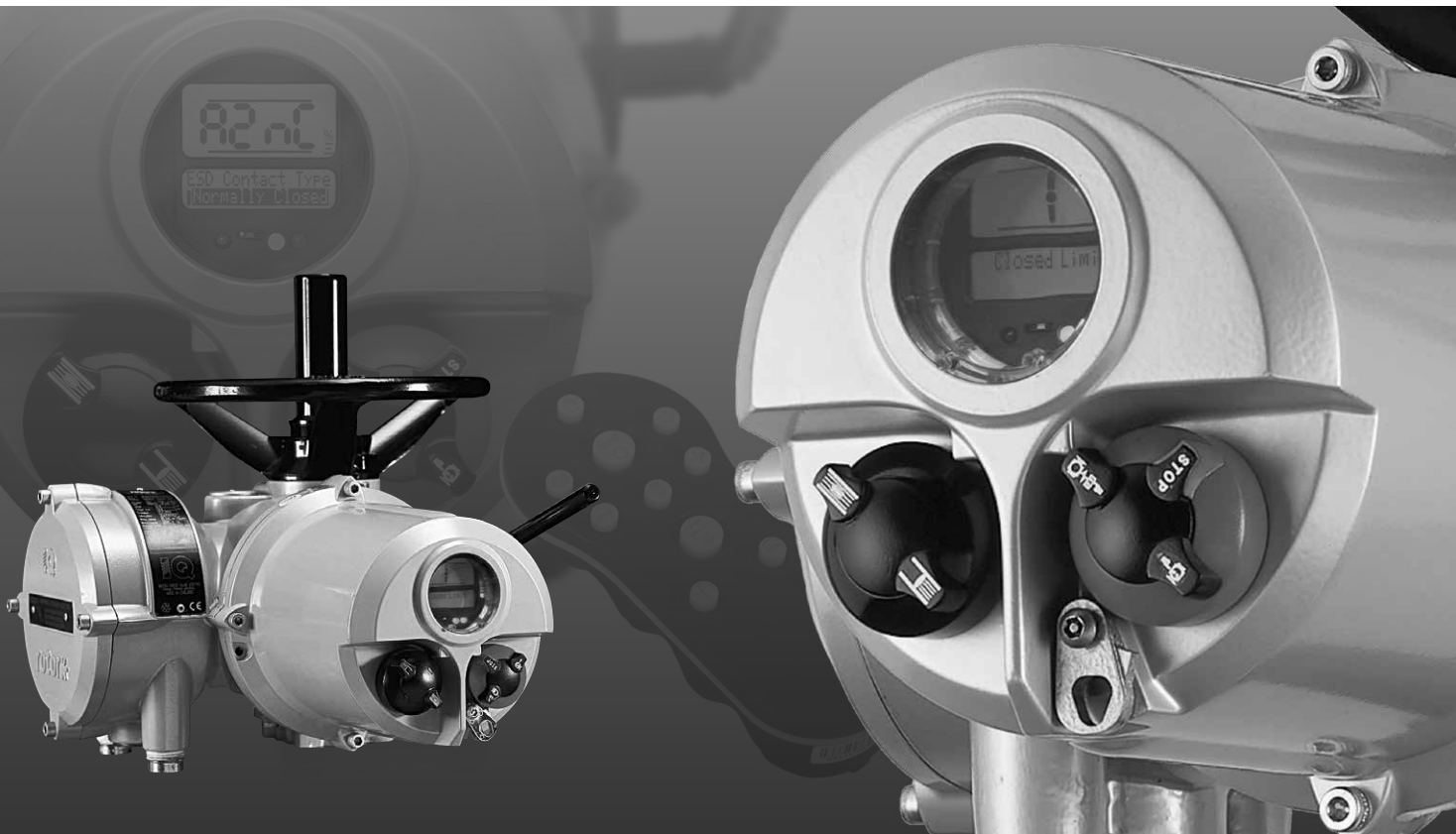


rotork®

Keeping the World Flowing
for Future Generations

IQ Pro range



Electric motor performance data for 3-phase power supplies

Contents

Section	Page	Section	Page
Introduction	3		
Electrical consumption data			
60 Hz 200 V	5	50 Hz 200 V	16
208 V	6	220 V	17
220 V	7	240 V	18
230 V	8	380 V	19
240 V	9	400 V	20
380 V	10	415 V	21
440 V	11	440 V	22
460 V	12	460 V	23
480 V	13	500 V	24
575 V	14	525 V	25
600 V	15	550 V	26
		660 V	27
		690 V	28



Rotork is the global market leader in valve automation and flow control. Our products and services are helping organisations around the world to improve efficiency, assure safety and protect the environment.

We strive always for technical excellence, innovation and the highest quality standards in everything we do. As a result, our people and products remain at the forefront of flow control technology.

Uncompromising reliability is a feature of our entire product range, from our flagship electric actuator range through to our pneumatic, hydraulic and electro-hydraulic actuators, as well as instruments, gear boxes and valve accessories.

Rotork is committed to providing first class support to each client throughout the whole life of their plant, from initial site surveys to installation, maintenance, audits and repair. From our network of national and international offices, our engineers work around the clock to maintain our position of trust.

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 240 V
- 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.

Introduction

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.

Electrical consumption data

200 V - 3-phase 60Hz motor data

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	0.91	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	6.50	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

Electrical consumption data

208 V - 3-phase 60Hz motor data

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	90.00	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				

IQ 91 not available at 208-3-60

All data is approximate

Electrical consumption data

220 V - 3-phase 60Hz motor data

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	

IQ 91 not available at 220-3-60

All data is approximate

Electrical consumption data

230 V - 3-phase 60Hz motor data

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	
173	75	4	34.00	0.82	13.30	9.47	0.97	0.43	60.00	
IQ25										
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	
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	
IQ35										
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	
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	
IQ40										
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	
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	
IQ70										
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	
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	
IQ90										
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			
173	640	2					not available at 230-3-60			
230	540	2					not available at 230-3-60			
IQ95										
29	2200	4					apply			

IQ 91 not available at 230-3-60

All data is approximate

Electrical consumption data

240 V - 3-phase 60Hz motor data

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	0.35	57.00	
29	25	4	4.70	0.87	1.00	0.91	0.08	0.35	60.00	
43	25	4	4.30	0.87	1.40	1.16	0.11	0.40	55.00	
57	25	4	4.30	0.87	1.50	1.34	0.13	0.42	55.00	
86	25	4	6.60	0.82	1.99	1.14	0.18	0.53	70.00	
115	25	4	9.00	0.85	2.58	1.70	0.23	0.51	63.00	
IQ12										
21	60	4	8.44	0.80	1.75	1.13	0.15	0.50	65.00	
29	60	4	8.44	0.80	2.22	1.70	0.19	0.44	61.00	
43	60	4	9.00	0.85	3.00	2.16	0.26	0.46	62.00	
57	50	4	9.00	0.85	3.00	2.17	0.26	0.46	62.00	
86	35	4	9.00	0.85	3.00	2.08	0.25	0.46	62.00	
115	30	4	9.00	0.85	3.10	2.30	0.27	0.46	62.00	
IQ18										
21	80	4	9.00	0.85	2.70	1.72	0.20	0.46	62.00	
29	80	4	9.00	0.85	3.00	2.14	0.25	0.46	62.00	
IQ20										
21	150	4	18.00	0.81	6.00	4.61	0.38	0.40	50.00	
29	150	4	18.00	0.84	6.50	5.72	0.48	0.40	50.00	
43	150	4	22.00	0.86	11.00	7.68	0.64	0.40	50.00	
57	150	4	22.00	0.86	11.80	9.28	0.77	0.40	50.00	
86	130	4	33.00	0.83	12.50	8.55	0.92	0.43	60.00	
115	105	4	33.00	0.83	12.60	8.90	0.95	0.43	60.00	
173	75	4	33.00	0.83	12.70	9.08	0.97	0.43	60.00	
IQ25										
21	295	4	30.00	0.84	12.00	7.56	0.75	0.40	60.00	
29	295	4	30.00	0.84	14.00	8.52	0.93	0.44	60.00	
43	220	4	33.00	0.83	12.60	8.74	0.94	0.43	60.00	
57	180	4	33.00	0.83	12.60	8.63	0.93	0.43	60.00	
86	180	2	48.00	0.84	13.00	5.45	1.27	0.70	80.00	
115	170	2	48.00	0.84	13.50	6.64	1.54	0.70	80.00	
173	110	2	48.00	0.84	13.20	6.13	1.43	0.70	80.00	
IQ35										
21	450	4	42.00	0.81	14.50	5.67	1.15	0.65	75.00	
29	450	4	51.00	0.84	17.00	7.04	1.43	0.65	75.00	
43	400	4	60.00	0.88	19.00	12.36	1.70	0.51	65.00	
57	350	2	72.00	0.82	20.00	6.77	1.80	0.80	80.00	
86	350	2	75.00	0.82	25.00	18.26	2.47	0.50	65.00	
115	270	2	75.00	0.82	25.00	18.16	2.45	0.50	65.00	
173	190	2	75.00	0.82	25.00	18.25	2.47	0.50	65.00	
IQ40										
21	750	4	84.00	0.90	20.00	12.81	1.92	0.45	80.00	
29	750	4	84.00	0.90	22.00	14.59	2.38	0.49	80.00	
43	625	4	84.00	0.90	23.00	16.01	2.66	0.50	80.00	
57	500	2	140.00	0.90	30.00	14.70	2.57	0.69	61.00	
86	500	2	140.00	0.90	34.00	18.12	3.52	0.72	65.00	
115	400	2	140.00	0.90	36.00	18.68	3.63	0.72	65.00	
173	300	2	140.00	0.90	38.00	20.02	3.89	0.72	65.00	
IQ70										
21	1100	4	120.00	0.88	23.00	17.34	2.81	0.60	65.00	
29	1100	4	120.00	0.88	26.00	18.43	3.49	0.65	70.00	
43	950	2	166.00	0.78	36.00	16.22	4.05	0.75	80.00	
57	750	2	166.00	0.78	36.00	15.47	3.86	0.75	80.00	
86	750	2	166.00	0.78	46.00	19.63	5.29	0.80	81.00	
115	550	2	166.00	0.78	45.00	18.55	5.00	0.80	81.00	
173	475	2	166.00	0.78	55.00	21.53	6.17	0.83	83.00	
230	400	2	166.00	0.78	65.00	23.15	6.71	0.83	84.00	
IQ90										
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	0.65	80.00	
86	1000	2	271.00	0.82	60.00	30.05	7.05	0.68	83.00	
115	750	2	271.00	0.82	58.00	29.05	6.81	0.68	83.00	
173	640	2	271.00	0.82	72.00	32.65	8.31	0.72	85.00	
230	540	2	271.00	0.82	84.00	32.07	9.06	0.79	86.00	
IQ95										
29	2200	4	170.00	0.86	60.00	24.69	6.97	0.79	86.00	

IQ 91 not available at 240-3-60

All data is approximate

Electrical consumption data

380 V - 3-phase 60Hz motor data

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	

IQ 91 not available at 380-3-60

All data is approximate

Electrical consumption data

440 V - 3-phase 60Hz motor data

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	

IQ 91 not available at 440-3-60

All data is approximate

Electrical consumption data

460 V - 3-phase 60Hz motor data

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

Electrical consumption data

480 V - 3-phase 60Hz motor data

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	
173	75	4	16.95	0.83	4.30	3.28	0.97	0.55	62.00	
IQ25										
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	
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	
IQ35										
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	
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	
IQ40										
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	
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	
IQ70										
21	1100	4	64.00	0.88	13.00	8.67	2.81	0.60	65.00	
29	1100	4	64.00	0.88	14.00	9.22	3.49	0.65	70.00	
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	
IQ90										
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	
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	
IQ91										
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

Electrical consumption data

575 V - 3-phase 60Hz motor data

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	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

Electrical consumption data

600 V - 3-phase 60Hz motor data

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	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

Electrical consumption data

200 V - 3-phase 50Hz motor data

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	0.45	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			
192	540	2					not available at 200-3-50			
IQ95										
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

Electrical consumption data

220 V - 3-phase 50Hz motor data

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	
144	300	2	140.00	0.90	38.00	18.00	3.24	0.72	65.00	
IQ70										
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	
192	400	2	166.00	0.78	65.00	21.05	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 220-3-50				
72	1000	2				not available at 220-3-50				
96	750	2				not available at 220-3-50				
144	640	2				not available at 220-3-50				
192	540	2				not available at 220-3-50				
IQ95										
24	2200	4				apply				

IQ 91 not available at 220-3-50

All data is approximate

Electrical consumption data

240 V - 3-phase 50Hz motor data

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				
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				not available at 240-3-50				
72	1000	2				not available at 240-3-50				
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				
IQ95										
24	2200	4				apply				

IQ 91 not available at 240-3-50

All data is approximate

Electrical consumption data

380 V - 3-phase 50Hz motor data

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	1.80	0.84	0.52	0.41	0.05	0.35	57.00
24	25		4	1.80	0.84	0.60	0.48	0.07	0.35	60.00
36	25		4	2.20	0.86	0.75	0.58	0.09	0.42	55.00
48	25		4	2.50	0.86	1.00	0.85	0.11	0.35	55.00
72	25		4	3.00	0.83	1.10	0.60	0.15	0.53	70.00
96	25		4	4.65	0.82	1.50	0.90	0.19	0.50	53.00
IQ12										
18	60		4	4.65	0.82	1.20	0.86	0.13	0.45	50.00
24	60		4	4.65	0.82	1.30	0.91	0.16	0.50	53.00
36	60		4	4.65	0.82	1.70	1.07	0.21	0.55	55.00
48	50		4	4.65	0.82	1.70	1.08	0.21	0.55	55.00
72	35		4	4.65	0.82	1.68	1.03	0.21	0.55	55.00
96	30		4	4.65	0.82	1.76	1.14	0.23	0.55	55.00
IQ18										
18	80		4	4.65	0.82	1.50	0.98	0.17	0.50	53.00
24	80		4	6.00	0.82	1.75	1.50	0.21	0.40	50.00
IQ20										
18	150		4	9.25	0.85	2.70	2.10	0.32	0.42	55.00
24	150		4	9.25	0.85	3.00	2.16	0.40	0.45	62.00
36	150		4	9.40	0.85	3.20	2.85	0.53	0.45	63.00
48	150		4	12.00	0.85	3.70	3.26	0.64	0.50	60.00
72	130		4	16.50	0.83	5.90	3.50	0.76	0.43	58.00
96	105		4	16.50	0.83	6.00	3.50	0.80	0.43	58.00
144	75		4	16.50	0.83	6.10	3.50	0.81	0.43	58.00
IQ25										
18	295		4	16.50	0.83	5.30	3.30	0.63	0.43	58.00
24	295		4	16.50	0.83	5.90	3.30	0.78	0.43	58.00
36	220		4	16.50	0.83	9.00	3.30	0.78	0.43	58.00
48	180		4	16.50	0.83	9.30	3.30	0.77	0.43	58.00
72	180		2	25.00	0.82	12.00	2.52	1.06	0.75	85.00
96	170		2	25.00	0.82	10.60	3.07	1.29	0.75	85.00
144	110		2	25.00	0.82	10.60	2.84	1.19	0.75	85.00
IQ35										
18	450		4	26.50	0.87	5.00	3.03	0.96	0.65	74.00
24	450		4	26.50	0.87	5.90	3.75	1.19	0.65	74.00
36	400		4	28.00	0.87	9.00	4.40	1.42	0.51	68.00
48	350		2	37.00	0.80	9.30	3.61	1.50	0.82	77.00
72	350		2	40.50	0.90	12.00	4.23	2.06	0.88	84.00
96	270		2	40.50	0.80	10.60	4.87	2.04	0.85	75.00
144	190		2	40.50	0.80	10.60	4.90	2.06	0.85	75.00
IQ40										
18	750		4	40.00	0.84	10.50	6.74	1.60	0.45	80.00
24	750		4	40.00	0.84	11.00	7.68	1.98	0.49	80.00
36	625		4	48.00	0.86	14.00	8.00	2.22	0.75	55.00
48	500		2	70.00	0.90	15.00	7.74	2.14	0.69	61.00
72	500		2	70.00	0.90	17.00	9.54	2.94	0.72	65.00
96	400		2	70.00	0.90	18.00	9.83	3.03	0.72	65.00
144	300		2	70.00	0.90	19.00	10.10	3.24	0.72	65.00
IQ70										
18	1100		4	64.00	0.87	14.00	6.42	2.34	0.72	77.00
24	1100		4	64.00	0.87	16.00	7.46	2.91	0.74	80.00
36	950		2	85.00	0.78	18.00	8.54	3.37	0.75	80.00
48	750		2	85.00	0.78	18.00	8.14	3.21	0.75	80.00
72	750		2	85.00	0.78	23.00	10.33	4.41	0.80	81.00
96	550		2	85.00	0.78	22.00	9.76	4.16	0.80	81.00
144	475		2	85.00	0.78	27.00	11.33	5.14	0.83	83.00
192	400		2	85.00	0.78	32.00	12.18	5.59	0.83	84.00
IQ90										
18	1500		4	75.00	0.88	18.00	10.67	3.19	0.65	70.00
24	1500		4	75.00	0.88	19.50	12.13	3.96	0.68	73.00
36	1250		4	75.00	0.88	20.50	12.84	4.44	0.70	75.00
48	1000		2	135.00	0.82	24.00	12.52	4.29	0.65	80.00
72	1000		2	135.00	0.82	30.00	15.81	5.87	0.68	83.00
96	750		2	135.00	0.82	29.00	15.29	5.68	0.68	83.00
144	640		2	135.00	0.82	34.00	17.19	6.92	0.72	85.00
192	540		2	135.00	0.82	42.00	16.88	7.55	0.79	86.00
IQ91										
144	1000		2	230.00	0.85	58.00	29.35	10.82	0.70	80.00
192	1000		2	230.00	0.85	75.00	37.93	13.98	0.70	80.00
IQ95										
24	2200		4	80.00	0.86	35.00	12.99	5.81	0.79	86.00

All data is approximate

Electrical consumption data

400 V - 3-phase 50Hz motor data

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	2.00	0.85	0.49	0.39	0.05	0.35	57.00	
24	25	4	2.00	0.85	0.52	0.45	0.07	0.35	60.00	
36	25	4	2.50	0.86	0.75	0.55	0.09	0.42	55.00	
48	25	4	2.50	0.86	0.78	0.67	0.11	0.42	55.00	
72	25	4	3.00	0.81	1.03	0.57	0.15	0.53	70.00	
96	25	4	3.99	0.82	1.34	0.85	0.19	0.51	63.00	
IQ12										
18	60	4	3.99	0.82	1.00	0.77	0.13	0.40	60.00	
24	60	4	3.99	0.82	1.15	0.85	0.16	0.44	61.00	
36	60	4	5.15	0.83	1.70	1.41	0.21	0.41	53.00	
48	50	4	5.15	0.83	1.70	1.42	0.21	0.41	53.00	
72	35	4	5.15	0.83	1.68	1.37	0.21	0.41	53.00	
96	30	4	5.15	0.83	1.76	1.50	0.23	0.41	53.00	
IQ18										
18	80	4	5.15	0.83	1.50	1.29	0.17	0.38	50.00	
24	80	4	5.15	0.83	1.75	1.40	0.21	0.41	53.00	
IQ20										
18	150	4	9.00	0.81	3.00	2.30	0.32	0.40	50.00	
24	150	4	7.00	0.85	2.40	2.31	0.40	0.45	55.00	
36	150	4	9.40	0.85	2.74	2.71	0.53	0.45	63.00	
48	150	4	9.40	0.85	3.22	2.86	0.64	0.50	65.00	
72	130	4	14.00	0.83	4.10	3.08	0.76	0.55	65.00	
96	105	4	14.00	0.83	4.30	3.21	0.80	0.55	65.00	
144	75	4	14.00	0.83	4.30	3.28	0.81	0.55	65.00	
IQ25										
18	295	4	14.00	0.84	6.00	3.20	0.63	0.40	50.00	
24	295	4	14.00	0.84	7.00	3.20	0.78	0.40	50.00	
36	220	4	14.00	0.83	4.20	3.15	0.78	0.55	65.00	
48	180	4	14.00	0.83	4.20	3.11	0.77	0.55	65.00	
72	180	2	22.00	0.82	5.30	2.39	1.06	0.75	85.00	
96	170	2	22.00	0.82	7.95	2.90	1.29	0.75	85.00	
144	110	2	22.00	0.82	7.00	2.69	1.19	0.75	85.00	
IQ35										
18	450	4	20.00	0.85	4.50	2.78	0.96	0.70	71.00	
24	450	4	26.50	0.87	5.90	3.57	1.19	0.65	74.00	
36	400	4	26.50	0.87	6.60	4.20	1.42	0.65	75.00	
48	350	2	40.50	0.80	9.00	3.40	1.50	0.85	75.00	
72	350	2	40.50	0.90	10.60	4.66	2.06	0.85	75.00	
96	270	2	40.50	0.80	10.60	4.63	2.04	0.85	75.00	
144	190	2	40.50	0.80	10.60	4.65	2.06	0.85	75.00	
IQ40										
18	750	4	42.00	0.90	10.00	6.40	1.60	0.45	80.00	
24	750	4	42.00	0.90	11.00	7.29	1.98	0.49	80.00	
36	625	4	42.00	0.90	12.00	8.00	2.22	0.50	80.00	
48	500	2	70.00	0.90	15.00	7.35	2.14	0.69	61.00	
72	500	2	70.00	0.90	17.00	9.06	2.94	0.72	65.00	
96	400	2	70.00	0.90	18.00	9.34	3.03	0.72	65.00	
144	300	2	70.00	0.90	19.00	10.01	3.24	0.72	65.00	
IQ70										
18	1100	4	60.00	0.88	13.00	8.67	2.34	0.60	65.00	
24	1100	4	60.00	0.88	14.00	8.80	2.91	0.65	70.00	
36	950	2	85.00	0.78	18.00	8.11	3.37	0.75	80.00	
48	750	2	85.00	0.78	18.00	7.73	3.21	0.75	80.00	
72	750	2	85.00	0.78	23.00	9.81	4.41	0.80	81.00	
96	550	2	85.00	0.78	22.00	9.28	4.16	0.80	81.00	
144	475	2	85.00	0.78	27.00	10.77	5.14	0.83	83.00	
192	400	2	85.00	0.78	32.00	11.58	5.59	0.83	84.00	
IQ90										
18	1500	4	75.00	0.88	18.00	10.13	3.19	0.65	70.00	
24	1500	4	75.00	0.88	19.50	11.52	3.96	0.68	73.00	
36	1250	4	75.00	0.88	20.50	12.20	4.44	0.70	75.00	
48	1000	2	135.00	0.82	24.00	11.90	4.29	0.65	80.00	
72	1000	2	135.00	0.82	30.00	15.02	5.87	0.68	83.00	
96	750	2	135.00	0.82	29.00	14.52	5.68	0.68	83.00	
144	640	2	135.00	0.82	34.00	16.33	6.92	0.72	85.00	
192	540	2	135.00	0.82	42.00	16.04	7.55	0.79	86.00	
IQ91										
144	1000	2	217.00	0.59	57.00	27.88	10.82	0.70	80.00	
192	1000	2				apply				
IQ95										
24	2200	4	85.00	0.86	30.00	12.35	5.81	0.79	86.00	

All data is approximate

Electrical consumption data

415 V - 3-phase 50Hz motor data

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	1.36	0.85	0.49	0.37	0.05	0.35	57.00	
24	25	4	2.00	0.85	0.52	0.44	0.07	0.35	60.00	
36	25	4	2.00	0.85	0.60	0.52	0.09	0.38	62.00	
48	25	4	2.50	0.86	0.78	0.65	0.11	0.42	55.00	
72	25	4	3.00	0.81	1.03	0.55	0.15	0.53	70.00	
96	25	4	4.65	0.82	1.34	0.80	0.19	0.51	63.00	
IQ12										
18	60	4	3.00	0.81	0.90	0.55	0.13	0.50	65.00	
24	60	4	3.99	0.82	1.15	0.82	0.16	0.44	61.00	
36	60	4	3.99	0.82	1.50	0.90	0.21	0.52	63.00	
48	50	4	5.15	0.83	1.70	1.37	0.21	0.41	53.00	
72	35	4	5.15	0.83	1.68	1.32	0.21	0.41	53.00	
96	30	4	5.15	0.83	1.76	1.45	0.23	0.41	53.00	
IQ18										
18	80	4	5.15	0.83	1.50	1.25	0.17	0.38	50.00	
24	80	4	5.15	0.83	1.70	1.35	0.21	0.41	53.00	
IQ20										
18	150	4	6.60	0.85	2.40	2.20	0.32	0.40	50.00	
24	150	4	7.00	0.85	2.40	2.23	0.40	0.45	55.00	
36	150	4	9.40	0.85	2.74	2.61	0.53	0.45	63.00	
48	150	4	9.40	0.85	3.22	2.75	0.64	0.50	65.00	
72	130	4	14.00	0.83	4.10	2.97	0.76	0.55	65.00	
96	105	4	14.00	0.83	4.30	3.09	0.80	0.55	65.00	
144	75	4	14.00	0.83	4.30	3.16	0.81	0.55	65.00	
IQ25										
18	295	4	14.00	0.83	4.00	2.67	0.63	0.52	63.00	
24	295	4	14.00	0.84	7.00	3.00	0.78	0.40	50.00	
36	220	4	14.00	0.83	4.20	3.00	0.78	0.55	65.00	
48	180	4	14.00	0.83	4.20	3.00	0.77	0.55	65.00	
72	180	2	22.00	0.82	5.30	2.31	1.06	0.75	85.00	
96	170	2	22.00	0.82	7.95	2.81	1.29	0.75	85.00	
144	110	2	22.00	0.82	7.00	2.60	1.19	0.75	85.00	
IQ35										
18	450	4	20.00	0.85	4.50	2.68	0.96	0.70	71.00	
24	450	4	26.50	0.85	6.00	3.39	1.19	0.65	75.00	
36	400	4	26.50	0.87	6.60	4.05	1.42	0.65	75.00	
48	350	2	31.40	0.82	7.60	3.26	1.50	0.80	80.00	
72	350	2	40.50	0.80	10.60	4.49	2.06	0.85	75.00	
96	270	2	40.50	0.80	10.60	4.46	2.04	0.85	75.00	
144	190	2	40.50	0.80	10.60	4.49	2.06	0.85	75.00	
IQ40										
18	750	4	36.00	0.92	8.50	3.61	1.60	0.80	77.00	
24	750	4	36.00	0.92	10.50	4.21	1.98	0.85	77.00	
36	625	4	36.00	0.92	13.00	4.55	2.22	0.87	78.00	
48	500	2	65.00	0.91	14.00	6.55	2.14	0.70	65.00	
72	500	2	70.00	0.90	17.00	8.73	2.94	0.72	65.00	
96	400	2	70.00	0.90	18.00	9.00	3.03	0.72	65.00	
144	300	2	70.00	0.90	19.00	9.65	3.24	0.72	65.00	
IQ70										
18	1100	4	55.00	0.86	12.00	7.80	2.34	0.55	76.00	
24	1100	4	55.00	0.86	16.00	8.42	2.91	0.60	80.00	
36	950	2	85.00	0.78	18.00	7.82	3.37	0.75	80.00	
48	750	2	85.00	0.78	18.00	7.45	3.21	0.75	80.00	
72	750	2	85.00	0.78	23.00	9.46	4.41	0.80	81.00	
96	550	2	85.00	0.78	22.00	8.94	4.16	0.80	81.00	
144	475	2	85.00	0.78	27.00	10.38	5.14	0.83	83.00	
192	400	2	85.00	0.78	32.00	10.50	5.59	0.83	84.00	
IQ90										
18	1500	4	75.00	0.88	18.00	9.77	3.19	0.65	70.00	
24	1500	4	75.00	0.88	19.50	11.10	3.96	0.68	73.00	
36	1250	4	75.00	0.88	20.50	11.76	4.44	0.70	75.00	
48	1000	2	135.00	0.82	24.00	11.47	4.29	0.65	80.00	
72	1000	2	135.00	0.82	30.00	14.48	5.87	0.68	83.00	
96	750	2	135.00	0.82	29.00	14.00	5.68	0.68	83.00	
144	640	2	135.00	0.82	34.00	15.74	6.92	0.72	85.00	
192	540	2	135.00	0.82	42.00	15.46	7.55	0.79	86.00	
IQ91										
144	1000	2	217.00	0.59	57.00	26.87	10.82	0.70	80.00	
192	1000	2				apply				
IQ95										
24	2200	4	90.00	0.86	32.00	12.68	5.81	0.75	85.00	

All data is approximate

Electrical consumption data

440 V - 3-phase 50Hz motor data

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	1.45	0.83	0.50	0.33	0.05	0.36	58.00	
24	25	4	1.45	0.83	0.50	0.38	0.07	0.38	60.00	
36	25	4	2.35	0.87	0.60	0.51	0.09	0.38	60.00	
48	25	4	2.35	0.87	0.68	0.50	0.11	0.45	62.00	
72	25	4	3.20	0.82	0.93	0.63	0.15	0.51	60.00	
96	25	4	4.22	0.83	1.42	1.09	0.19	0.44	52.00	
IQ12										
18	60	4	3.20	0.82	0.88	0.55	0.13	0.51	60.00	
24	60	4	3.20	0.82	1.02	0.53	0.16	0.60	65.00	
36	60	4	4.22	0.83	1.52	0.97	0.21	0.48	60.00	
48	50	4	4.22	0.83	1.52	0.98	0.21	0.48	60.00	
72	35	4	4.22	0.83	1.50	0.97	0.21	0.47	59.00	
96	30	4	4.22	0.83	1.55	1.00	0.23	0.49	61.00	
IQ18										
18	80	4	4.22	0.83	1.30	0.98	0.17	0.44	52.00	
24	80	4	4.22	0.83	1.51	0.84	0.21	0.48	69.00	
IQ20										
18	150	4	7.80	0.84	2.40	1.91	0.32	0.43	51.00	
24	150	4	7.80	0.84	2.85	1.98	0.40	0.47	56.00	
36	150	4	7.80	0.84	3.70	2.12	0.53	0.55	60.00	
48	150	4	10.20	0.86	3.10	2.65	0.64	0.54	59.00	
72	130	4	15.00	0.85	3.75	3.53	0.76	0.45	63.00	
96	105	4	15.00	0.85	3.80	3.68	0.80	0.45	63.00	
144	75	4	15.00	0.85	3.83	3.75	0.81	0.45	63.00	
IQ25										
18	295	4	15.00	0.85	3.70	2.80	0.63	0.40	60.00	
24	295	4	15.00	0.85	3.80	2.80	0.78	0.45	60.00	
36	220	4	15.00	0.85	3.80	2.80	0.78	0.45	60.00	
48	180	4	15.00	0.85	3.75	2.80	0.77	0.45	60.00	
72	180	2	22.00	0.85	5.70	2.70	1.06	0.62	80.00	
96	170	2	22.00	0.85	6.60	2.70	1.29	0.62	80.00	
144	110	2	22.00	0.85	6.20	2.70	1.19	0.62	80.00	
IQ35										
18	450	4	16.50	0.85	5.50	2.86	0.96	0.61	72.00	
24	450	4	21.00	0.85	7.00	3.06	1.19	0.68	75.00	
36	400	4	21.00	0.85	8.90	3.65	1.42	0.68	75.00	
48	350	2	32.90	0.82	8.00	2.82	1.50	0.85	82.00	
72	350	2	32.90	0.82	12.00	3.74	2.06	0.89	81.00	
96	270	2	32.90	0.82	12.00	3.72	2.04	0.89	81.00	
144	190	2	32.90	0.82	12.00	3.74	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	70.00	0.90	17.00	8.24	2.94	0.72	65.00	
96	400	2	70.00	0.90	18.00	8.49	3.03	0.72	65.00	
144	300	2	70.00	0.90	19.00	9.10	3.24	0.72	65.00	
IQ70										
18	1100	4				apply				
24	1100	4				apply				
36	950	2	95.00	0.80	18.00	7.37	3.37	0.75	80.00	
48	750	2	95.00	0.80	18.00	7.03	3.21	0.75	80.00	
72	750	2	95.00	0.80	23.00	8.92	4.41	0.80	81.00	
96	550	2	95.00	0.80	22.00	8.43	4.16	0.80	81.00	
144	475	2	95.00	0.80	27.00	9.79	5.14	0.83	83.00	
192	400	2	95.00	0.80	32.00	10.52	5.59	0.83	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				
192	540	2				apply				
IQ91										
144	1000	2				apply				
192	1000	2				apply				
IQ95										
24	2200	4				apply				

All data is approximate

Electrical consumption data

460 V - 3-phase 50Hz motor data

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	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

Electrical consumption data

500 V - 3-phase 50Hz motor data

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	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	
144	75	4	11.00	0.86	3.40	2.29	0.81	0.65	63.00	
IQ25										
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	
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	
IQ35										
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	
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	
IQ40										
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	
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	
IQ70										
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	
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	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	
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	
IQ91										
144	1000	2				apply				
192	1000	2				apply				
IQ95										
24	2200	4	63.00	0.78	30.00	9.51	5.81	0.83	85.00	

All data is approximate

Electrical consumption data

525 V - 3-phase 50Hz motor data

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	1.30	0.83	0.37	0.28	0.05	0.36	58.00	
24	25	4	1.30	0.83	0.40	0.33	0.07	0.38	58.00	
36	25	4	1.30	0.83	0.48	0.43	0.09	0.38	60.00	
48	25	4	1.50	0.83	0.60	0.50	0.11	0.38	60.00	
72	25	4	2.60	0.85	0.80	0.56	0.15	0.50	58.00	
96	25	4	2.60	0.85	0.80	0.68	0.19	0.51	60.00	
IQ12										
18	60	4	2.60	0.85	0.80	0.48	0.13	0.50	58.00	
24	60	4	2.60	0.85	0.80	0.60	0.16	0.50	58.00	
36	60	4	3.30	0.82	1.30	0.60	0.21	0.60	65.00	
48	50	4	3.30	0.82	1.30	0.60	0.21	0.48	60.00	
72	35	4	3.30	0.82	1.30	0.60	0.21	0.47	59.00	
96	30	4	3.30	0.82	1.40	0.60	0.23	0.49	61.00	
IQ18										
18	80	4	3.30	0.82	1.10	0.82	0.17	0.44	52.00	
24	80	4	3.30	0.82	1.30	0.70	0.21	0.48	69.00	
IQ20										
18	150	4	5.90	0.82	1.80	1.30	0.32	0.45	60.00	
24	150	4	5.90	0.82	2.15	1.61	0.40	0.45	60.00	
36	150	4	7.40	0.85	2.30	1.77	0.53	0.55	60.00	
48	150	4	7.40	0.85	2.50	2.14	0.64	0.55	60.00	
72	130	4	10.80	0.85	3.30	2.05	0.76	0.65	63.00	
96	105	4	10.80	0.85	3.35	2.14	0.80	0.65	63.00	
144	75	4	10.80	0.85	3.40	2.18	0.81	0.65	63.00	
IQ25										
18	295	4	10.80	0.85	3.00	1.69	0.63	0.65	63.00	
24	295	4	11.00	0.86	3.30	2.00	0.78	0.65	63.00	
36	220	4	10.80	0.85	3.30	2.00	0.78	0.65	63.00	
48	180	4	10.80	0.85	3.30	2.00	0.77	0.65	63.00	
72	180	2	15.50	0.84	5.70	2.20	1.06	0.62	80.00	
96	170	2	15.50	0.84	6.60	2.20	1.29	0.62	80.00	
144	110	2	15.50	0.84	6.20	2.20	1.19	0.62	80.00	
IQ35										
18	450	4	15.00	0.85	5.50	2.40	0.96	0.61	72.00	
24	450	4	15.00	0.85	6.10	2.40	1.19	0.62	72.00	
36	400	4	18.00	0.85	7.20	2.40	1.42	0.68	75.00	
48	350	2	22.00	0.83	7.30	2.37	1.50	0.85	82.00	
72	350	2	26.20	0.82	10.80	2.70	2.06	0.89	81.00	
96	270	2	26.20	0.82	10.80	2.70	2.04	0.89	81.00	
144	190	2	26.20	0.82	10.80	2.70	2.06	0.89	81.00	
IQ40										
18	750	4	41.00	0.80	7.50	5.05	1.60	0.47	74.00	
24	750	4	41.00	0.80	9.50	5.21	1.98	0.55	76.00	
36	625	4	41.00	0.80	10.00	5.21	2.22	0.60	78.00	
48	500	2				apply				
72	500	2				apply				
96	400	2				apply				
144	300	2				apply				
IQ70										
18	1100	4	52.00	0.78	10.70	6.13	2.34	0.60	70.00	
24	1100	4	52.00	0.78	13.00	6.55	2.91	0.65	75.00	
36	950	2	70.50	0.77	14.00	6.18	3.37	0.75	80.00	
48	750	2	70.50	0.77	14.00	5.89	3.21	0.75	80.00	
72	750	2	70.50	0.77	19.50	7.48	4.41	0.78	83.00	
96	550	2	70.50	0.77	18.50	7.07	4.16	0.78	83.00	
144	475	2	70.50	0.77	22.00	8.20	5.14	0.82	84.00	
192	400	2	70.50	0.77	25.00	8.93	5.59	0.82	84.00	
IQ90										
18	1500	4	66.00	0.79	15.00	8.19	3.19	0.55	78.00	
24	1500	4	66.00	0.79	19.00	8.38	3.96	0.65	80.00	
36	1250	4	66.00	0.79	21.00	8.50	4.44	0.70	82.00	
48	1000	2	100.00	0.98	20.00	11.22	4.29	0.60	70.00	
72	1000	2	100.00	0.98	25.00	14.05	5.87	0.63	73.00	
96	750	2	100.00	0.98	25.00	13.58	5.68	0.63	73.00	
144	640	2	100.00	0.98	30.00	13.59	6.92	0.70	80.00	
192	540	2	100.00	0.98	31.00	13.02	7.55	0.75	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	0.80	85.00	

All data is approximate

Electrical consumption data

550 V - 3-phase 50Hz motor data

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	1.20	0.83	0.37	0.27	0.05	0.36	58.00	
24	25	4	1.30	0.83	0.40	0.31	0.07	0.38	58.00	
36	25	4	1.30	0.83	0.48	0.41	0.09	0.38	60.00	
48	25	4	1.50	0.83	0.60	0.49	0.11	0.38	60.00	
72	25	4	2.40	0.85	0.90	0.53	0.15	0.50	58.00	
96	25	4	2.60	0.85	0.80	0.65	0.19	0.51	60.00	
IQ12										
18	60	4	2.60	0.85	0.80	0.46	0.13	0.50	58.00	
24	60	4	2.60	0.85	0.80	0.57	0.16	0.50	58.00	
36	60	4	2.60	0.85	0.85	0.77	0.21	0.50	58.00	
48	50	4	2.60	0.85	0.85	0.78	0.21	0.50	58.00	
72	35	4	2.60	0.85	0.82	0.74	0.21	0.50	58.00	
96	30	4	3.30	0.82	1.40	0.80	0.23	0.49	61.00	
IQ18										
18	80	4	3.30	0.82	1.10	0.78	0.17	0.44	52.00	
24	80	4	3.30	0.82	1.30	0.67	0.21	0.48	69.00	
IQ20										
18	150	4	5.90	0.82	1.80	1.24	0.32	0.45	60.00	
24	150	4	5.90	0.82	2.15	1.54	0.40	0.45	60.00	
36	150	4	6.90	0.83	2.30	1.69	0.53	0.55	60.00	
48	150	4	7.40	0.85	2.50	2.05	0.64	0.55	60.00	
72	130	4	10.80	0.85	3.30	1.96	0.76	0.65	63.00	
96	105	4	10.80	0.85	3.35	2.04	0.80	0.65	63.00	
144	75	4	10.80	0.85	3.40	2.08	0.81	0.65	63.00	
IQ25										
18	295	4	10.80	0.85	3.00	1.61	0.63	0.65	63.00	
24	295	4	10.80	0.85	3.30	2.00	0.78	0.65	63.00	
36	220	4	10.80	0.85	3.30	2.00	0.78	0.65	63.00	
48	180	4	10.80	0.85	3.30	1.98	0.77	0.65	63.00	
72	180	2	16.50	0.82	4.50	1.85	1.06	0.80	75.00	
96	170	2	16.50	0.82	5.20	2.25	1.29	0.80	75.00	
144	110	2	16.50	0.82	5.00	2.08	1.19	0.80	75.00	
IQ35										
18	450	4	15.00	0.85	5.50	2.29	0.96	0.61	72.00	
24	450	4	15.00	0.85	6.10	2.80	1.19	0.62	72.00	
36	400	4	18.00	0.85	7.20	2.92	1.42	0.68	75.00	
48	350	2	25.00	0.83	6.50	2.13	1.50	0.88	84.00	
72	350	2	25.00	0.83	8.50	2.92	2.06	0.88	84.00	
96	270	2	25.00	0.83	8.50	2.90	2.04	0.88	84.00	
144	190	2	25.00	0.83	8.50	2.92	2.06	0.88	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			
144	300	2					apply			
IQ70										
18	1100	4					apply			
24	1100	4					apply			
36	950	2	76.00	0.78	14.00	5.90	3.37	0.75	80.00	
48	750	2	76.00	0.78	14.00	5.62	3.21	0.75	80.00	
72	750	2	76.00	0.78	19.50	7.14	4.41	0.78	83.00	
96	550	2	76.00	0.78	18.50	6.75	4.16	0.78	83.00	
144	475	2	76.00	0.78	22.00	7.83	5.14	0.82	84.00	
192	400	2	76.00	0.78	25.00	8.52	5.59	0.82	84.00	
IQ90										
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	0.60	70.00	
72	1000	2	100.00	0.98	25.00	13.41	5.87	0.63	73.00	
96	750	2	100.00	0.98	25.00	12.96	5.68	0.63	73.00	
144	640	2	100.00	0.98	30.00	12.98	6.92	0.70	80.00	
192	540	2	100.00	0.98	31.00	12.43	7.55	0.75	85.00	
IQ91										
144	1000	2					apply			
192	1000	2					apply			
IQ95										
24	2200	4					apply			

All data is approximate

Electrical consumption data

660 V - 3-phase 50Hz motor data

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	1.11	0.85	0.28	0.22	0.05	0.40	54.00	
24	25	4	1.11	0.85	0.30	0.27	0.07	0.40	54.00	
36	25	4	1.40	0.87	0.45	0.32	0.09	0.52	47.00	
48	25	4	1.40	0.87	0.48	0.38	0.11	0.52	47.00	
72	25	4	2.28	0.83	0.66	0.48	0.15	0.52	51.00	
96	25	4	2.28	0.83	0.82	0.50	0.19	0.57	58.00	
IQ12										
18	60	4	2.28	0.83	0.61	0.44	0.13	0.50	51.00	
24	60	4	2.28	0.83	0.80	0.45	0.16	0.55	56.00	
36	60	4	3.00	0.87	1.05	0.84	0.21	0.46	48.00	
48	50	4	3.00	0.87	1.05	0.85	0.21	0.46	48.00	
72	35	4	3.00	0.87	1.00	0.81	0.21	0.46	48.00	
96	30	4	3.50	0.84	1.00	0.88	0.23	0.45	50.00	
IQ18										
18	80	4	3.00	0.87	0.95	0.79	0.17	0.44	43.00	
24	80	4	3.50	0.84	1.00	0.82	0.21	0.45	50.00	
IQ20										
18	150	4	5.80	0.83	1.55	1.11	0.32	0.42	60.00	
24	150	4	5.80	0.83	1.80	1.38	0.40	0.42	60.00	
36	150	4	7.60	0.82	2.40	1.83	0.53	0.41	62.00	
48	150	4	8.30	0.82	2.75	1.99	0.64	0.47	60.00	
72	130	4	8.30	0.82	3.30	2.12	0.76	0.50	63.00	
96	105	4	8.30	0.82	3.35	2.21	0.80	0.50	63.00	
144	75	4	8.30	0.82	3.50	2.25	0.81	0.50	63.00	
IQ25										
18	295	4	10.00	0.82	3.20	2.37	0.63	0.40	58.00	
24	295	4	10.00	0.82	3.60	2.70	0.78	0.42	60.00	
36	220	4	8.30	0.82	3.00	1.91	0.78	0.55	65.00	
48	180	4	8.30	0.82	3.00	1.89	0.77	0.55	65.00	
72	180	2	14.00	0.83	3.80	1.80	1.06	0.66	78.00	
96	170	2	14.00	0.83	4.40	2.19	1.29	0.66	78.00	
144	110	2	14.00	0.83	4.00	2.02	1.19	0.66	78.00	
IQ35										
18	450	4	11.40	0.84	3.80	1.69	0.96	0.67	74.00	
24	450	4	15.00	0.85	4.70	2.03	1.19	0.70	73.00	
36	400	4	15.00	0.85	5.90	2.43	1.42	0.70	73.00	
48	350	2	13.00	0.81	5.60	1.68	1.50	0.88	89.00	
72	350	2	18.00	0.82	8.00	2.38	2.06	0.89	85.00	
96	270	2	18.00	0.82	8.00	2.36	2.04	0.89	85.00	
144	190	2	18.00	0.82	8.00	2.38	2.06	0.89	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				
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

Electrical consumption data

690 V - 3-phase 50Hz motor data

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	0.89	0.87	0.25	0.17	0.05	0.55	48.00	
24	25	4	1.11	0.85	0.30	0.26	0.07	0.40	54.00	
36	25	4	1.11	0.85	0.40	0.21	0.09	0.58	60.00	
48	25	4	1.40	0.87	0.48	0.37	0.11	0.52	47.00	
72	25	4	1.76	0.82	0.65	0.35	0.15	0.58	60.00	
96	25	4	2.28	0.83	0.82	0.48	0.19	0.57	58.00	
IQ12										
18	60	4	2.28	0.83	0.61	0.42	0.13	0.50	51.00	
24	60	4	2.28	0.83	0.80	0.43	0.16	0.55	56.00	
36	60	4	3.00	0.87	1.05	0.81	0.21	0.46	48.00	
48	50	4	3.00	0.87	1.05	0.81	0.21	0.46	48.00	
72	35	4	3.00	0.87	1.00	0.78	0.21	0.46	48.00	
96	30	4	3.00	0.87	1.10	0.86	0.23	0.46	48.00	
IQ18										
18	80	4	3.00	0.87	0.95	0.75	0.17	0.44	43.00	
24	80	4	3.00	0.87	1.05	0.80	0.21	0.46	48.00	
IQ20										
18	150	4	4.50	0.84	1.49	1.07	0.32	0.50	50.00	
24	150	4	5.36	0.83	1.75	1.34	0.40	0.42	59.00	
36	150	4	5.36	0.83	2.30	1.44	0.53	0.50	62.00	
48	150	4	6.45	0.83	2.30	1.37	0.64	0.51	77.00	
72	130	4	8.60	0.82	3.30	2.03	0.76	0.50	63.00	
96	105	4	8.60	0.82	3.35	2.11	0.80	0.50	63.00	
144	75	4	8.60	0.82	3.50	2.15	0.81	0.50	63.00	
IQ25										
18	295	4	8.60	0.82	2.60	1.67	0.63	0.50	63.00	
24	295	4	8.60	0.82	3.30	2.07	0.78	0.50	63.00	
36	220	4	8.60	0.82	3.00	1.83	0.78	0.55	65.00	
48	180	4	8.60	0.82	3.00	1.81	0.77	0.55	65.00	
72	180	2	14.00	0.83	3.80	1.72	1.06	0.66	78.00	
96	170	2	14.00	0.83	4.40	2.09	1.29	0.66	78.00	
144	110	2	14.00	0.83	4.00	1.93	1.19	0.66	78.00	
IQ35										
18	450	4	12.00	0.84	3.60	1.57	0.96	0.68	75.00	
24	450	4	12.00	0.84	4.60	1.95	1.19	0.68	75.00	
36	400	4	15.00	0.85	5.90	2.32	1.42	0.70	73.00	
48	350	2	13.00	0.81	5.60	1.60	1.50	0.88	89.00	
72	350	2	18.00	0.82	8.00	2.27	2.06	0.89	85.00	
96	270	2	18.00	0.82	8.00	2.26	2.04	0.89	85.00	
144	190	2	18.00	0.82	8.00	2.27	2.06	0.89	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	0.72	80.00	
72	500	2	37.00	0.89	11.00	4.27	2.94	0.72	80.00	
96	400	2	37.00	0.89	11.00	4.40	3.03	0.72	80.00	
144	300	2	37.00	0.89	12.00	4.71	3.24	0.72	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				
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	75.00	0.92	15.50	9.75	5.68	0.65	75.00	
144	640	2				apply				
192	540	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

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