

Electric Motor Performance Data for IQ New Generation Actuators – 3 Phase Power Supplies

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Introduction

This guide provides IQ motor data for standard class F, 15 minute rated actuators at the following supply voltages:

60HZ 200 208 220 230 240 380 440 460 480 575 600

50Hz 200 220 240 380 400 415 440 460 500 525 550 660 690

Important Notes

- ☐ At any voltage, “apply” indicates that the particular motor has not been systemised. Contact Rotork.
- ☐ IQ 90 at 48 rpm and higher speeds are not available at voltages up to and including 240V
- ☐ IQ91 is not available at 60Hz voltages below 440.
- ☐ IQ91 is not available 50Hz voltages below 380.

Glossary

- ☐ Rated Torque – Corresponds to 100% torque switch setting
- ☐ Locked Rotor – motor starting and stalled condition
- ☐ Rated Amps – current at 100% torque switch setting
- ☐ Average (nominal) load.-. Corresponds to 33% of rated torque. This average value has been confirmed as conservative after 40 years of experience in valve motorisation. It encompasses low torque values around the open position with rising torque as flow throttling takes place to final seating torque.
- ☐ Efficiency – electrical efficiency of the actuator motor.

Design criteria

Motors designed for operation of valve actuators require special consideration. As continuous running is not a requirement with isolating and “inching” or regulating duty valves, motors need only be short duty time rated. Valve load can vary dramatically across stroke and from stroke to stroke as process and valve conditions vary. Varying from light running to rated torque with a facility to exceed rated in unseating “sticky” valves, actual motor loading has no constant. To apply traditional motor protection to actuator motors is therefore flawed, leading to spurious tripping or no protection at all.

Rotork recognise the special nature of actuator motors and have therefore designed the IQ motor and its control package with this unique duty at the forefront.

IQ Motor Design

IQ motors are of a low inertia, squirrel cage induction design, reaching full speed in 3 cycles of the mains frequency. In their standard 3 phase form they are class F insulated, rated 15 minutes at average load. The motor torque/speed characteristic has been designed to fulfil the following requirements:

- ☐ High stall torque in comparison with that required to operate and seat the valve. This is essential in maintaining rated torque at depressed voltage conditions as torque varies with the square of the voltage. Rotork are able to guarantee actuator performance at –10% of nominal voltage.
- ☐ Pull out torque available at speed (50-70% of synchronous) which combined with the lost motion drive, allows the motor to reach full speed with maximum available torque before the drive is applied to the valve, ensuring unseating for all except jammed valves. For “inching” duty when the lost motion has been taken up, starting torque is high, at least 80% of pull out torque.

IQ motor control protection

The primary protection for the motor is torque switch protection. By measuring the actuator output torque and comparing to the open and close torque switch setting, effective motor and more importantly, valve protection is achieved.

IQ motors are also protected by two thermostats embedded in the motor end windings providing over temperature protection if the duty cycle exceeds actuator rating. IQ control protection will prevent motor stall in the event of valve jamming *. Phase rotation protection and lost phase protection are also incorporated as standard.

Using torque as the primary means of motor protection along with thermostat and IQ control protection eliminates the requirement for traditional protection methods and their inherent weakness when applied to short time duty, variable load motors.

*If "Boost" open torque is set the actuator will develop torque in excess of rated and can stall in attempting to unseat a jammed valve. If the actuator stalls, jammed valve protection will trip the motor within 4 seconds.

Power supply cable sizing

As a minimum requirement, cables must be sized to ensure volt drop does not exceed 15% of nominal supply voltage at locked rotor current.

Fuse selection

Due to the unique nature of the motor duty and taking in to account the comprehensive control protection of the IQ, sizing of fuses or trip devices should be based on protecting the power cable connected to the actuator.

If required, protection may be enhanced by sizing trip devices to disconnect after 10 seconds at locked rotor current. This will reduce the risk of severe motor heating under stall conditions while preventing spurious trips under normal operation. It should be noted that sizing trip devices in this manner may not be possible while meeting other criteria and is purely designed to meet extreme fault conditions such as jammed contactor when standard control protection cannot de-energise the motor. All other operating conditions will be catered for by the standard IQ control protection.

Frequency converters and UPS

Frequency converters for variable speed drives are not recommended as a suitable supply for IQ actuators. Where UPS systems are required, the power supply should have negligible harmonic distortion. In general terms actuators are designed to operate on power supplies conforming to recognised power supply standards such as EN 50160 – Voltage Characteristics of Electricity Supplied by Public Distribution systems. Please apply to Rotork with specific UPS supply characteristics if different from above.

Motor Options

IQ motors are available with extended duty cycles and Class H insulation. Please apply.

IQ New Generation - Motor Data

200 3 Phase 60Hz

ACTUATOR	TORQUE (Rated lbs.ft.)		MOTOR Poles	LOCKED ROTOR Amps P.F.		RATED Amps	AVERAGE (NOMINAL) LOAD			
				Amps	Kw		P.F.	Effy.%		
IQ10										
21	25	4	3.70	0.83	1.20	0.91	0.06	0.35	58.00	
29	25	4	3.70	0.83	1.40	1.13	0.08	0.35	58.00	
43	25	4	4.40	0.80	1.65	1.25	0.11	0.41	60.00	
57	25	4	4.40	0.80	1.75	1.51	0.13	0.41	60.00	
86	25	4	9.00	0.85	2.65	1.78	0.18	0.46	62.00	
115	25	4	11.30	0.81	3.50	1.80	0.23	0.40	50.00	
IQ12										
21	60	4	9.00	0.85	2.60	2.21	0.15	0.40	50.00	
29	60	4	11.30	0.81	3.30	2.74	0.19	0.40	50.00	
43	60	4	11.30	0.81	4.10	3.10	0.26	0.40	50.00	
57	50	4	11.30	0.81	4.10	3.10	0.26	0.40	50.00	
86	35	4	11.30	0.81	4.00	3.10	0.25	0.40	50.00	
115	30	4	11.30	0.81	4.30	3.10	0.27	0.40	50.00	
IQ18										
21	80	4	11.30	0.81	3.40	2.95	0.20	0.40	50.00	
29	80	4	11.30	0.81	4.00	3.07	0.25	0.45	53.00	
IQ20										
21	150	4	27.00	0.83	9.00	5.53	0.38	0.40	50.00	
29	150	4	27.00	0.83	9.10	6.86	0.48	0.40	50.00	
43	150	4	27.00	0.83	11.00	9.22	0.64	0.40	50.00	
57	150	4	34.00	0.82	11.80	9.28	0.77	0.40	60.00	
86	130	4	47.00	0.83	13.00	9.60	0.92	0.43	60.00	
115	105	4	47.00	0.83	13.20	9.60	0.95	0.43	60.00	
173	75	4	47.00	0.83	13.30	9.60	0.97	0.43	60.00	
IQ25										
21	295	4	47.00	0.83	11.00	7.90	0.75	0.43	60.00	
29	295	4	47.00	0.83	13.10	7.90	0.93	0.43	60.00	
43	220	4	47.00	0.83	13.20	7.90	0.94	0.43	60.00	
57	180	4	47.00	0.83	13.10	7.90	0.93	0.43	60.00	
86	180	2	50.00	0.84	14.00	6.54	1.27	0.70	80.00	
115	170	2	50.00	0.84	16.00	7.00	1.54	0.70	80.00	
173	110	2	50.00	0.84	15.00	7.00	1.43	0.70	80.00	
IQ35										
21	450	4	51.00	0.84	13.50	6.81	1.15	0.65	75.00	
29	450	4	60.00	0.88	16.00	11.90	1.43	0.51	65.00	
43	400	4	60.00	0.88	19.00	11.90	1.70	0.51	65.00	
57	350	2	90.00	0.85	20.00	11.00	1.80	0.50	65.00	
86	350	2	60.00	0.88	15.00	11.00	2.47	0.51	65.00	
115	270	2	90.00	0.85	25.00	11.00	2.45	0.50	65.00	
173	190	2	90.00	0.85	25.00	11.00	2.47	0.50	65.00	
IQ40										
21	750	4					apply			
29	750	4					apply			
43	625	4					apply			
57	500	2					apply			
86	500	2					apply			
115	400	2					apply			
173	300	2					apply			
IQ70										
21	1100	4					apply			
29	1100	4					apply			
43	950	2					apply			
57	750	2					apply			
86	750	2					apply			
115	550	2					apply			
173	475	2					apply			
230	400	2					apply			
IQ90										
21	1500	4					apply			
29	1500	4					apply			
43	1250	4					apply			
57	1000	2					not available at 200-3-60			
86	1000	2					not available at 200-3-60			
115	750	2					not available at 200-3-60			
173	640	2					not available at 200-3-60			
230	540	2					not available at 200-3-60			
IQ95										
29	2200	4					apply			

IQ 91 not available at 200-3-60

All data is approximate

IQ New Generation - Motor Data

208 3 Phase 60Hz

ACTUATOR	TORQUE (Rated lbs.ft.)		MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE (NOMINAL) LOAD			
				Amps	P.F.		Amps	Kw	P.F.	Effy.%
IQ10										
	21	25	4	3.70	0.83	1.20	0.87	0.06	0.35	58.00
	29	25	4	3.70	0.83	1.40	1.08	0.08	0.35	58.00
	43	25	4	4.40	0.80	1.65	1.20	0.11	0.41	60.00
	57	25	4	4.40	0.80	1.75	1.45	0.13	0.41	60.00
	86	25	4	9.00	0.85	2.65	1.72	0.18	0.46	62.00
	115	25	4	9.00	0.85	3.00	2.21	0.23	0.46	62.00
IQ12										
	21	60	4	9.00	0.85	2.60	1.49	0.15	0.46	62.00
	29	60	4	9.00	0.85	2.70	1.85	0.19	0.46	62.00
	43	60	4	11.30	0.81	4.10	3.55	0.26	0.40	50.00
	57	50	4	11.30	0.81	4.10	3.57	0.26	0.40	50.00
	86	35	4	11.30	0.81	4.00	3.42	0.25	0.40	50.00
	115	30	4	11.30	0.81	4.30	3.78	0.27	0.40	50.00
IQ18										
	21	80	4	11.30	0.81	3.40	2.84	0.20	0.40	50.00
	29	80	4	11.30	0.81	4.00	2.95	0.25	0.45	53.00
IQ20										
	21	150	4	20.00	0.80	5.50	5.32	0.38	0.40	50.00
	29	150	4	22.00	0.83	9.10	6.60	0.48	0.40	50.00
	43	150	4	27.00	0.83	11.00	8.87	0.64	0.40	50.00
	57	150	4	34.00	0.82	11.80	8.92	0.77	0.40	60.00
	86	130	4	34.00	0.82	13.00	9.86	0.92	0.43	60.00
	115	105	4	34.00	0.82	13.20	10.26	0.95	0.43	60.00
	173	75	4	34.00	0.82	13.30	10.47	0.97	0.43	60.00
IQ25										
	21	295	4	34.00	0.82	11.00	8.11	0.75	0.43	60.00
	29	295	4	34.00	0.82	13.10	10.06	0.93	0.43	60.00
	43	220	4	34.00	0.82	13.20	10.08	0.94	0.43	60.00
	57	180	4	34.00	0.82	13.10	9.96	0.93	0.43	60.00
	86	180	2	50.00	0.84	14.00	6.29	1.27	0.70	80.00
	115	170	2	50.00	0.84	16.00	7.66	1.54	0.70	80.00
	173	110	2	50.00	0.84	15.00	7.08	1.43	0.70	80.00
IQ35										
	21	450	4	51.00	0.84	13.50	6.55	1.15	0.65	75.00
	29	450	4	60.00	0.88	16.00	11.94	1.43	0.51	65.00
	43	400	4	60.00	0.88	19.00	14.26	1.70	0.51	65.00
	57	350	2	75.00	0.82	20.00	15.37	1.80	0.50	65.00
	86	350	2	90.00	0.85	25.00	21.07	2.47	0.50	65.00
	115	270	2	90.00	0.85	25.00	20.95	2.45	0.50	65.00
	173	190	2	90.00	0.85	25.00	21.06	2.47	0.50	65.00
IQ40										
	21	750	4	90.00	0.87	31.00	13.30	1.92	0.50	80.00
	29	750	4	90.00	0.87	35.00	16.50	2.38	0.50	80.00
	43	625	4	90.00	0.87	36.00	18.47	2.66	0.50	80.00
	57	500	2	116.00	0.93	29.00	16.99	2.57	0.60	70.00
	86	500	2	116.00	0.93	32.00	20.07	3.52	0.65	75.00
	115	400	2	116.00	0.93	32.00	20.69	3.63	0.65	75.00
	173	300	2	116.00	0.93	32.00	22.17	3.89	0.65	75.00
IQ70										
	21	1100	4	120.00	0.87	35.00	20.81	2.81	0.50	75.00
	29	1100	4	120.00	0.87	40.00	25.81	3.49	0.50	75.00
	43	950	2				apply			
	57	750	2				apply			
	86	750	2				apply			
	115	550	2				apply			
	173	475	2				apply			
	230	400	2				apply			
IQ90										
	21	1500	4				apply			
	29	1500	4				apply			
	43	1250	4				apply			
	57	1000	2				not available at 208-3-60			
	86	1000	2				not available at 208-3-60			
	115	750	2				not available at 208-3-60			
	173	640	2				not available at 208-3-60			
	230	540	2				not available at 208-3-60			
IQ95										
	29	2200	4				apply			

IQ91 not available at 208-3-60

All data is approximate

IQ New Generation - Motor Data

220 3 Phase 60Hz

ACTUATOR	TORQUE (Rated lbs.ft.)		MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE (NOMINAL) LOAD			
				Amps	P.F.		Amps	Kw	P.F.	Effy.%
IQ10	21	25	4	4.70	0.87	1.20	0.83	0.06	0.35	58.00
	29	25	4	4.30	0.87	1.40	1.02	0.08	0.35	58.00
	43	25	4	4.30	0.87	1.65	1.38	0.11	0.35	58.00
	57	25	4	4.40	0.80	1.75	1.37	0.13	0.41	60.00
	86	25	4	7.70	0.78	2.40	1.31	0.18	0.59	60.00
	115	25	4	9.00	0.85	3.00	1.70	0.23	0.46	62.00
IQ12	21	60	4	9.00	0.85	2.60	1.41	0.15	0.46	62.00
	29	60	4	9.00	0.85	2.70	1.75	0.19	0.46	62.00
	43	60	4	9.00	0.85	3.00	2.35	0.26	0.46	62.00
	57	50	4	11.30	0.81	4.10	2.80	0.26	0.40	50.00
	86	35	4	11.30	0.81	4.00	2.80	0.25	0.40	50.00
	115	30	4	11.30	0.81	4.30	2.80	0.27	0.40	50.00
IQ18	21	80	4	9.00	0.85	2.70	1.88	0.20	0.46	62.00
	29	80	4	11.30	0.81	4.00	2.79	0.25	0.45	53.00
IQ20	21	150	4	20.00	0.80	5.50	4.50	0.38	0.40	50.00
	29	150	4	20.00	0.80	6.50	6.24	0.48	0.40	50.00
	43	150	4	27.00	0.83	11.00	8.38	0.64	0.40	50.00
	57	150	4	27.00	0.83	11.80	8.70	0.77	0.40	50.00
	86	130	4	34.00	0.82	13.00	8.70	0.92	0.43	60.00
	115	105	4	34.00	0.82	13.20	8.70	0.95	0.43	60.00
	173	75	4	34.00	0.82	13.30	8.70	0.97	0.43	60.00
IQ25	21	295	4	34.00	0.82	11.00	7.20	0.75	0.43	60.00
	29	295	4	34.00	0.82	13.10	7.20	0.93	0.43	60.00
	43	220	4	34.00	0.82	13.20	7.20	0.94	0.43	60.00
	57	180	4	34.00	0.82	13.10	7.20	0.93	0.43	60.00
	86	180	2	57.00	0.84	12.00	5.95	1.27	0.70	80.00
	115	170	2	57.00	0.84	14.00	6.40	1.54	0.70	80.00
	173	110	2	57.00	0.84	13.00	6.40	1.43	0.70	80.00
IQ35	21	450	4	51.00	0.84	14.50	6.19	1.15	0.65	75.00
	29	450	4	51.00	0.84	17.00	7.68	1.43	0.65	75.00
	43	400	4	60.00	0.88	19.00	10.80	1.70	0.51	65.00
	57	350	2	75.00	0.82	20.00	11.00	1.80	0.50	65.00
	86	350	2	90.00	0.85	25.00	11.00	2.47	0.50	65.00
	115	270	2	90.00	0.85	25.00	11.00	2.45	0.50	65.00
	173	190	2	90.00	0.85	25.00	11.00	2.47	0.50	65.00
IQ40	21	750	4	89.00	0.87	19.00	11.70	1.92	0.50	75.00
	29	750	4	89.00	0.87	27.00	11.70	2.38	0.58	75.00
	43	625	4	89.00	0.87	30.00	11.70	2.66	0.60	75.00
	57	500	2	145.00	0.73	25.00	11.76	2.57	0.70	82.00
	86	500	2	145.00	0.73	33.00	14.40	3.52	0.73	85.00
	115	400	2	145.00	0.73	34.00	14.40	3.63	0.74	85.00
	173	300	2	145.00	0.73	35.00	14.40	3.89	0.74	85.00
IQ70	21	1100	4	115.00	0.88	30.00	14.60	2.81	0.65	70.00
	29	1100	4	115.00	0.88	30.00	14.60	3.49	0.70	75.00
	43	950	2	180.00	0.90	36.00	20.50	4.05	0.65	75.00
	57	750	2	180.00	0.90	35.00	20.50	3.86	0.65	75.00
	86	750	2	180.00	0.90	43.00	20.50	5.29	0.70	80.00
	115	550	2	180.00	0.90	41.00	20.50	5.00	0.70	80.00
	173	475	2	180.00	0.90	50.00	20.50	6.17	0.74	85.00
	230	400	2	180.00	0.90	60.00	20.50	6.71	0.74	85.00
IQ90	21	1500	4	130.00	0.87	34.00	20.63	3.83	0.65	75.00
	29	1500	4	130.00	0.87	43.00	21.00	4.75	0.68	78.00
	43	1250	4	130.00	0.87	52.00	21.00	5.32	0.70	82.00
	57	1000	2			not available at 220-3-60				
	86	1000	2			not available at 220-3-60				
	115	750	2			not available at 220-3-60				
	173	640	2			not available at 220-3-60				
	230	540	2			not available at 220-3-60				
IQ95	29	2200	4	180.00	0.86	70.00	21.20	6.97	0.75	80.00

IQ91 not available at 220-3-60

IQ New Generation - Motor Data

230 3 Phase 60Hz

ACTUATOR		TORQUE (Rated lbs.ft.)	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE (NOMINAL) LOAD			
				Amps	P.F.		Amps	Kw	P.F.	Effy.%
IQ10	21	25	4	4.70	0.87	1.10	0.79	0.06	0.35	58.00
	29	25	4	4.70	0.87	1.15	0.98	0.08	0.35	58.00
	43	25	4	4.30	0.87	1.50	1.21	0.11	0.40	55.00
	57	25	4	4.30	0.87	1.60	1.40	0.13	0.42	55.00
	86	25	4	7.70	0.78	2.10	1.25	0.18	0.59	60.00
	115	25	4	9.00	0.85	1.65	2.00	0.23	0.46	62.00
IQ12	21	60	4	7.70	0.78	2.30	1.09	0.15	0.59	60.00
	29	60	4	9.00	0.85	2.70	1.67	0.19	0.46	62.00
	43	60	4	9.00	0.85	3.00	2.25	0.26	0.46	62.00
	57	50	4	9.00	0.85	3.00	2.26	0.26	0.46	62.00
	86	35	4	9.00	0.85	3.00	2.17	0.25	0.46	62.00
	115	30	4	9.00	0.85	3.10	2.40	0.27	0.46	62.00
IQ18	21	80	4	9.00	0.85	2.70	1.80	0.20	0.46	62.00
	29	80	4	12.00	0.82	3.50	3.18	0.25	0.40	50.00
IQ20	21	150	4	20.00	0.80	5.50	4.81	0.38	0.40	50.00
	29	150	4	20.00	0.80	6.50	5.97	0.48	0.40	50.00
	43	150	4	22.00	0.86	11.00	8.02	0.64	0.40	50.00
	57	150	4	27.00	0.83	11.80	9.68	0.77	0.40	50.00
	86	130	4	34.00	0.82	13.00	8.92	0.92	0.43	60.00
	115	105	4	34.00	0.82	13.20	9.28	0.95	0.43	60.00
IQ25	173	75	4	34.00	0.82	13.30	9.47	0.97	0.43	60.00
	21	295	4	34.00	0.82	11.00	7.33	0.75	0.43	60.00
	29	295	4	34.00	0.82	13.10	9.10	0.93	0.43	60.00
	43	220	4	34.00	0.82	13.20	9.12	0.94	0.43	60.00
	57	180	4	34.00	0.82	13.10	9.01	0.93	0.43	60.00
	86	180	2	57.00	0.84	12.00	5.69	1.27	0.70	80.00
IQ35	115	170	2	57.00	0.84	14.00	6.92	1.54	0.70	80.00
	173	110	2	57.00	0.84	13.00	6.40	1.43	0.70	80.00
	21	450	4	42.00	0.81	14.50	5.92	1.15	0.65	75.00
	29	450	4	51.00	0.84	17.00	7.34	1.43	0.65	75.00
	43	400	4	60.00	0.88	19.00	12.90	1.70	0.51	65.00
	57	350	2	75.00	0.82	20.00	13.90	1.80	0.50	65.00
IQ40	86	350	2	75.00	0.82	25.00	19.06	2.47	0.50	65.00
	115	270	2	75.00	0.82	25.00	18.95	2.45	0.50	65.00
	173	190	2	75.00	0.82	25.00	19.05	2.47	0.50	65.00
	21	750	4	115.00	0.77	23.00	13.46	1.92	0.55	65.00
	29	750	4	115.00	0.77	28.00	13.11	2.38	0.65	70.00
	43	625	4	115.00	0.77	29.00	13.50	2.66	0.66	75.00
IQ70	57	500	2	145.00	0.73	25.00	11.25	2.57	0.70	82.00
	86	500	2	145.00	0.73	33.00	14.26	3.52	0.73	85.00
	115	400	2	145.00	0.73	34.00	14.50	3.63	0.74	85.00
	173	300	2	145.00	0.73	35.00	15.54	3.89	0.74	85.00
	21	1100	4	140.00	0.71	30.00	13.84	2.81	0.68	75.00
	29	1100	4	140.00	0.71	36.00	14.62	3.49	0.73	82.00
IQ90	43	950	2	180.00	0.90	36.00	20.83	4.05	0.65	75.00
	57	750	2	180.00	0.90	35.00	19.86	3.86	0.65	75.00
	86	750	2	180.00	0.90	43.00	23.70	5.29	0.70	80.00
	115	550	2	180.00	0.90	41.00	22.40	5.00	0.70	80.00
	173	475	2	180.00	0.90	50.00	24.61	6.17	0.74	85.00
	230	400	2	180.00	0.90	60.00	26.78	6.71	0.74	85.00
IQ95	21	1500	4	apply						
	29	1500	4	apply						
	43	1250	4	apply						
	57	1000	2	not available at 230-3-60						
	86	1000	2	not available at 230-3-60						
	115	750	2	not available at 230-3-60						
IQ95	173	640	2	not available at 230-3-60						
	230	540	2	not available at 230-3-60						
IQ95	29	2200	4	apply						

IQ91 not available at 230-3-60

All data is approximate

IQ New Generation - Motor Data

240 3 Phase 60Hz

ACTUATOR	TORQUE (Rated lbs.ft.)	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE (NOMINAL) LOAD			
			Amps	P.F.		Amps	Kw	P.F.	Effy.%
IQ10	21	25	4	4.70	0.87	0.94	0.77	0.06	57.00
	29	25	4	4.70	0.87	1.00	0.91	0.08	60.00
	43	25	4	4.30	0.87	1.40	1.16	0.11	55.00
	57	25	4	4.30	0.87	1.50	1.34	0.13	55.00
	86	25	4	6.60	0.82	1.99	1.14	0.18	70.00
	115	25	4	9.00	0.85	2.58	1.70	0.23	63.00
IQ12	21	60	4	8.44	0.80	1.75	1.13	0.15	65.00
	29	60	4	8.44	0.80	2.22	1.70	0.19	61.00
	43	60	4	9.00	0.85	3.00	2.16	0.26	62.00
	57	50	4	9.00	0.85	3.00	2.17	0.26	62.00
	86	35	4	9.00	0.85	3.00	2.08	0.25	62.00
	115	30	4	9.00	0.85	3.10	2.30	0.27	62.00
IQ18	21	80	4	9.00	0.85	2.70	1.72	0.20	62.00
	29	80	4	9.00	0.85	3.00	2.14	0.25	62.00
IQ20	21	150	4	18.00	0.81	6.00	4.61	0.38	50.00
	29	150	4	18.00	0.84	6.50	5.72	0.48	50.00
	43	150	4	22.00	0.86	11.00	7.68	0.64	50.00
	57	150	4	22.00	0.86	11.80	9.28	0.77	50.00
	86	130	4	33.00	0.83	12.50	8.55	0.92	60.00
	115	105	4	33.00	0.83	12.60	8.90	0.95	60.00
IQ25	173	75	4	33.00	0.83	12.70	9.08	0.97	60.00
	21	295	4	30.00	0.84	12.00	7.56	0.75	60.00
	29	295	4	30.00	0.84	14.00	8.52	0.93	60.00
	43	220	4	33.00	0.83	12.60	8.74	0.94	60.00
	57	180	4	33.00	0.83	12.60	8.63	0.93	60.00
	86	180	2	48.00	0.84	13.00	5.45	1.27	80.00
IQ35	115	170	2	48.00	0.84	13.50	6.64	1.54	80.00
	173	110	2	48.00	0.84	13.20	6.13	1.43	80.00
	21	450	4	42.00	0.81	14.50	5.67	1.15	75.00
	29	450	4	51.00	0.84	17.00	7.04	1.43	75.00
	43	400	4	60.00	0.88	19.00	12.36	1.70	65.00
	57	350	2	72.00	0.82	20.00	6.77	1.80	80.00
IQ40	86	350	2	75.00	0.82	25.00	18.26	2.47	65.00
	115	270	2	75.00	0.82	25.00	18.16	2.45	65.00
	173	190	2	75.00	0.82	25.00	18.25	2.47	65.00
	21	750	4	84.00	0.90	20.00	12.81	1.92	80.00
	29	750	4	84.00	0.90	22.00	14.59	2.38	80.00
	43	625	4	84.00	0.90	23.00	16.01	2.66	80.00
IQ70	57	500	2	140.00	0.90	30.00	14.70	2.57	61.00
	86	500	2	140.00	0.90	34.00	18.12	3.52	65.00
	115	400	2	140.00	0.90	36.00	18.68	3.63	65.00
	173	300	2	140.00	0.90	38.00	20.02	3.89	65.00
	21	1100	4	120.00	0.88	23.00	17.34	2.81	65.00
	29	1100	4	120.00	0.88	26.00	18.43	3.49	70.00
IQ90	43	950	2	166.00	0.78	36.00	16.22	4.05	80.00
	57	750	2	166.00	0.78	36.00	15.47	3.86	80.00
	86	750	2	166.00	0.78	46.00	19.63	5.29	81.00
	115	550	2	166.00	0.78	45.00	18.55	5.00	81.00
	173	475	2	166.00	0.78	55.00	21.53	6.17	83.00
	230	400	2	166.00	0.78	65.00	23.15	6.71	84.00
IQ95	21	1500	4				apply		
	29	1500	4				apply		
	43	1250	4				apply		
	57	1000	2	271.00	0.82	46.00	23.79	5.14	80.00
	86	1000	2	271.00	0.82	60.00	30.05	7.05	83.00
	115	750	2	271.00	0.82	58.00	29.05	6.81	83.00
IQ95	173	640	2	271.00	0.82	72.00	32.65	8.31	85.00
	230	540	2	271.00	0.82	84.00	32.07	9.06	86.00
IQ95	29	2200	4	170.00	0.86	60.00	24.69	6.97	86.00

IQ91 not available at 240-3-60

All data is approximate

IQ New Generation - Motor Data

380 3 Phase 60Hz

ACTUATOR		TORQUE (Rated lbs.ft.)	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE (NOMINAL) LOAD			
				Amps	P.F.		Amps	Kw	P.F.	Effy.%
IQ10	21	25	4	2.00	0.85	0.60	0.39	0.06	0.46	54.00
	29	25	4	2.90	0.83	0.75	0.51	0.08	0.42	56.00
	43	25	4	2.90	0.83	0.80	0.69	0.11	0.42	56.00
	57	25	4	4.00	0.84	1.20	0.58	0.13	0.75	45.00
	86	25	4	4.36	0.83	1.25	1.01	0.18	0.52	51.00
	115	25	4	6.00	0.87	1.55	1.53	0.23	0.47	48.00
IQ12	21	60	4	6.00	0.87	1.40	1.15	0.15	0.44	46.00
	29	60	4	6.00	0.87	1.50	1.34	0.19	0.46	47.00
	43	60	4	7.00	0.84	2.00	1.73	0.26	0.45	50.00
	57	50	4	6.00	0.87	1.70	1.66	0.26	0.48	49.00
	86	35	4	7.00	0.84	2.00	1.67	0.25	0.45	50.00
	115	30	4	7.00	0.84	2.00	1.84	0.27	0.45	50.00
IQ18	21	80	4	7.00	0.84	1.60	1.38	0.20	0.45	50.00
	29	80	4	7.00	0.84	2.00	1.71	0.25	0.45	50.00
IQ20	21	150	4	11.20	0.83	3.00	2.65	0.38	0.40	55.00
	29	150	4	11.20	0.83	3.60	3.28	0.48	0.40	55.00
	43	150	4	18.70	0.82	3.70	3.60	0.64	0.45	60.00
	57	150	4	18.70	0.82	4.40	4.34	0.77	0.45	60.00
	86	130	4	22.40	0.82	5.90	5.16	0.92	0.45	60.00
	115	105	4	22.40	0.82	6.00	5.37	0.95	0.45	60.00
	173	75	4	22.40	0.82	6.00	5.48	0.97	0.45	60.00
IQ25	21	295	4	22.40	0.82	5.50	4.24	0.75	0.45	60.00
	29	295	4	22.40	0.82	5.90	5.26	0.93	0.45	60.00
	43	220	4	22.40	0.82	5.90	5.27	0.94	0.45	60.00
	57	180	4	22.40	0.82	5.90	5.21	0.93	0.45	60.00
	86	180	2	32.00	0.83	6.80	4.33	1.27	0.55	81.00
	115	170	2	32.00	0.83	9.00	4.90	1.54	0.57	84.00
	173	110	2	32.00	0.83	7.50	4.72	1.43	0.56	82.00
IQ35	21	450	4	26.20	0.84	7.20	3.43	1.15	0.68	75.00
	29	450	4	28.80	0.86	9.50	4.24	1.43	0.70	73.00
	43	400	4	43.00	0.87	12.00	7.37	1.70	0.54	65.00
	57	350	2	40.20	0.82	11.00	3.79	1.80	0.85	85.00
	86	350	2	40.20	0.82	16.00	4.90	2.47	0.90	85.00
	115	270	2	40.20	0.82	16.00	4.87	2.45	0.90	85.00
	173	190	2	40.20	0.82	16.00	4.90	2.47	0.90	85.00
IQ40	21	750	4	52.00	0.88	13.00	8.32	1.92	0.50	70.00
	29	750	4	52.00	0.88	15.00	9.12	2.38	0.55	72.00
	43	625	4	52.00	0.88	18.00	9.85	2.66	0.57	72.00
	57	500	2	77.00	0.90	18.00	10.15	2.57	0.55	70.00
	86	500	2	77.00	0.90	22.00	13.05	3.52	0.57	72.00
	115	400	2	77.00	0.90	22.00	13.46	3.63	0.57	72.00
	173	300	2	77.00	0.90	23.00	14.42	3.89	0.57	72.00
IQ70	21	1100	4	68.00	0.88	16.00	10.17	2.81	0.60	70.00
	29	1100	4	68.00	0.88	19.00	12.26	3.49	0.60	72.00
	43	950	2	99.00	0.92	22.00	14.64	4.05	0.60	70.00
	57	750	2	99.00	0.92	22.00	13.95	3.86	0.60	70.00
	86	750	2	99.00	0.92	31.00	18.51	5.29	0.62	70.00
	115	550	2	99.00	0.92	30.00	17.01	5.00	0.62	72.00
	173	475	2	99.00	0.92	35.00	20.02	6.17	0.65	72.00
	230	400	2	99.00	0.92	37.00	19.42	6.71	0.70	75.00
IQ90	21	1500	4	100.00	0.85	22.00	13.87	3.83	0.60	70.00
	29	1500	4	100.00	0.85	26.00	14.82	4.75	0.65	75.00
	43	1250	4	100.00	0.85	28.00	14.44	5.32	0.70	80.00
	57	1000	2	140.00	0.99	32.00	18.60	5.14	0.60	70.00
	86	1000	2	140.00	0.99	39.00	21.97	7.05	0.65	75.00
	115	750	2	140.00	0.99	38.00	21.24	6.81	0.65	75.00
	173	640	2	140.00	0.99	45.00	22.54	8.31	0.70	80.00
	230	540	2	140.00	0.99	47.00	24.58	9.06	0.70	80.00
IQ95	29	2200	4	100.00	0.85	40.00	18.92	6.97	0.70	80.00

IQ91 not available at 380-3-60

All data is approximate

IQ New Generation - Motor Data

440 3 Phase 60Hz

ACTUATOR		TORQUE (Rated lbs.ft.)	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE (NOMINAL) LOAD			
				Amps	P.F.		Amps	Kw	P.F.	Effy.%
IQ10	21	25	4	2.00	0.84	0.52	0.42	0.06	0.35	57.00
	29	25	4	2.40	0.86	0.75	0.45	0.08	0.42	55.00
	43	25	4	2.40	0.86	0.80	0.60	0.11	0.42	55.00
	57	25	4	2.70	0.86	1.00	0.88	0.13	0.35	55.00
	86	25	4	3.30	0.83	1.10	0.62	0.18	0.53	70.00
	115	25	4	4.90	0.82	1.50	0.80	0.23	0.50	53.00
IQ12	21	60	4	4.90	0.82	1.20	0.89	0.15	0.45	50.00
	29	60	4	4.90	0.82	1.30	0.94	0.19	0.50	53.00
	43	60	4	4.90	0.82	1.70	1.11	0.26	0.55	55.00
	57	50	4	6.70	0.82	2.10	1.40	0.26	0.39	52.00
	86	35	4	6.70	0.82	2.10	1.40	0.25	0.39	52.00
	115	30	4	6.70	0.82	2.20	1.40	0.27	0.39	52.00
IQ18	21	80	4	6.70	0.82	2.00	1.32	0.20	0.39	52.00
	29	80	4	6.70	0.82	2.10	1.64	0.25	0.39	52.00
IQ20	21	150	4	10.40	0.80	2.80	2.29	0.38	0.40	55.00
	29	150	4	10.40	0.80	3.10	2.30	0.48	0.40	55.00
	43	150	4	17.30	0.83	4.60	3.49	0.64	0.40	60.00
	57	150	4	17.30	0.83	5.00	4.22	0.77	0.40	60.00
	86	130	4	18.68	0.82	5.20	4.40	0.92	0.41	62.00
	115	105	4	18.68	0.82	5.20	4.40	0.95	0.41	62.00
	173	75	4	18.68	0.82	5.30	4.40	0.97	0.41	62.00
IQ25	21	295	4	18.68	0.82	4.50	3.60	0.75	0.41	62.00
	29	295	4	17.00	0.82	6.50	3.60	0.93	0.43	60.00
	43	220	4	18.68	0.82	5.20	3.60	0.94	0.41	62.00
	57	180	4	18.68	0.82	5.20	3.60	0.93	0.41	62.00
	86	180	2	28.90	0.82	5.30	2.97	1.27	0.70	80.00
	115	170	2	28.90	0.82	7.20	3.20	1.54	0.74	85.00
	173	110	2	28.90	0.82	6.50	3.17	1.43	0.72	82.00
IQ35	21	450	4	29.00	0.85	6.90	3.38	1.15	0.62	72.00
	29	450	4	32.70	0.88	9.00	5.40	1.43	0.40	60.00
	43	400	4	32.70	0.88	10.00	5.40	1.70	0.40	60.00
	57	350	2	44.50	0.80	9.20	3.79	1.80	0.81	77.00
	86	350	2	47.00	0.88	12.00	4.48	2.47	0.85	85.00
	115	270	2	47.00	0.88	12.00	4.46	2.45	0.85	85.00
	173	190	2	47.00	0.88	12.00	4.48	2.47	0.85	85.00
IQ40	21	750	4	42.00	0.87	10.00	6.60	1.92	0.50	75.00
	29	750	4	42.00	0.87	13.00	6.60	2.38	0.58	75.00
	43	625	4	42.00	0.87	15.00	6.60	2.66	0.60	75.00
	57	500	2	72.00	0.73	13.00	5.88	2.57	0.70	82.00
	86	500	2	72.00	0.73	16.00	7.45	3.52	0.73	85.00
	115	400	2	72.00	0.73	17.00	7.58	3.63	0.74	85.00
	173	300	2	72.00	0.73	18.00	7.70	3.89	0.74	85.00
IQ70	21	1100	4	57.00	0.88	15.00	7.50	2.81	0.65	70.00
	29	1100	4	57.00	0.88	15.00	7.50	3.49	0.70	75.00
	43	950	2	90.00	0.90	18.00	9.60	4.05	0.65	75.00
	57	750	2	90.00	0.90	17.50	9.60	3.86	0.65	75.00
	86	750	2	90.00	0.90	21.00	9.60	5.29	0.70	80.00
	115	550	2	90.00	0.90	21.00	9.60	5.00	0.70	80.00
	173	475	2	90.00	0.90	25.00	9.60	6.17	0.74	85.00
	230	400	2	90.00	0.90	30.00	9.60	6.71	0.74	85.00
IQ90	21	1500	4	65.00	0.87	17.00	10.32	3.83	0.65	75.00
	29	1500	4	65.00	0.87	21.00	11.00	4.75	0.68	78.00
	43	1250	4	65.00	0.87	26.00	11.00	5.32	0.70	82.00
	57	1000	2	115.00	0.90	26.00	9.92	5.14	0.80	85.00
	86	1000	2	115.00	0.90	33.00	12.97	7.05	0.82	87.00
	115	750	2	115.00	0.90	33.00	12.53	6.81	0.82	87.00
	173	640	2	115.00	0.90	42.00	14.57	8.31	0.85	88.00
	230	540	2	115.00	0.90	43.00	15.89	9.06	0.85	88.00
IQ95	29	2200	4	90.00	0.86	35.00	11.10	6.97	0.75	80.00

IQ91 not available at 440-3-60

All data is approximate

IQ New Generation - Motor Data

460 3 Phase 60Hz

ACTUATOR		TORQUE (Rated lbs.ft.)	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE (NOMINAL) LOAD			
				Amps	P.F.		Amps	Kw	P.F.	Effy.%
IQ10	21	25	4	2.00	0.84	0.52	0.40	0.06	0.35	57.00
	29	25	4	2.00	0.84	0.57	0.46	0.08	0.37	58.00
	43	25	4	2.40	0.86	0.80	0.58	0.11	0.42	55.00
	57	25	4	2.40	0.86	0.90	0.70	0.13	0.42	55.00
	86	25	4	3.30	0.83	1.10	0.60	0.18	0.53	70.00
	115	25	4	4.90	0.82	1.50	1.08	0.23	0.50	53.00
IQ12	21	60	4	3.30	0.83	1.05	0.52	0.15	0.53	70.00
	29	60	4	4.90	0.82	1.30	0.90	0.19	0.50	53.00
	43	60	4	4.90	0.82	1.70	1.06	0.26	0.55	55.00
	57	50	4	4.90	0.82	1.70	1.07	0.26	0.55	55.00
	86	35	4	4.90	0.82	1.60	1.02	0.25	0.55	55.00
	115	30	4	4.90	0.82	1.80	1.07	0.27	0.57	56.00
IQ18	21	80	4	4.90	0.82	1.40	0.97	0.20	0.50	53.00
	29	80	4	4.90	0.82	1.70	1.05	0.25	0.55	55.00
IQ20	21	150	4	10.40	0.80	2.80	2.19	0.38	0.40	55.00
	29	150	4	10.40	0.80	3.10	2.71	0.48	0.40	55.00
	43	150	4	10.00	0.85	2.90	2.59	0.64	0.50	62.00
	57	150	4	17.30	0.83	5.00	4.03	0.77	0.40	60.00
	86	130	4	18.68	0.82	5.20	4.52	0.92	0.41	62.00
	115	105	4	18.68	0.82	5.20	4.71	0.95	0.41	62.00
	173	75	4	18.68	0.82	5.30	4.81	0.97	0.41	62.00
IQ25	21	295	4	18.68	0.82	4.50	3.72	0.75	0.41	62.00
	29	295	4	18.68	0.82	5.20	4.62	0.93	0.41	62.00
	43	220	4	18.68	0.82	5.20	4.63	0.94	0.41	62.00
	57	180	4	18.68	0.82	5.20	4.57	0.93	0.41	62.00
	86	180	2	28.90	0.82	5.30	2.84	1.27	0.70	80.00
	115	170	2	28.90	0.82	7.20	3.08	1.54	0.74	85.00
	173	110	2	28.90	0.82	6.50	3.04	1.43	0.72	82.00
IQ35	21	450	4	23.00	0.85	4.50	3.08	1.15	0.65	72.00
	29	450	4	31.00	0.87	5.90	7.46	1.43	0.40	60.00
	43	400	4	32.70	0.88	10.00	8.91	1.70	0.40	60.00
	57	350	2	44.50	0.80	9.20	3.62	1.80	0.81	77.00
	86	350	2	44.50	0.80	11.50	4.55	2.47	0.85	80.00
	115	270	2	44.50	0.80	11.50	4.53	2.45	0.85	80.00
	173	190	2	44.50	0.80	11.50	4.55	2.47	0.85	80.00
IQ40	21	750	4	40.00	0.84	10.50	6.68	1.92	0.45	80.00
	29	750	4	40.00	0.84	11.00	7.61	2.38	0.49	80.00
	43	625	4	48.00	0.86	14.00	8.10	2.66	0.75	55.00
	57	500	2	70.00	0.90	15.00	7.67	2.57	0.69	61.00
	86	500	2	70.00	0.90	17.00	9.45	3.52	0.72	65.00
	115	400	2	70.00	0.90	18.00	9.75	3.63	0.72	65.00
	173	300	2	70.00	0.90	19.00	10.44	3.89	0.72	65.00
IQ70	21	1100	4	64.00	0.87	14.00	6.36	2.81	0.72	77.00
	29	1100	4	64.00	0.87	16.00	7.39	3.49	0.74	80.00
	43	950	2	85.00	0.78	18.00	8.46	4.05	0.75	80.00
	57	750	2	85.00	0.78	18.00	8.07	3.86	0.75	80.00
	86	750	2	85.00	0.78	23.00	10.24	5.29	0.80	81.00
	115	550	2	85.00	0.78	22.00	9.68	5.00	0.80	81.00
	173	475	2	85.00	0.78	27.00	11.23	6.17	0.83	83.00
	230	400	2	85.00	0.78	32.00	12.08	6.71	0.83	84.00
IQ90	21	1500	4	75.00	0.88	18.00	10.57	3.83	0.65	70.00
	29	1500	4	75.00	0.88	19.50	12.02	4.75	0.68	73.00
	43	1250	4	75.00	0.88	20.50	12.73	5.32	0.70	75.00
	57	1000	2	135.00	0.82	24.00	12.41	5.14	0.65	80.00
	86	1000	2	135.00	0.82	30.00	15.68	7.05	0.68	83.00
	115	750	2	135.00	0.82	29.00	15.15	6.81	0.68	83.00
	173	640	2	135.00	0.82	34.00	17.04	8.31	0.72	85.00
	230	540	2	135.00	0.82	42.00	16.73	9.06	0.79	86.00
IQ91	173	1000	2	230.00	0.85	58.00	29.09	12.98	0.70	80.00
	230	1000	2	230.00	0.85	75.00	37.60	16.77	0.70	80.00
IQ95	29	2200	4	80.00	0.86	35.00	12.88	6.97	0.79	86.00

All data is approximate

IQ New Generation - Motor Data

480

3 Phase 60Hz

ACTUATOR		TORQUE (Rated lbs.ft.)	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE (NOMINAL) LOAD			
				Amps	P.F.		Amps	Kw	P.F.	Effy.%
IQ10	21	25	4	2.16	0.85	0.50	0.34	0.06	0.32	70.00
	29	25	4	2.16	0.85	0.55	0.43	0.08	0.32	70.00
	43	25	4	2.71	0.84	0.70	0.69	0.11	0.42	44.00
	57	25	4	2.71	0.84	0.80	0.70	0.13	0.46	48.00
	86	25	4	3.25	0.81	1.00	0.57	0.18	0.53	70.00
	115	25	4	4.10	0.79	1.50	0.99	0.23	0.44	63.00
IQ12	21	60	4	4.10	0.79	0.90	0.67	0.15	0.44	63.00
	29	60	4	4.10	0.79	1.00	0.83	0.19	0.44	63.00
	43	60	4	5.35	0.81	1.70	1.16	0.26	0.48	55.00
	57	50	4	5.35	0.81	1.70	1.17	0.26	0.48	55.00
	86	35	4	5.35	0.81	1.69	1.12	0.25	0.48	55.00
	115	30	4	5.35	0.81	1.75	1.24	0.27	0.48	55.00
IQ18	21	80	4	5.35	0.81	1.50	1.08	0.20	0.43	53.00
	29	80	4	5.35	0.81	1.70	1.16	0.25	0.48	55.00
IQ20	21	150	4	9.00	0.81	3.00	2.31	0.38	0.40	50.00
	29	150	4	9.00	0.76	2.40	2.31	0.48	0.45	55.00
	43	150	4	12.90	0.83	2.74	2.71	0.64	0.45	63.00
	57	150	4	12.90	0.83	3.22	2.86	0.77	0.50	65.00
	86	130	4	16.95	0.83	4.10	3.08	0.92	0.55	65.00
	115	105	4	16.95	0.83	4.30	3.21	0.95	0.55	65.00
IQ25	173	75	4	16.95	0.83	4.30	3.28	0.97	0.55	65.00
	21	295	4	15.00	0.84	6.00	4.53	0.75	0.40	50.00
	29	295	4	15.00	0.84	7.00	5.62	0.93	0.40	50.00
	43	220	4	16.95	0.83	4.20	3.15	0.94	0.55	65.00
	57	180	4	16.95	0.83	4.20	3.11	0.93	0.55	65.00
	86	180	2	24.00	0.84	5.30	2.39	1.27	0.75	85.00
IQ35	115	170	2	24.00	0.84	7.95	2.91	1.54	0.75	85.00
	173	110	2	24.00	0.84	7.00	2.69	1.43	0.75	85.00
	21	450	4	24.00	0.85	4.50	2.78	1.15	0.70	71.00
	29	450	4	31.80	0.87	5.90	3.57	1.43	0.65	74.00
	43	400	4	31.80	0.87	6.60	4.20	1.70	0.65	75.00
	57	350	2	37.60	0.82	7.60	3.38	1.80	0.80	80.00
IQ40	86	350	2	48.60	0.80	10.60	4.66	2.47	0.85	75.00
	115	270	2	48.60	0.80	10.60	4.63	2.45	0.85	75.00
	173	190	2	48.60	0.80	10.60	4.65	2.47	0.85	75.00
	21	750	4	42.00	0.90	10.00	6.40	1.92	0.45	80.00
	29	750	4	42.00	0.90	11.00	7.29	2.38	0.49	80.00
	43	625	4	42.00	0.90	12.00	8.00	2.66	0.50	80.00
IQ70	57	500	2	70.00	0.90	15.00	7.35	2.57	0.69	61.00
	86	500	2	70.00	0.90	17.00	9.06	3.52	0.72	65.00
	115	400	2	70.00	0.90	18.00	9.34	3.63	0.72	65.00
	173	300	2	70.00	0.90	19.00	10.01	3.89	0.72	65.00
	21	1100	4	60.00	0.88	13.00	8.67	2.81	0.60	65.00
	29	1100	4	60.00	0.88	14.00	9.22	3.49	0.65	70.00
IQ90	43	950	2	85.00	0.78	18.00	8.11	4.05	0.75	80.00
	57	750	2	85.00	0.78	18.00	7.73	3.86	0.75	80.00
	86	750	2	85.00	0.78	23.00	9.81	5.29	0.80	81.00
	115	550	2	85.00	0.78	22.00	9.28	5.00	0.80	81.00
	173	475	2	85.00	0.78	27.00	10.77	6.17	0.83	83.00
	230	400	2	85.00	0.78	32.00	11.58	6.71	0.83	84.00
IQ91	21	1500	4	75.00	0.88	18.00	10.13	3.83	0.65	70.00
	29	1500	4	75.00	0.88	19.50	11.52	4.75	0.68	73.00
	43	1250	4	75.00	0.88	20.50	12.20	5.32	0.70	75.00
	57	1000	2	135.00	0.82	24.00	11.90	5.14	0.65	80.00
	86	1000	2	135.00	0.82	30.00	15.02	7.05	0.68	83.00
	115	750	2	135.00	0.82	29.00	14.52	6.81	0.68	83.00
IQ95	173	640	2	135.00	0.82	34.00	16.33	8.31	0.72	85.00
	230	540	2	135.00	0.82	42.00	16.04	9.06	0.79	86.00
IQ99	173	1000	2	217.00	0.59	57.00	27.88	12.98	0.70	80.00
	230	1000	2				apply			
IQ95	29	2200	4	85.00	0.86	30.00	12.35	6.97	0.79	86.00

All data is approximate

IQ New Generation - Motor Data

575 3 Phase 60Hz

ACTUATOR	TORQUE		MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE (NOMINAL) LOAD			
	(Rated lbs.ft.)			Amps	P.F.		Amps	Kw	P.F.	Effy.%
IQ10										
	21	25	4	1.51	0.83	0.44	0.32	0.06	0.35	58.00
	29	25	4	1.95	0.83	0.51	0.40	0.08	0.44	45.00
	43	25	4	1.95	0.83	0.58	0.43	0.11	0.46	54.00
	57	25	4	2.59	0.85	0.80	0.70	0.13	0.41	45.00
	86	25	4	3.25	0.87	1.40	0.69	0.18	0.44	58.00
115	25	4	3.88	0.81	1.30	0.83	0.23	0.50	55.00	
IQ12										
	21	60	4	3.88	0.81	0.88	0.56	0.15	0.50	55.00
	29	60	4	3.88	0.81	1.02	0.69	0.19	0.50	55.00
	43	60	4	3.88	0.81	1.40	0.93	0.26	0.50	55.00
	57	50	4	5.26	0.81	1.55	1.29	0.26	0.40	50.00
	86	35	4	3.88	0.81	1.40	0.90	0.25	0.50	55.00
115	30	4	5.26	0.81	1.55	1.37	0.27	0.40	50.00	
IQ18										
	21	80	4	3.88	0.81	1.10	0.75	0.20	0.50	55.00
29	80	4	5.26	0.81	1.55	1.27	0.25	0.40	50.00	
IQ20										
	21	150	4	8.32	0.83	2.50	1.46	0.38	0.47	56.00
	29	150	4	8.32	0.83	2.85	1.81	0.48	0.47	56.00
	43	150	4	10.90	0.76	3.00	1.62	0.64	0.50	79.00
	57	150	4	10.90	0.76	3.60	1.63	0.77	0.60	79.00
	86	130	4	15.50	0.83	3.75	3.25	0.92	0.45	63.00
115	105	4	15.50	0.83	3.80	3.38	0.95	0.45	63.00	
173	75	4	15.50	0.83	3.83	3.45	0.97	0.45	63.00	
IQ25										
	21	295	4	15.50	0.83	3.10	2.67	0.75	0.45	63.00
	29	295	4	15.50	0.83	3.80	3.31	0.93	0.45	63.00
	43	220	4	15.50	0.83	3.80	3.32	0.94	0.45	63.00
	57	180	4	15.50	0.83	3.75	3.28	0.93	0.45	63.00
	86	180	2	17.76	0.84	4.60	2.12	1.27	0.75	80.00
115	170	2	17.76	0.84	5.20	2.58	1.54	0.75	80.00	
173	110	2	17.76	0.84	4.90	2.39	1.43	0.75	80.00	
IQ35										
	21	450	4	20.60	0.87	5.50	2.63	1.15	0.61	72.00
	29	450	4	20.60	0.87	6.30	3.26	1.43	0.61	72.00
	43	400	4	25.98	0.87	8.90	3.35	1.70	0.68	75.00
	57	350	2	30.40	0.83	8.00	2.59	1.80	0.85	82.00
	86	350	2	38.23	0.88	12.00	3.44	2.47	0.89	81.00
115	270	2	38.23	0.88	12.00	3.42	2.45	0.89	81.00	
173	190	2	38.23	0.88	12.00	3.44	2.47	0.89	81.00	
IQ40										
	21	750	4				apply			
	29	750	4				apply			
	43	625	4	44.00	0.74	11.40	4.14	2.66	0.76	85.00
	57	500	2	55.00	0.74	9.80	3.98	2.57	0.81	80.00
	86	500	2	55.00	0.74	14.00	5.26	3.52	0.82	82.00
115	400	2	55.00	0.74	14.50	5.43	3.63	0.82	82.00	
173	300	2	55.00	0.74	16.00	5.81	3.89	0.82	82.00	
IQ70										
	21	1100	4	59.00	0.73	12.00	5.17	2.81	0.70	78.00
	29	1100	4	59.00	0.73	14.20	5.83	3.49	0.75	80.00
	43	950	2	85.00	0.90	18.00	7.74	4.05	0.70	75.00
	57	750	2	85.00	0.90	18.00	7.38	3.86	0.70	75.00
	86	750	2	85.00	0.90	22.00	9.58	5.29	0.72	77.00
115	550	2	85.00	0.90	21.00	9.05	5.00	0.72	77.00	
173	475	2	85.00	0.90	24.00	10.45	6.17	0.75	79.00	
230	400	2	85.00	0.90	28.00	10.94	6.71	0.77	80.00	
IQ90										
	21	1500	4	71.00	0.70	15.00	6.87	3.83	0.70	80.00
	29	1500	4	71.00	0.70	19.00	8.19	4.75	0.72	81.00
	43	1250	4	71.00	0.70	23.00	9.05	5.32	0.72	82.00
	57	1000	2				apply			
	86	1000	2				apply			
115	750	2				apply				
173	640	2				apply				
230	540	2				apply				
IQ91										
	173	1000	2				apply			
230	1000	2				apply				
IQ95										
	29	2200	4				apply			

All data is approximate

IQ New Generation - Motor Data

600**3 Phase 60Hz**

ACTUATOR	TORQUE	MOTOR	LOCKED ROTOR		RATED	AVERAGE (NOMINAL) LOAD				
	(Rated lbs.ft.)		Poles	Amps		P.F.	Amps	Kw	P.F.	Effy.%
IQ10	21	25	4	1.57	0.83	0.37	0.30	0.06	0.35	58.00
	29	25	4	1.57	0.83	0.40	0.33	0.08	0.51	45.00
	43	25	4	2.03	0.83	0.50	0.37	0.11	0.48	57.00
	57	25	4	2.03	0.83	0.60	0.45	0.13	0.48	57.00
	86	25	4	3.38	0.87	0.80	0.58	0.18	0.50	58.00
	115	25	4	4.05	0.81	1.30	0.71	0.23	0.51	60.00
IQ12	21	60	4	3.38	0.87	0.85	0.51	0.15	0.50	58.00
	29	60	4	4.05	0.81	1.00	0.47	0.19	0.60	65.00
	43	60	4	4.05	0.81	1.30	0.63	0.26	0.60	65.00
	57	50	4	4.05	0.81	1.30	0.86	0.26	0.48	60.00
	86	35	4	4.05	0.81	1.30	0.86	0.25	0.47	59.00
	115	30	4	4.05	0.81	1.40	0.88	0.27	0.49	61.00
IQ18	21	80	4	4.05	0.81	1.10	0.86	0.20	0.44	52.00
	29	80	4	4.05	0.81	1.30	0.74	0.25	0.48	69.00
IQ20	21	150	4	8.69	0.83	2.00	1.68	0.38	0.43	51.00
	29	150	4	8.69	0.83	2.30	1.74	0.48	0.47	56.00
	43	150	4	8.88	0.85	2.30	1.86	0.64	0.55	60.00
	57	150	4	13.20	0.82	3.10	2.33	0.77	0.54	59.00
	86	130	4	13.20	0.86	3.30	2.15	0.92	0.65	63.00
	115	105	4	13.20	0.86	3.35	2.24	0.95	0.65	63.00
	173	75	4	13.20	0.86	3.40	2.29	0.97	0.65	63.00
IQ25	21	295	4	13.20	0.86	3.00	1.77	0.75	0.65	63.00
	29	295	4	13.20	0.86	3.30	2.20	0.93	0.65	63.00
	43	220	4	13.20	0.86	3.30	2.20	0.94	0.65	63.00
	57	180	4	13.20	0.86	3.30	2.18	0.93	0.65	63.00
	86	180	2	18.60	0.84	5.70	2.46	1.27	0.62	80.00
	115	170	2	18.60	0.84	6.60	3.00	1.54	0.62	80.00
	173	110	2	18.60	0.84	6.20	2.77	1.43	0.62	80.00
IQ35	21	450	4	18.00	0.85	5.50	2.52	1.15	0.61	72.00
	29	450	4	21.60	0.85	6.10	3.07	1.43	0.62	72.00
	43	400	4	21.60	0.85	7.20	3.21	1.70	0.68	75.00
	57	350	2	26.40	0.83	7.30	2.49	1.80	0.85	82.00
	86	350	2	40.80	0.82	11.00	3.29	2.47	0.89	81.00
	115	270	2	31.40	0.82	10.80	3.27	2.45	0.89	81.00
	173	190	2	31.40	0.82	10.80	3.29	2.47	0.89	81.00
IQ40	21	750	4	40.00	0.80	7.50	5.30	1.92	0.47	74.00
	29	750	4	40.00	0.80	9.50	5.47	2.38	0.55	76.00
	43	625	4				apply			
	57	500	2	55.00	0.78	9.00	4.67	2.57	0.68	78.00
	86	500	2	55.00	0.78	13.00	5.89	3.52	0.72	80.00
	115	400	2	55.00	0.78	13.25	5.62	3.63	0.75	83.00
	173	300	2	55.00	0.78	13.50	5.65	3.89	0.78	85.00
IQ70	21	1100	4	52.00	0.78	10.70	6.44	2.81	0.60	70.00
	29	1100	4	52.00	0.78	13.00	6.88	3.49	0.65	75.00
	43	950	2				apply			
	57	750	2				apply			
	86	750	2				apply			
	115	550	2				apply			
	173	475	2				apply			
	230	400	2				apply			
IQ90	21	1500	4	63.00	0.78	15.00	8.60	3.83	0.55	78.00
	29	1500	4	63.00	0.78	19.00	8.80	4.75	0.65	80.00
	43	1250	4	63.00	0.78	21.00	8.92	5.32	0.70	82.00
	57	1000	2	100.00	0.98	20.00	11.78	5.14	0.60	70.00
	86	1000	2	100.00	0.98	25.00	14.75	7.05	0.63	73.00
	115	750	2	100.00	0.98	25.00	14.26	6.81	0.63	73.00
	173	640	2	100.00	0.98	30.00	14.27	8.31	0.70	80.00
	230	540	2	100.00	0.98	31.00	13.67	9.06	0.75	85.00
IQ91	173	1000	2				apply			
	230	1000	2				apply			
IQ95	29	2200	4	63.00	0.78	30.00	9.51	6.97	0.83	85.00

All data is approximate

IQ New Generation - Motor Data

200 3 Phase 50Hz

ACTUATOR		TORQUE (Rated lbs.ft.)	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE (NOMINAL) LOAD			
				Amps	P.F.		Amps	Kw	P.F.	Effy.%
IQ10	18	25	4	3.86	0.85	0.94	0.77	0.05	0.35	57.00
	24	25	4	3.86	0.85	1.00	0.91	0.07	0.35	60.00
	36	25	4	4.82	0.85	1.40	1.16	0.09	0.40	55.00
	48	25	4	4.82	0.85	1.50	1.34	0.11	0.42	55.00
	72	25	4	5.78	0.85	1.99	1.14	0.15	0.53	70.00
	96	25	4	7.69	0.85	2.58	1.70	0.19	0.51	63.00
IQ12	18	60	4	7.69	0.85	1.73	1.13	0.13	0.50	65.00
	24	60	4	7.69	0.85	2.22	1.70	0.16	0.44	61.00
	36	60	4	9.93	0.85	3.28	2.83	0.21	0.41	53.00
	48	50	4	9.93	0.85	3.28	2.85	0.21	0.41	53.00
	72	35	4	9.93	0.85	3.24	2.73	0.21	0.41	53.00
	96	30	4	9.93	0.85	3.39	3.00	0.23	0.41	53.00
IQ18	18	80	4	9.93	0.85	2.89	2.59	0.17	0.38	50.00
	24	80	4	9.93	0.85	3.28	2.80	0.21	0.41	53.00
IQ20	18	150	4	15.00	0.81	6.00	4.60	0.32	0.40	50.00
	24	150	4	16.00	0.84	5.70	4.62	0.40	0.45	55.00
	36	150	4	18.12	0.85	5.28	5.42	0.53	0.45	63.00
	48	150	4	18.12	0.85	6.21	5.71	0.64	0.50	65.00
	72	130	4	26.99	0.83	7.90	6.17	0.76	0.55	65.00
	96	105	4	26.99	0.83	8.29	6.42	0.80	0.55	65.00
	144	75	4	26.99	0.83	8.29	6.55	0.81	0.55	65.00
IQ25	18	295	4	25.00	0.84	12.00	6.30	0.63	0.40	60.00
	24	295	4	25.00	0.84	14.00	6.30	0.78	0.44	60.00
	36	220	4	26.99	0.83	8.10	6.30	0.78	0.55	65.00
	48	180	4	26.99	0.83	8.10	6.23	0.77	0.55	65.00
	72	180	2	42.41	0.82	10.22	4.79	1.06	0.75	85.00
	96	170	2	42.41	0.82	15.33	5.83	1.29	0.75	85.00
	144	110	2	42.41	0.82	13.49	5.39	1.19	0.75	85.00
IQ35	18	450	4	38.55	0.85	8.67	5.57	0.96	0.70	71.00
	24	450	4	51.08	0.87	10.22	7.13	1.19	0.65	74.00
	36	400	4	51.08	0.87	12.72	8.41	1.42	0.65	75.00
	48	350	2	78.07	0.80	18.00	6.79	1.50	0.85	75.00
	72	350	2	78.07	0.80	20.43	9.30	2.06	0.85	75.00
	96	270	2	78.07	0.80	20.43	9.26	2.04	0.85	75.00
	144	190	2	78.07	0.80	20.43	9.30	2.06	0.85	75.00
IQ40	18	750	4	84.00	0.90	20.00	12.81	1.60	0.45	80.00
	24	750	4	84.00	0.90	22.00	14.59	1.98	0.49	80.00
	36	625	4	84.00	0.90	23.00	16.01	2.22	0.50	80.00
	48	500	2	140.00	0.90	30.00	14.70	2.14	0.69	61.00
	72	500	2	140.00	0.90	34.00	18.12	2.94	0.72	65.00
	96	400	2	140.00	0.90	36.00	18.68	3.03	0.72	65.00
	144	300	2	140.00	0.90	38.00	19.00	3.24	0.72	65.00
IQ70	18	1100	4	120.00	0.88	23.00	17.34	2.34	0.60	65.00
	24	1100	4	120.00	0.88	26.00	17.00	2.91	0.65	70.00
	36	950	2	166.00	0.78	36.00	16.22	3.37	0.75	80.00
	48	750	2	166.00	0.78	36.00	15.47	3.21	0.75	80.00
	72	750	2	166.00	0.78	46.00	19.63	4.41	0.80	81.00
	96	550	2	166.00	0.78	45.00	18.55	4.16	0.80	81.00
	144	475	2	166.00	0.78	55.00	21.53	5.14	0.83	83.00
	192	400	2	166.00	0.78	65.00	23.10	5.59	0.83	84.00
IQ90	18	1500	4				apply			
	24	1500	4				apply			
	36	1250	4				apply			
	48	1000	2				not available at 200-3-50			
	72	1000	2				not available at 200-3-50			
	96	750	2				not available at 200-3-50			
	144	640	2				not available at 200-3-50			
IQ95	192	540	2				not available at 200-3-50			
	24	2200	4	170.00	0.86	60.00	24.69	5.81	0.79	86.00

IQ 91 not available at 200-3-50

All data is approximate

IQ New Generation - Motor Data

220 3 Phase 50Hz

ACTUATOR		TORQUE (Rated lbs.ft.)	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE (NOMINAL) LOAD			
				Amps	P.F.		Amps	Kw	P.F.	Effy.%
IQ10	18	25	4	2.90	0.83	1.00	0.67	0.05	0.36	58.00
	24	25	4	2.90	0.83	1.00	0.76	0.07	0.38	60.00
	36	25	4	4.70	0.87	1.20	1.02	0.09	0.38	60.00
	48	25	4	4.70	0.87	1.36	1.01	0.11	0.45	62.00
	72	25	4	6.40	0.82	1.86	1.26	0.15	0.51	60.00
	96	25	4	8.44	0.83	2.84	1.60	0.19	0.44	52.00
IQ12	18	60	4	6.40	0.82	1.76	1.10	0.13	0.51	60.00
	24	60	4	6.40	0.82	2.04	1.07	0.16	0.60	65.00
	36	60	4	8.44	0.83	3.04	1.94	0.21	0.48	60.00
	48	50	4	8.44	0.83	3.04	1.95	0.21	0.48	60.00
	72	35	4	8.44	0.83	3.00	1.95	0.21	0.47	59.00
	96	30	4	8.44	0.83	3.10	1.99	0.23	0.49	61.00
IQ18	18	80	4	8.44	0.83	2.60	1.95	0.17	0.44	52.00
	24	80	4	8.44	0.83	3.02	1.67	0.21	0.48	69.00
IQ20	18	150	4	15.60	0.84	4.80	3.82	0.32	0.43	51.00
	24	150	4	15.60	0.84	5.70	3.95	0.40	0.47	56.00
	36	150	4	17.00	0.84	7.40	4.23	0.53	0.55	60.00
	48	150	4	20.40	0.86	6.20	5.30	0.64	0.54	59.00
	72	130	4	30.00	0.85	7.50	6.00	0.76	0.45	63.00
	96	105	4	30.00	0.85	7.60	6.00	0.80	0.45	63.00
	144	75	4	30.00	0.85	7.66	6.00	0.81	0.45	63.00
IQ25	18	295	4	30.00	0.85	7.40	5.70	0.63	0.40	60.00
	24	295	4	30.00	0.85	7.60	5.70	0.78	0.45	60.00
	36	220	4	30.00	0.85	7.60	5.70	0.78	0.45	60.00
	48	180	4	30.00	0.85	7.50	5.70	0.77	0.45	60.00
	72	180	2	44.00	0.85	11.40	5.30	1.06	0.62	80.00
	96	170	2	44.00	0.85	13.20	5.30	1.29	0.62	80.00
	144	110	2	44.00	0.85	12.40	5.30	1.19	0.62	80.00
IQ35	18	450	4	33.00	0.85	11.00	5.73	0.96	0.61	72.00
	24	450	4	42.00	0.85	14.00	6.12	1.19	0.68	75.00
	36	400	4	42.00	0.85	17.80	7.31	1.42	0.68	75.00
	48	350	2	65.80	0.82	16.00	5.65	1.50	0.85	82.00
	72	350	2	65.80	0.82	24.00	7.48	2.06	0.89	81.00
	96	270	2	65.80	0.82	24.00	7.44	2.04	0.89	81.00
	144	190	2	65.80	0.82	24.00	7.48	2.06	0.89	81.00
IQ40	18	750	4				apply			
	24	750	4				apply			
	36	625	4				apply			
	48	500	2	140.00	0.90	30.00	13.36	2.14	0.69	61.00
	72	500	2	140.00	0.90	34.00	16.47	2.94	0.72	65.00
	96	400	2	140.00	0.90	36.00	16.98	3.03	0.72	65.00
IQ70	144	300	2	140.00	0.90	38.00	18.00	3.24	0.72	65.00
	18	1100	4				apply			
	24	1100	4				apply			
	36	950	2	166.00	0.78	36.00	14.75	3.37	0.75	80.00
	48	750	2	166.00	0.78	36.00	14.06	3.21	0.75	80.00
	72	750	2	166.00	0.78	46.00	17.84	4.41	0.80	81.00
	96	550	2	166.00	0.78	45.00	16.87	4.16	0.80	81.00
	144	475	2	166.00	0.78	55.00	19.57	5.14	0.83	83.00
IQ90	192	400	2	166.00	0.78	65.00	21.05	5.59	0.83	84.00
	18	1500	4				apply			
	24	1500	4				apply			
	36	1250	4				apply			
	48	1000	2				not available at 220-3-50			
	72	1000	2				not available at 220-3-50			
	96	750	2				not available at 220-3-50			
IQ95	144	640	2				not available at 220-3-50			
	192	540	2				not available at 220-3-50			
	24	2200	4				apply			

IQ91 not available at 220-3-50

All data is approximate

IQ New Generation - Motor Data

240 3 Phase 50Hz

ACTUATOR		TORQUE (Rated lbs.ft.)	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE (NOMINAL) LOAD			
				Amps	P.F.		Amps	Kw	P.F.	Effy.%
IQ10	18	25	4	2.60	0.83	0.74	0.61	0.05	0.36	58.00
	24	25	4	2.90	0.83	1.00	0.70	0.07	0.38	60.00
	36	25	4	2.90	0.87	1.00	0.94	0.09	0.38	60.00
	48	25	4	4.70	0.87	1.36	0.92	0.11	0.45	62.00
	72	25	4	5.20	0.85	1.60	1.22	0.15	0.50	58.00
	96	25	4	6.60	0.82	2.60	1.49	0.19	0.51	60.00
IQ12	18	60	4	6.40	0.82	1.76	1.00	0.13	0.51	60.00
	24	60	4	6.40	0.82	2.04	0.98	0.16	0.60	65.00
	36	60	4	6.40	0.82	2.60	1.31	0.21	0.60	65.00
	48	50	4	8.44	0.83	3.04	1.79	0.21	0.48	60.00
	72	35	4	8.44	0.83	3.00	1.78	0.21	0.47	59.00
	96	30	4	8.44	0.83	3.10	1.83	0.23	0.49	61.00
IQ18	18	80	4	6.60	0.82	2.20	1.79	0.17	0.44	52.00
	24	80	4	8.44	0.83	3.02	1.53	0.21	0.48	69.00
IQ20	18	150	4	14.40	0.83	4.00	3.50	0.32	0.43	51.00
	24	150	4	14.40	0.83	4.60	3.62	0.40	0.47	56.00
	36	150	4	18.00	0.82	7.40	3.88	0.53	0.55	60.00
	48	150	4	18.00	0.82	6.20	4.85	0.64	0.54	59.00
	72	130	4	22.00	0.86	6.60	6.48	0.76	0.45	63.00
	96	105	4	22.00	0.86	6.70	6.75	0.80	0.45	63.00
	144	75	4	30.00	0.86	6.80	6.88	0.81	0.45	63.00
IQ25	18	295	4	22.00	0.86	6.00	6.30	0.63	0.40	60.00
	24	295	4	22.00	0.86	6.60	6.94	0.78	0.45	60.00
	36	220	4	22.00	0.86	6.60	6.96	0.78	0.45	60.00
	48	180	4	22.00	0.86	6.60	6.87	0.77	0.45	60.00
	72	180	2	31.00	0.84	11.40	5.13	1.06	0.62	80.00
	96	170	2	31.00	0.84	13.20	6.24	1.29	0.62	80.00
	144	110	2	31.00	0.84	12.40	5.77	1.19	0.62	80.00
IQ35	18	450	4	33.00	0.85	11.00	5.25	0.96	0.61	72.00
	24	450	4	33.00	0.85	12.20	6.41	1.19	0.62	72.00
	36	400	4	42.00	0.85	17.80	6.70	1.42	0.68	75.00
	48	350	2	49.00	0.83	16.00	5.18	1.50	0.85	82.00
	72	350	2	65.80	0.82	24.00	6.86	2.06	0.89	81.00
	96	270	2	65.80	0.82	24.00	6.82	2.04	0.89	81.00
	144	190	2	65.80	0.82	24.00	6.86	2.06	0.89	81.00
IQ40	18	750	4				apply			
	24	750	4				apply			
	36	625	4				apply			
	48	500	2				apply			
	72	500	2				apply			
	96	400	2				apply			
IQ70	144	300	2				apply			
	18	1100	4				apply			
	24	1100	4				apply			
	36	950	2				apply			
	48	750	2				apply			
	72	750	2				apply			
	96	550	2				apply			
IQ90	144	475	2				apply			
	192	400	2				apply			
	18	1500	4				apply			
	24	1500	4				apply			
	36	1250	4				apply			
	48	1000	2				not available at 240-3-50			
	72	1000	2				not available at 240-3-50			
IQ95	96	750	2				not available at 240-3-50			
	144	640	2				not available at 240-3-50			
	192	540	2				not available at 240-3-50			
	24	2200	4				apply			

IQ91 not available at 240-3-50

IQ New Generation - Motor Data

380 3 Phase 50Hz

ACTUATOR	ACTUATOR lbs.ft.	MOTOR Poles	LOCKED ROTOR Amps	P.Factor	RATED Amps	AVERAGE Amps	Nominal Kw	AVERAGE LOAD P.Factor	Effy.%
IQ10	18	25	4	1.80	0.84	0.52	0.41	0.05	57.00
	24	25	4	1.80	0.84	0.60	0.48	0.07	60.00
	36	25	4	2.20	0.86	0.75	0.58	0.09	55.00
	48	25	4	2.50	0.86	1.00	0.85	0.11	55.00
	72	25	4	3.00	0.83	1.10	0.60	0.15	70.00
	96	25	4	4.65	0.82	1.50	0.90	0.19	53.00
IQ12	18	60	4	4.65	0.82	1.20	0.86	0.13	50.00
	24	60	4	4.65	0.82	1.30	0.91	0.16	53.00
	36	60	4	4.65	0.82	1.70	1.07	0.21	55.00
	48	50	4	4.65	0.82	1.70	1.08	0.21	55.00
	72	35	4	4.65	0.82	1.68	1.03	0.21	55.00
	96	30	4	4.65	0.82	1.76	1.14	0.23	55.00
IQ18	18	80	4	4.65	0.82	1.50	0.98	0.17	53.00
	24	80	4	6.00	0.82	1.75	1.50	0.21	50.00
IQ20	18	150	4	9.25	0.85	2.70	2.10	0.32	55.00
	24	150	4	9.25	0.85	3.00	2.16	0.40	62.00
	36	150	4	9.40	0.85	3.20	2.85	0.53	63.00
	48	150	4	12.00	0.85	3.70	3.26	0.64	60.00
	72	130	4	16.50	0.83	5.90	3.50	0.76	58.00
	96	105	4	16.50	0.83	6.00	3.50	0.80	58.00
	144	75	4	16.50	0.83	6.10	3.50	0.81	58.00
IQ25	18	295	4	16.50	0.83	5.30	3.30	0.63	58.00
	24	295	4	16.50	0.83	5.90	3.30	0.78	58.00
	36	220	4	16.50	0.83	6.00	3.30	0.78	58.00
	48	180	4	16.50	0.83	5.90	3.30	0.77	58.00
	72	180	2	25.00	0.82	5.70	2.52	1.06	85.00
	96	170	2	25.00	0.82	7.20	3.07	1.29	85.00
	144	110	2	25.00	0.82	6.30	2.84	1.19	85.00
IQ35	18	450	4	26.50	0.87	5.00	3.03	0.96	74.00
	24	450	4	26.50	0.87	5.90	3.75	1.19	74.00
	36	400	4	28.00	0.87	9.00	4.40	1.42	68.00
	48	350	2	37.00	0.80	9.30	3.61	1.50	77.00
	72	350	2	40.50	0.90	12.00	4.23	2.06	84.00
	96	270	2	40.50	0.80	10.60	4.87	2.04	75.00
	144	190	2	40.50	0.80	10.60	4.90	2.06	75.00
IQ40	18	750	4	40.00	0.84	10.50	6.74	1.60	80.00
	24	750	4	40.00	0.84	11.00	7.68	1.98	80.00
	36	625	4	48.00	0.86	14.00	8.00	2.22	55.00
	48	500	2	70.00	0.90	15.00	7.74	2.14	61.00
	72	500	2	70.00	0.90	17.00	9.54	2.94	65.00
	96	400	2	70.00	0.90	18.00	9.83	3.03	65.00
	144	300	2	70.00	0.90	19.00	10.10	3.24	65.00
IQ70	18	1100	4	64.00	0.87	14.00	6.42	2.34	77.00
	24	1100	4	64.00	0.87	16.00	7.46	2.91	80.00
	36	950	2	85.00	0.78	18.00	8.54	3.37	80.00
	48	750	2	85.00	0.78	18.00	8.14	3.21	80.00
	72	750	2	85.00	0.78	23.00	10.33	4.41	81.00
	96	550	2	85.00	0.78	22.00	9.76	4.16	81.00
	144	475	2	85.00	0.78	27.00	11.33	5.14	83.00
IQ90	18	1500	4	75.00	0.88	18.00	10.67	3.19	70.00
	24	1500	4	75.00	0.88	19.50	12.13	3.96	73.00
	36	1250	4	75.00	0.88	20.50	12.84	4.44	75.00
	48	1000	2	135.00	0.82	24.00	12.52	4.29	80.00
	72	1000	2	135.00	0.82	30.00	15.81	5.87	83.00
	96	750	2	135.00	0.82	29.00	15.29	5.68	83.00
	144	640	2	135.00	0.82	34.00	17.19	6.92	85.00
IQ91	18	540	2	135.00	0.82	42.00	16.88	7.55	86.00
	144	1000	2	230.00	0.85	58.00	29.35	10.82	80.00
IQ95	18	1000	2	230.00	0.85	75.00	37.93	13.98	80.00
	24	2200	4	80.00	0.86	35.00	12.99	5.81	86.00

All data is approximate

IQ New Generation - Motor Data

400 3 Phase 50Hz

ACTUATOR	ACTUATOR lbs.ft.	MOTOR Poles	LOCKED ROTOR Amps	P.Factor	RATED Amps	AVERAGE Amps	Nominal Kw	AVERAGE LOAD P.Factor	Effy.%
IQ10	18	25	4	2.00	0.85	0.49	0.39	0.05	57.00
	24	25	4	2.00	0.85	0.52	0.45	0.07	60.00
	36	25	4	2.50	0.86	0.75	0.55	0.09	55.00
	48	25	4	2.50	0.86	0.78	0.67	0.11	55.00
	72	25	4	3.00	0.81	1.03	0.57	0.15	70.00
	96	25	4	3.99	0.82	1.34	0.85	0.19	63.00
IQ12	18	60	4	3.99	0.82	1.00	0.77	0.13	60.00
	24	60	4	3.99	0.82	1.15	0.85	0.16	61.00
	36	60	4	5.15	0.83	1.70	1.41	0.21	53.00
	48	50	4	5.15	0.83	1.70	1.42	0.21	53.00
	72	35	4	5.15	0.83	1.68	1.37	0.21	53.00
	96	30	4	5.15	0.83	1.76	1.50	0.23	53.00
IQ18	18	80	4	5.15	0.83	1.50	1.29	0.17	50.00
	24	80	4	5.15	0.83	1.70	1.40	0.21	53.00
IQ20	18	150	4	9.00	0.81	3.00	2.30	0.32	50.00
	24	150	4	7.00	0.85	2.40	2.31	0.40	55.00
	36	150	4	9.40	0.85	2.74	2.71	0.53	63.00
	48	150	4	9.40	0.85	3.22	2.86	0.64	65.00
	72	130	4	14.00	0.83	4.10	3.08	0.76	65.00
	96	105	4	14.00	0.83	4.30	3.21	0.80	65.00
	144	75	4	14.00	0.83	4.30	3.28	0.81	65.00
IQ25	18	295	4	14.00	0.84	6.00	3.20	0.63	50.00
	24	295	4	14.00	0.84	7.00	3.20	0.78	50.00
	36	220	4	14.00	0.83	4.20	3.15	0.78	65.00
	48	180	4	14.00	0.83	4.20	3.11	0.77	65.00
	72	180	2	22.00	0.82	5.30	2.39	1.06	85.00
	96	170	2	22.00	0.82	7.95	2.90	1.29	85.00
	144	110	2	22.00	0.82	7.00	2.69	1.19	85.00
IQ35	18	450	4	20.00	0.85	4.50	2.78	0.96	71.00
	24	450	4	26.50	0.87	5.90	3.57	1.19	74.00
	36	400	4	26.50	0.87	6.60	4.20	1.42	75.00
	48	350	2	40.50	0.80	9.00	3.40	1.50	75.00
	72	350	2	40.50	0.80	10.60	4.66	2.06	75.00
	96	270	2	40.50	0.80	10.60	4.63	2.04	75.00
	144	190	2	40.50	0.80	10.60	4.65	2.06	75.00
IQ40	18	750	4	42.00	0.90	10.00	6.40	1.60	80.00
	24	750	4	42.00	0.90	11.00	7.29	1.98	80.00
	36	625	4	42.00	0.90	12.00	8.00	2.22	80.00
	48	500	2	70.00	0.90	15.00	7.35	2.14	61.00
	72	500	2	70.00	0.90	17.00	9.06	2.94	65.00
	96	400	2	70.00	0.90	18.00	9.34	3.03	65.00
	144	300	2	70.00	0.90	19.00	10.01	3.24	65.00
IQ70	18	1100	4	60.00	0.88	13.00	8.67	2.34	65.00
	24	1100	4	60.00	0.88	14.00	8.80	2.91	70.00
	36	950	2	85.00	0.78	18.00	8.11	3.37	80.00
	48	750	2	85.00	0.78	18.00	7.73	3.21	80.00
	72	750	2	85.00	0.78	23.00	9.81	4.41	81.00
	96	550	2	85.00	0.78	22.00	9.28	4.16	81.00
	144	475	2	85.00	0.78	27.00	10.77	5.14	83.00
	192	400	2	85.00	0.78	32.00	11.58	5.59	84.00
IQ90	18	1500	4	75.00	0.88	18.00	10.13	3.19	70.00
	24	1500	4	75.00	0.88	19.50	11.52	3.96	73.00
	36	1250	4	75.00	0.88	20.50	12.20	4.44	75.00
	48	1000	2	135.00	0.82	24.00	11.90	4.29	80.00
	72	1000	2	135.00	0.82	30.00	15.02	5.87	83.00
	96	750	2	135.00	0.82	29.00	14.52	5.68	83.00
	144	640	2	135.00	0.82	34.00	16.33	6.92	85.00
	192	540	2	135.00	0.82	42.00	16.04	7.55	86.00
IQ91	144	1000	2	217.00	0.59	57.00	27.88	10.82	80.00
	192	1000	2			apply			
IQ95	24	2200	4	85.00	0.86	30.00	12.35	5.81	86.00

All data is approximate

IQ New Generation - Motor Data

415 3 Phase 50Hz

ACTUATOR	ACTUATOR lbs.ft.	MOTOR Poles	LOCKED ROTOR Amps	P.Factor	RATED Amps	AVERAGE Amps	Nominal Kw	AVERAGE LOAD P.Factor	Effy.%
IQ10	18	25	4	1.36	0.85	0.49	0.37	0.05	57.00
	24	25	4	2.00	0.85	0.52	0.44	0.07	60.00
	36	25	4	2.00	0.85	0.60	0.52	0.09	62.00
	48	25	4	2.50	0.86	0.78	0.65	0.11	55.00
	72	25	4	3.00	0.81	1.03	0.55	0.15	70.00
	96	25	4	3.99	0.82	1.34	0.80	0.19	63.00
IQ12	18	60	4	3.00	0.81	0.90	0.55	0.13	65.00
	24	60	4	3.99	0.82	1.15	0.82	0.16	61.00
	36	60	4	3.99	0.82	1.50	0.90	0.21	63.00
	48	50	4	5.15	0.83	1.70	1.37	0.21	53.00
	72	35	4	5.15	0.83	1.68	1.32	0.21	53.00
	96	30	4	5.15	0.83	1.76	1.45	0.23	53.00
IQ18	18	80	4	5.15	0.83	1.50	1.25	0.17	50.00
	24	80	4	5.15	0.83	1.70	1.35	0.21	53.00
IQ20	18	150	4	6.60	0.85	2.40	2.20	0.32	50.00
	24	150	4	7.00	0.85	2.40	2.23	0.40	55.00
	36	150	4	9.40	0.85	2.74	2.61	0.53	63.00
	48	150	4	9.40	0.85	3.22	2.75	0.64	65.00
	72	130	4	14.00	0.83	4.10	2.97	0.76	65.00
	96	105	4	14.00	0.83	4.30	3.09	0.80	65.00
	144	75	4	14.00	0.83	4.30	3.16	0.81	65.00
IQ25	18	295	4	14.00	0.83	4.00	2.67	0.63	63.00
	24	295	4	14.00	0.84	7.00	3.00	0.78	50.00
	36	220	4	14.00	0.83	4.20	3.00	0.78	65.00
	48	180	4	14.00	0.83	4.20	3.00	0.77	65.00
	72	180	2	22.00	0.82	5.30	2.31	1.06	85.00
	96	170	2	22.00	0.82	7.95	2.81	1.29	85.00
	144	110	2	22.00	0.82	7.00	2.60	1.19	85.00
IQ35	18	450	4	20.00	0.85	4.50	2.68	0.96	71.00
	24	450	4	26.50	0.85	6.00	3.39	1.19	75.00
	36	400	4	26.50	0.87	6.60	4.05	1.42	75.00
	48	350	2	31.40	0.82	7.60	3.26	1.50	80.00
	72	350	2	40.50	0.80	10.60	4.49	2.06	75.00
	96	270	2	40.50	0.80	10.60	4.46	2.04	75.00
	144	190	2	40.50	0.80	10.60	4.49	2.06	75.00
IQ40	18	750	4	36.00	0.92	8.50	3.61	1.60	77.00
	24	750	4	36.00	0.92	10.50	4.21	1.98	77.00
	36	625	4	36.00	0.92	13.00	4.55	2.22	78.00
	48	500	2	65.00	0.91	14.00	6.55	2.14	65.00
	72	500	2	70.00	0.90	17.00	8.73	2.94	65.00
	96	400	2	70.00	0.90	18.00	9.00	3.03	65.00
	144	300	2	70.00	0.90	19.00	9.65	3.24	65.00
IQ70	18	1100	4	55.00	0.86	12.00	7.80	2.34	76.00
	24	1100	4	55.00	0.86	16.00	8.42	2.91	80.00
	36	950	2	85.00	0.78	18.00	7.82	3.37	80.00
	48	750	2	85.00	0.78	18.00	7.45	3.21	80.00
	72	750	2	85.00	0.78	23.00	9.46	4.41	81.00
	96	550	2	85.00	0.78	22.00	8.94	4.16	81.00
	144	475	2	85.00	0.78	27.00	10.38	5.14	83.00
IQ90	18	1500	4	75.00	0.88	18.00	9.77	3.19	70.00
	24	1500	4	75.00	0.88	19.50	11.10	3.96	73.00
	36	1250	4	75.00	0.88	20.50	11.76	4.44	75.00
	48	1000	2	135.00	0.82	24.00	11.47	4.29	80.00
	72	1000	2	135.00	0.82	30.00	14.48	5.87	83.00
	96	750	2	135.00	0.82	29.00	14.00	5.68	83.00
	144	640	2	135.00	0.82	34.00	15.74	6.92	85.00
IQ91	18	540	2	135.00	0.82	42.00	15.46	7.55	86.00
	144	1000	2	217.00	0.59	57.00	26.87	10.82	80.00
IQ95	192	1000	2			apply			
	24	2200	4	90.00	0.86	32.00	12.68	5.81	85.00

All data is approximate

IQ New Generation - Motor Data

440 3 Phase 50Hz

ACTUATOR	ACTUATOR lbs.ft.	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE Amps	Nominal Kw	AVERAGE LOAD	
			Amps	P.Factor				P.Factor	Effy.%
IQ10	18	25	4	1.45	0.83	0.50	0.33	0.05	58.00
	24	25	4	1.45	0.83	0.50	0.38	0.07	60.00
	36	25	4	2.35	0.87	0.60	0.51	0.09	60.00
	48	25	4	2.35	0.87	0.68	0.50	0.11	62.00
	72	25	4	3.20	0.82	0.93	0.63	0.15	60.00
	96	25	4	4.22	0.83	1.42	1.09	0.19	52.00
IQ12	18	60	4	3.20	0.82	0.88	0.55	0.13	60.00
	24	60	4	3.20	0.82	1.02	0.53	0.16	65.00
	36	60	4	4.22	0.83	1.52	0.97	0.21	60.00
	48	50	4	4.22	0.83	1.52	0.98	0.21	60.00
	72	35	4	4.22	0.83	1.50	0.97	0.21	59.00
	96	30	4	4.22	0.83	1.55	1.00	0.23	61.00
IQ18	18	80	4	4.22	0.83	1.30	0.98	0.17	52.00
	24	80	4	4.22	0.83	1.51	0.84	0.21	69.00
IQ20	18	150	4	7.80	0.84	2.40	1.91	0.32	51.00
	24	150	4	7.80	0.84	2.85	1.98	0.40	56.00
	36	150	4	7.80	0.84	3.70	2.12	0.53	60.00
	48	150	4	10.20	0.86	3.10	2.65	0.64	59.00
	72	130	4	15.00	0.85	3.75	3.53	0.76	63.00
	96	105	4	15.00	0.85	3.80	3.68	0.80	63.00
	144	75	4	15.00	0.85	3.83	3.75	0.81	63.00
IQ25	18	295	4	15.00	0.85	3.70	2.80	0.63	60.00
	24	295	4	15.00	0.85	3.80	2.80	0.78	60.00
	36	220	4	15.00	0.85	3.80	2.80	0.78	60.00
	48	180	4	15.00	0.85	3.75	2.80	0.77	60.00
	72	180	2	22.00	0.85	5.70	2.70	1.06	80.00
	96	170	2	22.00	0.85	6.60	2.70	1.29	80.00
	144	110	2	22.00	0.85	6.20	2.70	1.19	80.00
IQ35	18	450	4	16.50	0.85	5.50	2.86	0.96	72.00
	24	450	4	21.00	0.85	7.00	3.06	1.19	75.00
	36	400	4	21.00	0.85	8.90	3.65	1.42	75.00
	48	350	2	32.90	0.82	8.00	2.82	1.50	82.00
	72	350	2	32.90	0.82	12.00	3.74	2.06	81.00
	96	270	2	32.90	0.82	12.00	3.72	2.04	81.00
	144	190	2	32.90	0.82	12.00	3.74	2.06	81.00
IQ40	18	750	4				apply		
	24	750	4				apply		
	36	625	4				apply		
	48	500	2				apply		
	72	500	2	70.00	0.90	17.00	8.24	2.94	65.00
	96	400	2	70.00	0.90	18.00	8.49	3.03	65.00
	144	300	2	70.00	0.90	19.00	9.10	3.24	65.00
IQ70	18	1100	4				apply		
	24	1100	4				apply		
	36	950	2	95.00	0.80	18.00	7.37	3.37	80.00
	48	750	2	95.00	0.80	18.00	7.03	3.21	80.00
	72	750	2	95.00	0.80	23.00	8.92	4.41	81.00
	96	550	2	95.00	0.80	22.00	8.43	4.16	81.00
	144	475	2	95.00	0.80	27.00	9.79	5.14	83.00
	192	400	2	95.00	0.80	32.00	10.52	5.59	84.00
IQ90	18	1500	4				apply		
	24	1500	4				apply		
	36	1250	4				apply		
	48	1000	2				apply		
	72	1000	2				apply		
	96	750	2				apply		
	144	640	2				apply		
IQ91	144	1000	2				apply		
	192	1000	2				apply		
IQ95	24	2200	4				apply		

All data is approximate

IQ New Generation - Motor Data

460 3 Phase 50Hz

ACTUATOR		ACTUATOR	MOTOR	LOCKED ROTOR		RATED	AVERAGE	Nominal	AVERAGE LOAD	
		lbs.ft.	Poles	Amps	P.Factor	Amps	Amps	Kw	P.Factor	Effy.%
IQ10	18	25	4	1.45	0.83	0.50	0.32	0.05	0.36	58.00
	24	25	4	1.45	0.83	0.50	0.36	0.07	0.38	60.00
	36	25	4	1.45	0.83	0.60	0.49	0.09	0.38	60.00
	48	25	4	2.35	0.87	0.68	0.48	0.11	0.45	62.00
	72	25	4	2.59	0.85	1.40	0.72	0.15	0.44	58.00
	96	25	4	3.20	0.82	1.30	0.78	0.19	0.51	60.00
IQ12	18	60	4	3.20	0.82	0.88	0.52	0.13	0.51	60.00
	24	60	4	3.20	0.82	1.02	0.51	0.16	0.60	65.00
	36	60	4	3.20	0.82	1.40	0.69	0.21	0.60	65.00
	48	50	4	4.22	0.83	1.52	0.93	0.21	0.48	60.00
	72	35	4	4.22	0.83	1.50	0.93	0.21	0.47	59.00
	96	30	4	4.22	0.83	1.55	0.95	0.23	0.49	61.00
IQ18	18	80	4	4.22	0.83	1.30	0.93	0.17	0.44	52.00
	24	80	4	4.22	0.83	1.51	0.80	0.21	0.48	69.00
IQ20	18	150	4	7.80	0.84	2.40	1.83	0.32	0.43	51.00
	24	150	4	6.60	0.83	2.85	1.89	0.40	0.47	56.00
	36	150	4	7.80	0.84	3.70	2.02	0.53	0.55	60.00
	48	150	4	10.20	0.86	3.10	2.53	0.64	0.54	59.00
	72	130	4	10.20	0.86	3.75	3.38	0.76	0.45	63.00
	96	105	4	10.20	0.86	3.80	3.52	0.80	0.45	63.00
	144	75	4	10.20	0.86	3.83	3.59	0.81	0.45	63.00
IQ25	18	295	4	10.20	0.86	3.10	2.78	0.63	0.45	63.00
	24	295	4	10.20	0.86	3.80	3.45	0.78	0.45	63.00
	36	220	4	10.20	0.86	3.80	3.46	0.78	0.45	63.00
	48	180	4	10.20	0.86	3.75	3.42	0.77	0.45	63.00
	72	180	2	22.00	0.85	5.70	2.68	1.06	0.62	80.00
	96	170	2	22.00	0.85	6.60	3.26	1.29	0.62	80.00
	144	110	2	22.00	0.85	6.20	3.01	1.19	0.62	80.00
IQ35	18	450	4	16.50	0.85	5.50	2.74	0.96	0.61	72.00
	24	450	4	16.50	0.85	6.30	3.34	1.19	0.62	72.00
	36	400	4	21.00	0.85	8.90	3.49	1.42	0.68	75.00
	48	350	2	24.40	0.83	8.00	2.70	1.50	0.85	82.00
	72	350	2	32.90	0.82	12.00	3.58	2.06	0.89	81.00
	96	270	2	32.90	0.82	12.00	3.56	2.04	0.89	81.00
	144	190	2	32.90	0.82	12.00	3.58	2.06	0.89	81.00
IQ40	18	750	4				apply			
	24	750	4				apply			
	36	625	4				apply			
	48	500	2				apply			
	72	500	2				apply			
	96	400	2				apply			
	144	300	2				apply			
IQ70	18	1100	4				apply			
	24	1100	4				apply			
	36	950	2				apply			
	48	750	2				apply			
	72	750	2				apply			
	96	550	2				apply			
	144	475	2				apply			
192	400	2				apply				
IQ90	18	1500	4				apply			
	24	1500	4				apply			
	36	1250	4				apply			
	48	1000	2				apply			
	72	1000	2				apply			
	96	750	2				apply			
	144	640	2				apply			
192	540	2				apply				
IQ91	144	1000	2				apply			
	192	1000	2				apply			
IQ95										
	24	2200	4				apply			

All data is approximate

IQ New Generation - Motor Data

500 3 Phase 50Hz

ACTUATOR	ACTUATOR lbs.ft.	MOTOR Poles	LOCKED ROTOR Amps	P.Factor	RATED Amps	AVERAGE Amps	Nominal Kw	AVERAGE LOAD P.Factor	Effy.%	
IQ10	18	25	4	1.30	0.83	0.37	0.29	0.05	0.36	58.00
	24	25	4	1.30	0.83	0.40	0.35	0.07	0.38	58.00
	36	25	4	1.45	0.83	0.50	0.45	0.09	0.38	60.00
	48	25	4	1.50	0.83	0.60	0.54	0.11	0.38	60.00
	72	25	4	2.60	0.85	0.80	0.58	0.15	0.50	58.00
	96	25	4	3.30	0.82	1.30	0.71	0.19	0.51	60.00
IQ12	18	60	4	2.60	0.85	0.80	0.51	0.13	0.50	58.00
	24	60	4	3.30	0.82	1.00	0.47	0.16	0.60	65.00
	36	60	4	3.30	0.82	1.30	0.63	0.21	0.60	65.00
	48	50	4	3.30	0.82	1.30	0.86	0.21	0.48	60.00
	72	35	4	3.30	0.82	1.30	0.86	0.21	0.47	59.00
	96	30	4	3.30	0.82	1.40	0.88	0.23	0.49	61.00
IQ18	18	80	4	3.30	0.82	1.10	0.86	0.17	0.44	52.00
	24	80	4	3.30	0.82	1.30	0.74	0.21	0.48	69.00
IQ20	18	150	4	7.20	0.83	2.00	1.68	0.32	0.43	51.00
	24	150	4	7.20	0.83	2.30	1.74	0.40	0.47	56.00
	36	150	4	7.40	0.85	2.30	1.86	0.53	0.55	60.00
	48	150	4	11.00	0.82	3.10	2.33	0.64	0.54	59.00
	72	130	4	11.00	0.86	3.30	2.15	0.76	0.65	63.00
	96	105	4	11.00	0.86	3.35	2.24	0.80	0.65	63.00
IQ25	144	75	4	11.00	0.86	3.40	2.29	0.81	0.65	63.00
	18	295	4	11.00	0.86	3.00	1.77	0.63	0.65	63.00
	24	295	4	11.00	0.86	3.30	2.20	0.78	0.65	63.00
	36	220	4	11.00	0.86	3.30	2.20	0.78	0.65	63.00
	48	180	4	11.00	0.86	3.30	2.18	0.77	0.65	63.00
	72	180	2	15.50	0.84	5.70	2.46	1.06	0.62	80.00
IQ35	96	170	2	15.50	0.84	6.60	3.00	1.29	0.62	80.00
	144	110	2	15.50	0.84	6.20	2.77	1.19	0.62	80.00
	18	450	4	15.00	0.85	5.50	2.52	0.96	0.61	72.00
	24	450	4	18.00	0.85	6.10	3.07	1.19	0.62	72.00
	36	400	4	18.00	0.85	7.20	3.21	1.42	0.68	75.00
	48	350	2	22.00	0.83	7.30	2.49	1.50	0.85	82.00
IQ40	72	350	2	34.00	0.82	11.00	3.29	2.06	0.89	81.00
	96	270	2	26.20	0.82	10.80	3.27	2.04	0.89	81.00
	144	190	2	26.20	0.82	10.80	3.29	2.06	0.89	81.00
	18	750	4	40.00	0.80	7.50	5.30	1.60	0.47	74.00
	24	750	4	40.00	0.80	9.50	5.47	1.98	0.55	76.00
	36	625	4	40.00	0.80	10.00	5.47	2.22	0.60	78.00
IQ70	48	500	2	55.00	0.78	9.00	4.67	2.14	0.68	78.00
	72	500	2	55.00	0.78	13.00	5.89	2.94	0.72	80.00
	96	400	2	55.00	0.78	13.25	5.62	3.03	0.75	83.00
	144	300	2	55.00	0.78	13.50	5.65	3.24	0.78	85.00
	18	1100	4	52.00	0.78	10.70	6.44	2.34	0.60	70.00
	24	1100	4	52.00	0.78	13.00	6.88	2.91	0.65	75.00
IQ90	36	950	2				apply			
	48	750	2				apply			
	72	750	2				apply			
	96	550	2				apply			
	144	475	2				apply			
	192	400	2				apply			
IQ91	18	1500	4	63.00	0.78	15.00	8.60	3.19	0.55	78.00
	24	1500	4	63.00	0.78	19.00	8.80	3.96	0.65	80.00
	36	1250	4	63.00	0.78	21.00	8.92	4.44	0.70	82.00
	48	1000	2	100.00	0.98	20.00	11.78	4.29	0.60	70.00
	72	1000	2	100.00	0.98	25.00	14.75	5.87	0.63	73.00
	96	750	2	100.00	0.98	25.00	14.26	5.68	0.63	73.00
IQ95	144	640	2	100.00	0.98	30.00	14.27	6.92	0.70	80.00
	192	540	2	100.00	0.98	31.00	13.67	7.55	0.75	85.00
	144	1000	2				apply			
	192	1000	2				apply			
	24	2200	4	63.00	0.78	30.00	9.51	5.81	0.83	85.00

All data is approximate

IQ New Generation - Motor Data

525 3 Phase 50Hz

ACTUATOR	ACTUATOR lbs.ft.	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE Amps	Nominal Kw	AVERAGE LOAD	
			Amps	P.Factor				P.Factor	Effy.%
IQ10	18	25	4	1.30	0.83	0.37	0.28	0.05	58.00
	24	25	4	1.30	0.83	0.40	0.33	0.07	58.00
	36	25	4	1.30	0.83	0.48	0.43	0.09	60.00
	48	25	4	1.50	0.83	0.60	0.50	0.11	60.00
	72	25	4	2.60	0.85	0.80	0.56	0.15	58.00
	96	25	4	2.60	0.85	0.80	0.68	0.19	60.00
IQ12	18	60	4	2.60	0.85	0.80	0.48	0.13	58.00
	24	60	4	2.60	0.85	0.80	0.60	0.16	58.00
	36	60	4	3.30	0.82	1.30	0.60	0.21	65.00
	48	50	4	3.30	0.82	1.30	0.60	0.21	60.00
	72	35	4	3.30	0.82	1.30	0.60	0.21	59.00
	96	30	4	3.30	0.82	1.40	0.60	0.23	61.00
IQ18	18	80	4	3.30	0.82	1.10	0.82	0.17	52.00
	24	80	4	3.30	0.82	1.30	0.70	0.21	69.00
IQ20	18	150	4	5.90	0.82	1.80	1.30	0.32	60.00
	24	150	4	5.90	0.82	2.15	1.61	0.40	60.00
	36	150	4	7.40	0.85	2.30	1.77	0.53	60.00
	48	150	4	7.40	0.85	2.50	2.14	0.64	60.00
	72	130	4	10.80	0.85	3.30	2.05	0.76	63.00
	96	105	4	10.80	0.85	3.35	2.14	0.80	63.00
	144	75	4	10.80	0.85	3.40	2.18	0.81	63.00
IQ25	18	295	4	10.80	0.85	3.00	1.69	0.63	63.00
	24	295	4	11.00	0.86	3.30	2.00	0.78	63.00
	36	220	4	10.80	0.85	3.30	2.00	0.78	63.00
	48	180	4	10.80	0.85	3.30	2.00	0.77	63.00
	72	180	2	15.50	0.84	5.70	2.20	1.06	80.00
	96	170	2	15.50	0.84	6.60	2.20	1.29	80.00
	144	110	2	15.50	0.84	6.20	2.20	1.19	80.00
IQ35	18	450	4	15.00	0.85	5.50	2.40	0.96	72.00
	24	450	4	15.00	0.85	6.10	2.40	1.19	72.00
	36	400	4	18.00	0.85	7.20	2.40	1.42	75.00
	48	350	2	22.00	0.83	7.30	2.37	1.50	82.00
	72	350	2	26.20	0.82	10.80	2.70	2.06	81.00
	96	270	2	26.20	0.82	10.80	2.70	2.04	81.00
	144	190	2	26.20	0.82	10.80	2.70	2.06	81.00
IQ40	18	750	4	41.00	0.80	7.50	5.05	1.60	74.00
	24	750	4	41.00	0.80	9.50	5.21	1.98	76.00
	36	625	4	41.00	0.80	10.00	5.21	2.22	78.00
	48	500	2				apply		
	72	500	2				apply		
	96	400	2				apply		
IQ70	18	1100	4	52.00	0.78	10.70	6.13	2.34	70.00
	24	1100	4	52.00	0.78	13.00	6.55	2.91	75.00
	36	950	2	70.50	0.77	14.00	6.18	3.37	80.00
	48	750	2	70.50	0.77	14.00	5.89	3.21	80.00
	72	750	2	70.50	0.77	19.50	7.48	4.41	83.00
	96	550	2	70.50	0.77	18.50	7.07	4.16	83.00
	144	475	2	70.50	0.77	22.00	8.20	5.14	84.00
	192	400	2	70.50	0.77	25.00	8.93	5.59	84.00
IQ90	18	1500	4	66.00	0.79	15.00	8.19	3.19	78.00
	24	1500	4	66.00	0.79	19.00	8.38	3.96	80.00
	36	1250	4	66.00	0.79	21.00	8.50	4.44	82.00
	48	1000	2	100.00	0.98	20.00	11.22	4.29	70.00
	72	1000	2	100.00	0.98	25.00	14.05	5.87	73.00
	96	750	2	100.00	0.98	25.00	13.58	5.68	73.00
	144	640	2	100.00	0.98	30.00	13.59	6.92	80.00
	192	540	2	100.00	0.98	31.00	13.02	7.55	85.00
IQ91	144	1000	2				apply		
	192	1000	2				apply		
IQ95	24	2200	4	66.00	0.79	28.00	9.40	5.81	85.00

All data is approximate

IQ New generation - Motor Data

550 3 Phase 50Hz

ACTUATOR	ACTUATOR lbs.ft.	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE Amps	Nominal Kw	AVERAGE LOAD	
			Amps	P.Factor				P.Factor	Effy.%
IQ10	18	25	4	1.20	0.83	0.37	0.27	0.05	58.00
	24	25	4	1.30	0.83	0.40	0.31	0.07	58.00
	36	25	4	1.30	0.83	0.48	0.41	0.09	60.00
	48	25	4	1.50	0.83	0.60	0.49	0.11	60.00
	72	25	4	2.40	0.85	0.90	0.53	0.15	58.00
	96	25	4	2.60	0.85	0.80	0.65	0.19	60.00
IQ12	18	60	4	2.60	0.85	0.80	0.46	0.13	58.00
	24	60	4	2.60	0.85	0.80	0.57	0.16	58.00
	36	60	4	2.60	0.85	0.85	0.77	0.21	58.00
	48	50	4	2.60	0.85	0.85	0.78	0.21	58.00
	72	35	4	2.60	0.85	0.82	0.74	0.21	58.00
	96	30	4	3.30	0.82	1.40	0.80	0.23	61.00
IQ18	18	80	4	3.30	0.82	1.10	0.78	0.17	52.00
	24	80	4	3.30	0.82	1.30	0.67	0.21	69.00
IQ20	18	150	4	5.90	0.82	1.80	1.24	0.32	60.00
	24	150	4	5.90	0.82	2.15	1.54	0.40	60.00
	36	150	4	6.90	0.83	2.30	1.69	0.53	60.00
	48	150	4	7.40	0.85	2.50	2.05	0.64	60.00
	72	130	4	10.80	0.85	3.30	1.96	0.76	63.00
	96	105	4	10.80	0.85	3.35	2.04	0.80	63.00
	144	75	4	10.80	0.85	3.40	2.08	0.81	63.00
IQ25	18	295	4	10.80	0.85	3.00	1.61	0.63	63.00
	24	295	4	10.80	0.85	3.30	2.00	0.78	63.00
	36	220	4	10.80	0.85	3.30	2.00	0.78	63.00
	48	180	4	10.80	0.85	3.30	1.98	0.77	63.00
	72	180	2	16.50	0.82	4.50	1.85	1.06	75.00
	96	170	2	16.50	0.82	5.20	2.25	1.29	75.00
	144	110	2	16.50	0.82	5.00	2.08	1.19	75.00
IQ35	18	450	4	15.00	0.85	5.50	2.29	0.96	72.00
	24	450	4	15.00	0.85	6.10	2.80	1.19	72.00
	36	400	4	18.00	0.85	7.20	2.92	1.42	75.00
	48	350	2	25.00	0.83	6.50	2.13	1.50	84.00
	72	350	2	25.00	0.83	8.50	2.92	2.06	84.00
	96	270	2	25.00	0.83	8.50	2.90	2.04	84.00
	144	190	2	25.00	0.83	8.50	2.92	2.06	84.00
IQ40	18	750	4				apply		
	24	750	4				apply		
	36	625	4				apply		
	48	500	2				apply		
	72	500	2				apply		
	96	400	2				apply		
IQ70	144	300	2				apply		
	18	1100	4				apply		
	24	1100	4				apply		
	36	950	2	76.00	0.78	14.00	5.90	3.37	80.00
	48	750	2	76.00	0.78	14.00	5.62	3.21	80.00
	72	750	2	76.00	0.78	19.50	7.14	4.41	83.00
	96	550	2	76.00	0.78	18.50	6.75	4.16	83.00
	144	475	2	76.00	0.78	22.00	7.83	5.14	84.00
IQ90	192	400	2	76.00	0.78	25.00	8.52	5.59	84.00
	18	1500	4				apply		
	24	1500	4				apply		
	36	1250	4				apply		
	48	1000	2	100.00	0.98	20.00	10.71	4.29	70.00
	72	1000	2	100.00	0.98	25.00	13.41	5.87	73.00
	96	750	2	100.00	0.98	25.00	12.96	5.68	73.00
IQ91	144	640	2	100.00	0.98	30.00	12.98	6.92	80.00
	192	540	2	100.00	0.98	31.00	12.43	7.55	85.00
IQ95	144	1000	2				apply		
	192	1000	2				apply		
IQ95	24	2200	4				apply		

All data is approximate

IQ New Generation - Motor Data

660 3 Phase 50Hz

ACTUATOR	ACTUATOR lbs.ft.	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE Amps	Nominal Kw	AVERAGE LOAD	
			Amps	P.Factor				P.Factor	Effy.%
IQ10	18	25	4	1.11	0.85	0.28	0.22	0.05	54.00
	24	25	4	1.11	0.85	0.30	0.27	0.07	54.00
	36	25	4	1.40	0.87	0.45	0.32	0.09	47.00
	48	25	4	1.40	0.87	0.48	0.38	0.11	47.00
	72	25	4	2.28	0.83	0.66	0.48	0.15	51.00
	96	25	4	2.28	0.83	0.82	0.50	0.19	58.00
IQ12	18	60	4	2.28	0.83	0.61	0.44	0.13	51.00
	24	60	4	2.28	0.83	0.80	0.45	0.16	56.00
	36	60	4	3.00	0.87	1.05	0.84	0.21	48.00
	48	50	4	3.00	0.87	1.05	0.85	0.21	48.00
	72	35	4	3.00	0.87	1.00	0.81	0.21	48.00
	96	30	4	3.50	0.84	1.00	0.88	0.23	50.00
IQ18	18	80	4	3.00	0.87	0.95	0.79	0.17	43.00
	24	80	4	3.50	0.84	1.00	0.82	0.21	50.00
IQ20	18	150	4	5.80	0.83	1.55	1.11	0.32	60.00
	24	150	4	5.80	0.83	1.80	1.38	0.40	60.00
	36	150	4	7.60	0.82	2.40	1.83	0.53	62.00
	48	150	4	8.30	0.82	2.75	1.99	0.64	60.00
	72	130	4	8.30	0.82	3.30	2.12	0.76	63.00
	96	105	4	8.30	0.82	3.35	2.21	0.80	63.00
	144	75	4	8.30	0.82	3.50	2.25	0.81	63.00
IQ25	18	295	4	10.00	0.82	3.20	2.37	0.63	58.00
	24	295	4	10.00	0.82	3.60	2.70	0.78	60.00
	36	220	4	8.30	0.82	3.00	1.91	0.78	65.00
	48	180	4	8.30	0.82	3.00	1.89	0.77	65.00
	72	180	2	14.00	0.83	3.80	1.80	1.06	78.00
	96	170	2	14.00	0.83	4.40	2.19	1.29	78.00
	144	110	2	14.00	0.83	4.00	2.02	1.19	78.00
IQ35	18	450	4	11.40	0.84	3.80	1.69	0.96	74.00
	24	450	4	15.00	0.85	4.70	2.03	1.19	73.00
	36	400	4	15.00	0.85	5.90	2.43	1.42	73.00
	48	350	2	13.00	0.81	5.60	1.68	1.50	89.00
	72	350	2	18.00	0.82	8.00	2.38	2.06	85.00
	96	270	2	18.00	0.82	8.00	2.36	2.04	85.00
	144	190	2	18.00	0.82	8.00	2.38	2.06	85.00
IQ40	18	750	4				apply		
	24	750	4				apply		
	36	625	4				apply		
	48	500	2				apply		
	72	500	2				apply		
	96	400	2				apply		
IQ70	144	300	2				apply		
IQ90	18	1100	4				apply		
	24	1100	4				apply		
	36	950	2				apply		
	48	750	2				apply		
	72	750	2				apply		
	96	550	2				apply		
	144	475	2				apply		
IQ91	192	400	2				apply		
IQ95	18	1500	4				apply		
	24	1500	4				apply		
	36	1250	4				apply		
IQ99	48	1000	2				apply		
	72	1000	2				apply		
	96	750	2				apply		
	144	640	2				apply		
IQ100	192	540	2				apply		
IQ101	144	1000	2				apply		
	192	1000	2				apply		
IQ105	24	2200	4				apply		

All data is approximate

IQ New Generation - Motor Data

690 3 Phase 50Hz

ACTUATOR	ACTUATOR lbs.ft.	MOTOR Poles	LOCKED ROTOR		RATED Amps	AVERAGE Amps	Nominal Kw	AVERAGE LOAD	
			Amps	P.Factor				P.Factor	Effy.%
IQ10	18	25	4	0.89	0.87	0.25	0.17	0.05	48.00
	24	25	4	1.11	0.85	0.30	0.26	0.07	54.00
	36	25	4	1.11	0.85	0.40	0.21	0.09	60.00
	48	25	4	1.40	0.87	0.48	0.37	0.11	47.00
	72	25	4	1.76	0.82	0.65	0.35	0.15	60.00
	96	25	4	2.28	0.83	0.82	0.48	0.19	58.00
IQ12	18	60	4	2.28	0.83	0.61	0.42	0.13	51.00
	24	60	4	2.28	0.83	0.80	0.43	0.16	56.00
	36	60	4	3.00	0.87	1.05	0.81	0.21	48.00
	48	50	4	3.00	0.87	1.05	0.81	0.21	48.00
	72	35	4	3.00	0.87	1.00	0.78	0.21	48.00
	96	30	4	3.00	0.87	1.10	0.86	0.23	48.00
IQ18	18	80	4	3.00	0.87	0.95	0.75	0.17	43.00
	24	80	4	3.00	0.87	1.05	0.80	0.21	48.00
IQ20	18	150	4	4.50	0.84	1.49	1.07	0.32	50.00
	24	150	4	5.36	0.83	1.75	1.34	0.40	59.00
	36	150	4	5.36	0.83	2.30	1.44	0.53	62.00
	48	150	4	6.45	0.83	2.30	1.37	0.64	77.00
	72	130	4	8.60	0.82	3.30	2.03	0.76	63.00
	96	105	4	8.60	0.82	3.35	2.11	0.80	63.00
	144	75	4	8.60	0.82	3.50	2.15	0.81	63.00
IQ25	18	295	4	8.60	0.82	2.60	1.67	0.63	63.00
	24	295	4	8.60	0.82	3.30	2.07	0.78	63.00
	36	220	4	8.60	0.82	3.00	1.83	0.78	65.00
	48	180	4	8.60	0.82	3.00	1.81	0.77	65.00
	72	180	2	14.00	0.83	3.80	1.72	1.06	78.00
	96	170	2	14.00	0.83	4.40	2.09	1.29	78.00
	144	110	2	14.00	0.83	4.00	1.93	1.19	78.00
IQ35	18	450	4	12.00	0.84	3.60	1.57	0.96	75.00
	24	450	4	12.00	0.84	4.60	1.95	1.19	75.00
	36	400	4	15.00	0.85	5.90	2.32	1.42	73.00
	48	350	2	13.00	0.81	5.60	1.60	1.50	89.00
	72	350	2	18.00	0.82	8.00	2.27	2.06	85.00
	96	270	2	18.00	0.82	8.00	2.26	2.04	85.00
	144	190	2	18.00	0.82	8.00	2.27	2.06	85.00
IQ40	18	750	4				apply		
	24	750	4				apply		
	36	625	4				apply		
	48	500	2	37.00	0.89	8.00	3.11	2.14	80.00
	72	500	2	37.00	0.89	11.00	4.27	2.94	80.00
	96	400	2	37.00	0.89	11.00	4.40	3.03	80.00
	144	300	2	37.00	0.89	12.00	4.71	3.24	80.00
IQ70	18	1100	4				apply		
	24	1100	4				apply		
	36	950	2	45.00	0.95	11.00	5.79	3.37	0.65 75.00
	48	750	2	45.00	0.95	11.00	5.52	3.21	0.65 75.00
	72	750	2				apply		
	96	550	2				apply		
	144	475	2				apply		
IQ90	18	1500	4				apply		
	24	1500	4				apply		
	36	1250	4				apply		
	48	1000	2				apply		
	72	1000	2				apply		
	96	750	2	75.00	0.92	15.50	9.75	5.68	0.65 75.00
	144	640	2				apply		
IQ91	144	1000	2				apply		
	192	1000	2	135.00	0.88	45.00	20.89	13.98	0.70 80.00
IQ95	24	2200	4				apply		

All data is approximate