



Certificate: 2648610

Master Contract: 153247

Project: 80161527

Date Issued: 2024-03-22

IQ18	80	11.8	0.78 – 0.88	4.2
IQ19	100	50.0	0.73-0.89	4.6
IQ20	150	50.0	0.73 – 0.89	13.5
IQ25	295	60.0	0.79 – 0.89	19.0
IQ35	450	95.0	0.77 – 0.93	28.0
IQ40	750	155.0	0.74 – 0.93	42.0
IQ70	1100	200.0	0.70 – 0.93	72.0
IQ90	1500	250.0	0.75 – 0.97	90.0
IQ91*	1000	250.0	0.59 – 0.86	80.0
IQ95	2200	200.0	0.75 – 0.89	80.0

*IQ91 is not available for 3 phase voltages below 380V

IQH Range of Electric Valve Actuators are identical to the models above except for a lengthened motor cover to accommodate the addition of a high ratio gearbox fitted directly between the motor and main housing. The actuator range consisting of the following model types:

IQH Range of Electric Valve Actuator

Model(s)	Rated Output Torque-Max (lbs.ft.)	Motor Locked Rotor Current-Max (A)	Motor Locked Rotor Power Factor	Rated Output Current-Max (A)
IQH20	55	50.0	0.73 – 0.89	13.5
IQH25	80	60.0	0.79 – 0.89	19.0
IQH35	149	95.0	0.77 – 0.93	28.0
IQH40	293	155.0	0.74 – 0.93	42.0

IQ Range of Electric Valve Actuators rated 600V or less, 3 phase 50 or 60Hz, with an output speed between 18 and 86 rpm, with a maximum duty cycle of 1200 starts per hour with a 50% duration factor at rated output modulating load, maximum external remote control load 120Vac, 24Vdc, 5W; maximum external load contacts 150Vac 3.5A inductive, 5A resistive, no more than 8A in total for any four contacts (as standard) and no more than 8A in total for any four additional contacts (if fitted), operating ambient temperature range -50°C to +70°C. The actuator range consists of the following model types:

IQM Range of Electric Valve Actuator

Model(s)	Rated Output Modulating Torque-Max (lbs.ft.)	Motor Locked Rotor Current-Max (A)	Motor Locked Rotor Power Factor	Rated Output Current-Max (A)
IQM10	12.5	2.6	0.82 – 0.89	0.7
IQM12	25	4.0	0.79 – 0.90	1.3



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IQM20	60	6.3	0.74 – 0.88	1.7
IQM25	112.5	10.2	0.75 – 0.83	4.2
IQM35	200	26.0	0.83 – 0.90	6.2

IQ Range of Electric Valve Actuators rated 240V or less, 1 phase 50 or 60Hz, with an output speed between 18 and 173 rpm, with a maximum duty cycle of 15 min with a 25% duration factor at 33% rated output load, maximum external remote control load 120Vac, 24Vdc, 5W; maximum external load contacts 150Vac 3.5A inductive, 5A resistive, no more than 8A in total for any four contacts (as standard) and no more than 8A in total for any four additional contacts (if fitted), operating ambient temperature range -50°C to +70°C. The actuator range consists of the following model types:

IQS Range of Electric Valve Actuator

Model(s)	Rated Output Torque-Max (lbs.ft.)	Motor Locked Rotor Current-Max (A)	Motor Locked Rotor Power Factor	Rated Output Current-Max (A)
IQS12	48	20.0	0.94 – 0.98	12.0
IQS20	122	48.0	0.92 – 0.98	26.5
IQS35*	332	70.0	0.82 – 0.98	27.0

*IQ35 is not available for 1 phase voltages below or equal to 115V

APPLICABLE REQUIREMENTS

CSA C22.2 No. 61010-1-12, Rev May 11, 2012 - Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use

UL 61010-1, 3rd Edition (May 11, 2012) - UL Standard for Safety Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements - Third Edition



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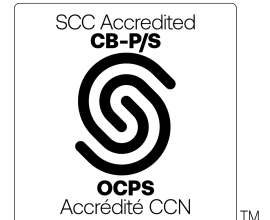
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Notes:

Products certified under Class(es) C225206, C225286 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80161527	2024-03-22	Update of Report 2648610 to add alternate motor contactor, Schneider LC1D32F7.
80185779	2024-01-25	Variation to CSA 2648610 for addition of the Ethernet option card and the RJ45/M12 Connection board.
80161528	2023-11-27	Update of Report 2648610 to correct standards of existing thermistor, S05.150.05, to UL 60730-1, UL 60730-2-9, CSA-E60730-1 and CSA- E60730-2-9, as noted in UL listing E54236.
80144110	2022-12-09	Update of Report 2648610 to add alternative, interchangeable component to existing Omron G6CK-211P-US relay on the optional relay board.
80132897	2022-09-05	Update to Report 2648610 to permit interchangeability of some components.
80060867	2020-12-07	Update to Report 2648610 to add anti-condensation resistor heater and permit the use of A26-30-01 (larger contactor already approved for higher rated actuators) for use with all variants.
80004782	2019-10-07	Update to Report 2648610 to change altitude from 2000m to 5000m for IQ3 Model Range variants with voltages up to 24Vdc and 480Vac Input, No user input or output facilities except for 24VDC input I/O and addition of alternate motor by Honest to the report with same or better specifications / ratings.
70214467	2019-03-15	Update to Report 2648610 to add an alternate component for the motor contactor to the LOCC with same ratings.
70173090	2018-03-22	Update to Report 2648610 to include the introduction of 2 new optional relay boards PCBA 162661 and 162691. Additional changes for RoHS compliance and alternative components added.



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70106419	2017-11-23	Update to Report 2648610 to include the addition of new design terminal bung /plug/socket for IQ range.
70158419	2017-11-07	Update to Report 2648610 to include the Introduction of Loctite 5607® as alternative sealant for the viewing window. An alternative electrical cover manufactured in aluminum alloy to ASTM B85, Grade: A360 modified to accept an anti-vandal fixture. Other minor design changes including the introduction of alternative grade 12.9 fasteners and minor changes to internal non-electrical components for operational reasons.
70099029	2016-12-07	Update to Report 2648610 to add alternative recognized transformer, Type 105501.
70047923	2015-10-29	Update to Report 2648610 to include the Introduction of size IQ19 Motor. Clarification of the details relating to the Network Disconnect devices installed within the deep cover versions.
70014798	2015-09-14	Update to Report 2648610 to Introduce of Wolong Electric Group Co Ltd as an additional motor manufacturer for the 3Ø Brook Motor.
70035164	2015-07-27	Update to Report 2648610 to include the addition of new control assembly board for IQ3 SIL variants.
70005772	2014-07-24	Update to Report 2648610 for addition of an optional lightning suppression module and associated component information to critical component table
70005764	2014-07-24	Update to Report 2648610 - Introduction of alternative 'deep' terminal cover with wireless or network disconnect card fitted within and added associated component information to critical component table
2708187	2014-03-26	Update to Report 2648610 ED 2 to add model variants IQH 20/25/35&40 (fitted with high ration gearboxes), which are identical to the base IQ models except for extended motor covers to accommodate gear box fitted between the motor and main housing.
2699829	2014-02-04	Update to Report 2648610 - Introduction of the phrase [INT] has been added to component U21 on the Folomatic CPT (optional) PCB.
2648610	2014-01-07	Original Certification of IQ Range of Electric Valve Actuators for ordinary locations; IQ10, IQ12, IQ18, IQ20, IQ25, IQ35, IQ40, IQ70, IQ90, IQ91, IQ95, IQS12, IQS20 and IQS35.