8	55	0.50	44
Ⓜ TP	US315-402E	1/50 15	Single-Phase 220	50	90~1400	17.7	125	4.9	35	7.6	54	0.21	40
			Single-Phase 220	60	90~1600	12	85	4.9	35	7.3	52	0.18	39
			Single-Phase 230	50	90~1400	17.7	125	4.9	35	7.6	54	0.21	41
			Single-Phase 230	60	90~1600	14.9	105	4.9	35	7.8	55	0.22	44
Ⓜ TP	US425-401U	1/30 25	Single-Phase 110	60	90~1600	28	200	7.1	50	14.9	105	0.74	70
			Single-Phase 115	60	90~1600	28	200	7.1	50	14.9	105	0.74	73
Ⓜ TP	US425-402E	1/30 25	Single-Phase 220	50	90~1400	26	190	6.1	43	12.3	87	0.33	60
			Single-Phase 220	60	90~1600	18.4	130	6.1	43	11.3	80	0.31	59
			Single-Phase 230	50	90~1400	26	190	6.6	47	12.3	87	0.35	62
			Single-Phase 230	60	90~1600	18.4	130	6.1	43	12.3	87	0.31	60
Ⓜ TP	US540-401U	1/19 40	Single-Phase 110	60	90~1600	36	260	9.9	70	25.0	180	1.1	102
			Single-Phase 115	60	90~1600	36	260	9.9	70	25.0	180	1.1	105
Ⓜ TP	US540-402E	1/19 40	Single-Phase 220	50	90~1400	42	300	8.9	63	19.8	140	0.53	90
			Single-Phase 220	60	90~1600	32	230	8.9	63	17.7	125	0.55	98
			Single-Phase 230	50	90~1400	42	300	8.9	63	19.8	140	0.53	90
			Single-Phase 230	60	90~1600	32	230	8.9	63	19.8	140	0.55	100
Ⓜ TP	US560-501U	1/12 60	Single-Phase 110	60	90~1600	69	490	28	200	40	285	2.0	178
			Single-Phase 115	60	90~1600	69	490	28	200	40	285	2.1	186
Ⓜ TP	US560-502E	1/12 60	Single-Phase 220	50	90~1400	69	490	19.8	140	34	240	0.85	154
			Single-Phase 220	60	90~1600	63	450	22	160	29	210	0.86	159
			Single-Phase 230	50	90~1400	69	490	19.8	140	34	240	0.89	154
			Single-Phase 230	60	90~1600	63	450	22	160	34	240	0.88	165
Ⓜ TP	US590-501U	1/8 90	Single-Phase 110	60	90~1600	103	730	28	200	57	405	2.6	230
			Single-Phase 115	60	90~1600	103	730	28	200	57	405	2.6	246
Ⓜ TP	US590-502E	1/8 90	Single-Phase 220	50	90~1400	103	730	32	230	51	360	1.1	200
			Single-Phase 220	60	90~1600	103	730	36	260	51	360	1.2	221
			Single-Phase 230	50	90~1400	103	730	32	230	56	400	1.2	201
			Single-Phase 230	60	90~1600	103	730	36	260	56	400	1.2	227

Ⓜ ZP: Impedance Protected.

Ⓜ TP: Contains a built-in thermal protector. If a motor overheats for any reason, the thermal protector is opened and the motor stops. When the motor temperature drops, the thermal protector closes and the motor automatically restarts. Be sure to turn off the power before inspecting.

• The speed ranges shown are under no load conditions.

• The "U" and "E" at the end of the model number indicate that the unit includes a capacitor. These letters are not listed on the motor nameplate.

General Specifications of the Motor

Item	Specifications
Insulation Resistance	100 MΩ or more when 500 VDC is applied between the windings and the frame after rated motor operation under normal ambient temperature and humidity.
Dielectric Strength	Sufficient to withstand 1.5 kV at 50 Hz and 60 Hz applied between the windings and the frame after rated motor operation under normal ambient temperature and humidity for 1 minute.
Temperature Rise	144°F (80°C) or less measured by the resistance change method after rated operation of motor with connected gearhead or equivalent heat radiation plate*.
Overheating Protection Device	US206 models are impedance protected. All others have built-in thermal protector (Automatic return type) Operating temperature, open: 266°F±9°F (130°C±5°C) Close: 179.6°F±27°F (82°C±15°C)
Insulation Class	Class B (266°F [130°C])
Ambient Temperature Range	14°F~104°F (-10°C~+40°C) (nonfreezing)
Ambient Humidity	85% maximum (non condensing)
Degree of Protection	US206, US315, US425, US540: IP20 US560, US590: IP40