



Certificate: 80077582

Master Contract: 241328

Project: 80194101

Date Issued: 01/18/2024

H112	2	≤ 7.00	≤ 7.50(7,5 min on, 2,5 min off)	≤ 8.20(6 min on,4 min off)	≤ 8.80 (4 min on,6 min off)	3000[1/min]
	4	≤ 4.00	≤ 4.30(7,5 min on, 2,5 min off)	≤ 4.70 (6 min on,4 min off)	≤ 5.00 (4 min on,6 min off)	1500[1/min]
	6	≤ 2.20	≤ 2.35(7,5 min on, 2,5 min off)	≤ 2.60(6 min on,4 min off)	≤ 2.80(4 min on,6 min off)	1000[1/min]
H80	2	≤ 1.10	≤ 1.30(7,5 min on, 2,5 min off)	≤ 1.40 (6 min on,4 min off)	≤ 1.70(4 min on,6 min off)	3000[1/min]
	4	≤ 0.90	≤ 1.00(7,5 min on, 2,5 min off)	≤ 1.10 (6 min on,4 min off)	≤ 1.30(4 min on,6 min off)	1500[1/min]
	6	≤ 0.55	≤ 0.60(7,5 min on, 2,5 min off)	≤ 0.70 (6 min on,4 min off)	≤ 0.80(4 min on,6 min off)	1000[1/min]
	8	≤ 0.30	≤ 0.35(7,5 min on, 2,5 min off)	≤ 0.40 (6 min on,4 min off)	≤ 0.45(4 min on,6 min off)	750[1/min]
H90	2	≤ 3.50	≤ 3.70(7,5 min on, 2,5 min off)	≤ 3.80 (6 min on,4 min off)	≤ 4.30(4 min on,6 min off)	3000[1/min]
	4	≤ 2.20	≤ 2.30(7,5 min on, 2,5 min off)	≤ 2.40 (6 min on,4 min off)	≤ 2.70(4 min on,6 min off)	1500[1/min]
	6	≤ 1.10	≤ 1.15(7,5 min on, 2,5 min off)	≤ 1.20(6 min on,4 min off)	≤ 1.35(4 min on,6 min off)	1000[1/min]
M1 / H71	2	≤ 0.9	≤ 1.00(7,5 min on, 2,5 min off)	≤ 1.1 (6 min on,4 min off)	≤ 1.30(4 min on,6 min off)	3000[1/min]
	4	≤ 0.84	≤ 0.90(7,5 min on, 2,5 min off)	≤ 1.05 (6 min on,4 min off)	≤ 1.20(4 min on,6 min off)	1500[1/min]
	6	≤ 0.37	≤ 0.40(7,5 min on, 2,5 min off)	≤ 0.50 (6 min on,4 min off)	≤ 0.60(4 min on,6 min off)	1000[1/min]
	8	≤ 0.18	≤ 0.20(7,5 min on, 2,5 min off)	≤ 0.23 (6 min on,4 min off)	≤ 0.28(4 min on,6 min off)	750[1/min]
	12	≤ 0.10	≤ 0.12(7,5 min on, 2,5 min off)	≤ 0.13 (6 min on,4 min off)	≤ 0.16(4 min on,6 min off)	500[1/min]

3- phase squirrel cage induction asynchronous motors, Aluminum housing, series type H, size 71, 80, 90, 100, 112 and M1, flange and foot mounted, 0 – 690 V ac, rated TEFC and TEBC-Motors; 0 - 60Hz

Model(s)	Pole(s)	Power Duty cont (kW)	Power Int. Duty (kW)	Power Int. Duty (kW)	Power Int. Duty (kW)	Max Speed
H100	2	≤ 6.60	≤ 6.90(7,5 min on, 2,5 min off)	≤ 7.20(6 min on,4 min off)	≤ 7.60(4 min on,6 min off)	3600[1/min]
	4	≤ 4.80	≤ 5.00(7,5 min on, 2,5 min off)	≤ 5.30 (6 min on,4 min off)	≤ 5.60 (4 min on,6 min off)	1800[1/min]



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	6	<= 1.80	<= 1.90(7,5 min on, 2,5 min off)	<= 2.00(6 min on,4 min off)	<= 2.20(4 min on,6 min off)	1200[1/min]
H112	2	<= 8.40	<= 9.0(7,5 min on, 2,5 min off)	<= 9.8 (6 min on,4 min off)	<= 10.5(4 min on,6 min off)	3600[1/min]
	4	<= 4.80	<= 5.20(7,5 min on, 2,5 min off)	<= 5.60 (6 min on,4 min off)	<= 6.00(4 min on,6 min off)	1800[1/min]
	6	<= 2.60	<= 2.80(7,5 min on, 2,5 min off)	<= 3.10(6 min on,4 min off)	<= 3.40(4 min on,6 min off)	1200[1/min]
H80	2	<= 1.30	<= 1.50(7,5 min on, 2,5 min off)	<= 1.70 (6 min on,4 min off)	<= 2.00(4 min on,6 min off)	3600[1/min]
	4	<= 1.10	<= 1.20(7,5 min on, 2,5 min off)	<= 1.30 (6 min on,4 min off)	<= 1.60(4 min on,6 min off)	1800[1/min]
	6	<= 0.66	<= 0.70(7,5 min on, 2,5 min off)	<= 0.80 (6 min on,4 min off)	<= 1.00(4 min on,6 min off)	1200[1/min]
	8	<= 0.36	<= 0.40(7,5 min on, 2,5 min off)	<= 0.50 (6 min on,4 min off)	<= 0.55(4 min on,6 min off)	900[1/min]
H90	2	<= 4.20	<= 4.40(7,5 min on, 2,5 min off)	<= 4.60(6 min on,4 min off)	<= 5.20(4 min on,6 min off)	3600[1/min]
	4	<= 2.60	<= 2.75(7,5 min on, 2,5 min off)	<= 2.90 (6 min on,4 min off)	<= 3.20 (4 min on,6 min off)	1800[1/min]
	6	<= 1.30	<= 1.40(7,5 min on, 2,5 min off)	<= 1.50 (6 min on,4 min off)	<= 1.60(4 min on,6 min off)	1200[1/min]
M1 / H71	2	<= 1.1	<= 1.20(7,5 min on, 2,5 min off)	<= 1.30 (6 min on,4 min off)	<= 1.55(4 min on,6 min off)	3600[1/min]
	4	<= 1.0	<= 1.10(7,5 min on, 2,5 min off)	<= 1.25 (6 min on,4 min off)	<= 1.40(4 min on,6 min off)	1800[1/min]
	6	<= 0.45	<= 0.50(7,5 min on, 2,5 min off)	<= 0.60 (6 min on,4 min off)	<= 0.70(4 min on,6 min off)	1200[1/min]
	8	<= 0.22	<= 0.25(7,5 min on, 2,5 min off)	<= 0.28 (6 min on,4 min off)	<= 0.35(4 min on,6 min off)	900[1/min]
	12	<= 0.12	<= 0.14(7,5 min on, 2,5 min off)	<= 0.15 (6 min on,4 min off)	<= 0.20(4 min on,6 min off)	600[1/min]

3- phase squirrel cage induction asynchronous motors, Aluminum housing, series type H, size 71, 80, 90, 100, 112 and M1, flange and foot mounted, 0 – 690 V ac, rated: TEFC and TEBC-Motors; 0 - 87Hz

Model(s)	Pole(s)	Power Duty cont (kW)	Power Int. Duty (kW)	Power Int. Duty (kW)	Power Int. Duty (kW)	Max Speed
H100	2	<= 6.60	<= 6.90(7,5 min on, 2,5 min off)	<= 7.20 (6 min on,4 min off)	<= 7.60 (4 min on,6 min off)	3600[1/min]



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	4	<= 6.90	<= 7.30(7,5 min on, 2,5 min off)	<= 7.60 (6 min on,4 min off)	<= 8.10 (4 min on,6 min off)	2600[1/min]
	6	<= 2.60	<= 2.80(7,5 min on, 2,5 min off)	<= 2.90(6 min on,4 min off)	<= 3.10(4 min on,6 min off)	1730[1/min]
HI 12	2	<= 8.40	<= 9.0(7,5 min on, 2,5 min off)	<= 9.8 (6 min on,4 min off)	<= 10.5(4 min on,6 min off)	3600[1/min]
	4	<= 6.90	<= 7.40(7,5 min on, 2,5 min off)	<= 8.10 (6 min on,4 min off)	<= 8.70 (4 min on,6 min off)	2600[1/min]
	6	<= 3.80	<= 4.10(7,5 min on, 2,5 min off)	<= 4.50 (6 min on,4 min off)	<= 4.80 (4 min on,6 min off)	1730[1/min]
H80	2	<= 1.30	<= 1.50(7,5 min on, 2,5 min off)	<= 1.70 (6 min on,4 min off)	<= 2.00(4 min on,6 min off)	3600[1/min]
	4	<= 1.60	<= 1.70(7,5 min on, 2,5 min off)	<= 1.90 (6 min on,4 min off)	<= 2.20(4 min on,6 min off)	2600[1/min]
	6	<= 0.95	<= 1.00(7,5 min on, 2,5 min off)	<= 1.20(6 min on,4 min off)	<= 1.40(4 min on,6 min off)	1730[1/min]
	8	<= 0.50	<= 0.60(7,5 min on, 2,5 min off)	<= 0.70 (6 min on,4 min off)	<= 0.8(4 min on,6 min off)	1300[1/min]
H90	2	<= 4.20	<= 4.40(7,5 min on, 2,5 min off)	<= 4.60 (6 min on,4 min off)	<= 5.20(4 min on,6 min off)	3600[1/min]
	4	<= 3.80	<= 3.90(7,5 min on, 2,5 min off)	<= 4.10 (6 min on,4 min off)	<= 4.60(4 min on,6 min off)	2600[1/min]
	6	<= 1.90	<= 2.00(7,5 min on, 2,5 min off)	<= 2.10 (6 min on,4 min off)	<= 2.30(4 min on,6 min off)	1730[1/min]
M1 / H71	2	<= 1.10	<= 1.20(7,5 min on, 2,5 min off)	<= 1.30 (6 min on,4 min off)	<= 1.55(4 min on,6 min off)	3600[1/min]
	4	<= 1.45	<= 1.55(7,5 min on, 2,5 min off)	<= 1.90 (6 min on,4 min off)	<= 2.20(4 min on,6 min off)	2600[1/min]
	6	<= 0.64	<= 0.70(7,5 min on, 2,5 min off)	<= 0.80(6 min on,4 min off)	<= 1.00(4 min on,6 min off)	1730[1/min]
	8	<= 0.30	<= 0.35(7,5 min on, 2,5 min off)	<= 0.40 (6 min on,4 min off)	<= 0.47(4 min on,6 min off)	1300[1/min]
	12	<= 0.17	<= 0.20(7,5 min on, 2,5 min off)	<= 0.22 (6 min on,4 min off)	<= 0.27(4 min on,6 min off)	870[1/min]

3- phase squirrel cage induction asynchronous motors, Aluminum housing, series type H, size 71, 80, 90, 100, 112 and M1, flange and foot mounted, 0 – 690 V ac, rated: TENV - Motors; 0 - 87Hz

Model(s)	Pole(s)	Power Duty cont (kW)	Power Int. Duty (kW)	Power Int. Duty (kW)	Power Int. Duty (kW)	Max Speed
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H100	2	<= 1.60	<= 1.80 (6 min on, 4 min off)	<= 1.90 (4 min on,6 min off)	<= 3.00 (5 min on*)	3600[1/min]
	4	<= 1.50	<= 1.60 (6 min on, 4 min off)	<= 1.80 (4 min on,6 min off)	<= 3.00 (5 min on*)	2600[1/min]
	6	<= 1.00	<= 1.10 (6 min on, 4 min off)	<= 1.20 (4 min on,6 min off)	<= 1.50 (5 min on*)	1730[1/min]
H112	2	<= 2.50	<= 2.80 (6 min on, 4 min off)	<= 3.00 (4 min on,6 min off)	<= 4.00 (5 min on*)	3600[1/min]
	4	<= 2.00	<= 2.40 (6 min on, 4 min off)	<= 2.60 (4 min on,6 min off)	<= 4.00 (5 min on*)	2600[1/min]
	6	<= 1.30	<= 1.50 (6 min on, 4 min off)	<= 1.70 (4 min on,6 min off)	<= 2.20 (5 min on*)	1730[1/min]
H80	2	<= 0.90	<= 1.10(6 min on, 4 min off)	<= 1.40(6 min on,4 min off)	<= 1.50 (5 min on*)	3600[1/min]
	4	<= 0.90	<= 1.10(6 min on, 4 min off)	<= 1.30 (6 min on,4 min off)	<= 1.30 (5 min on*)	2600[1/min]
	6	<= 0.45	<= 0.60(6 min on, 4 min off)	<= 0.66(6 min on,4 min off)	<= 0.75 (5 min on*)	1730[1/min]
	8	<= 0.25	<= 0.33(6 min on, 4 min off)	<= 0.37(6 min on,4 min off)	<= 0.37 (5 min on*)	1300[1/min]
H90	2	<= 1.30	<= 1.40 (6 min on, 4 min off)	<= 1.60 (4 min on,6 min off)	<= 2.20 (5 min on*)	3600[1/min]
	4	<= 1.00	<= 1.10 (6 min on, 4 min off)	<= 1.20 (4 min on,6 min off)	<= 1.50 (5 min on*)	2600[1/min]
	6	<= 0.70	<= 0.75 (6 min on, 4 min off)	<= 0.90 (4 min on,6 min off)	<= 1.10 (5 min on*)	1730[1/min]
M1 / H71	2	<= 0.45	<= 0.55 (6 min on, 4 min off)	<= 0.65 (4 min on,6 min off)	<= 0.75 (5 min on*)	3600[1/min]
	4	<= 0.40	<= 0.50 (6 min on, 4 min off)	<= 0.55 (4 min on,6 min off)	<= 0.55 (5 min on*)	2600[1/min]
	6	<= 0.25	<= 0.30 (6 min on, 4 min off)	<= 0.37 (4 min on,6 min off)	<= 0.37 (5 min on*)	1730[1/min]
	8	<= 0.15	<= 0.15 (6 min on, 4 min off)	<= 0.15 (4 min on,6 min off)	<= 0.15 (5 min on*)	1300[1/min]
	12	<= 0.06	<= 0.08 (6 min on, 4 min off)	<= 0.11 (4 min on,6 min off)	<= 0.11 (5 min on*)	870[1/min]

* Motor operation is only permitted again when it has cooled down to room temperature.

Notes:



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1. Motor series designation is completed with additional letters and figures indicating frame size, gear type, static torque, number of poles, resolver type, optional features etc.
2. Main terminal box for connection of supply is not tested to be used with metallic conduit. Solely cable glands shall be used for external connections.
3. Start capacitor is not part of the certification. Capacitor type, size and certification shall be selected, installed per installation instructions.
4. Cable glands, optional, and cable/cords when not part of the motor they shall be selected per CEC, part 1 or NEC.

Single phase squirrel cage induction motor, Aluminum housing, HB80 Series, flange and foot mounted

Model(s)	Voltage (V)	Current (A)	Pole(s)	Frequency (Hz)	Power (HP)	Speed (RPM)	Service Factor
HB80 Series	115	11.3	4	50	1.21	1800	1.0
	230	6.4	2	50	1.5	3600	1.0

APPLICABLE REQUIREMENTS

CSA C22.2 No. 100-14 (Upd.1 April 2017)(Seventh Edition) (R2019) - Motors and generators

ANSI/UL 1004-1 (Second Edition) - UL Standard for Safety Rotating Electrical Machines – General Requirements



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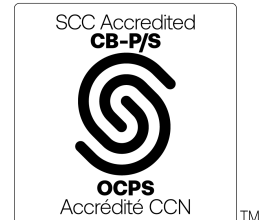
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Notes:

Products certified under Class C421101 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
80194101	January 18, 2024	Update to Report 80077582 to update the nomenclature and addition of alternative electrical insulation systems (EIS), varnishes and reel chain system (optional)
80158200	June 05, 2023	Update to Report 80077582, addition of new series Type H + M1 - size 71, 80, 90, 100, 112 TEFC , TEBC and TENV rated 0-690 Vac 50/60 Hz or 0-87 Hz, max. 10.5 Kw to the requirements of UL1004-1(2nd ed.), CSA C22.2 No.100-14(R2019).
80077582	May 18, 2022	Initial cCSAus Certification of component type 1Ph squirrel cage induction motors, model H80- 4 poles, 115 V,60 Hz, 0.9 Kw and 230 V, 2 POLES, 1.1 kW, 50 Hz.