



Certificate of Compliance

Certificate: 70049278 **Master Contract:** 189724
Project: 80276492 **Date Issued:** 2025-12-11
Issued to: M.G.M. Motori Elettrici **Issued by:** Claudio Orlando
S.p.A. Claudio Orlando
Via Fermi 44
Assago (MI), Milano 20090
Italy

Attention: Francesco Ghieri

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



PRODUCTS

Class 4211 01 MOTORS AND GENERATORS - Motors and Generators
Class 4211 81 MOTORS AND GENERATORS - Certified to US Standards

Three phase squirrel cage induction component type motors; foot and/or flange mounted to enclosure with changeable position.; types SMX, BMX, BAX, BAHX; 0.75 to 90 kW; 600 V or less; 50 or 60Hz, inverter duty (max.120 Hz); 2 to 6 pole; insulation class F, ambient 40°C, frame size 80 to 280; SF 1 to 1.15; TEFC.

Model(s)	Ambient Temp (°C)	Enclosure	Frame Size	Insulation Class	Rated Power (kW)	Rated Voltage (VAC)	Pole(s)	Frequency (Hz)
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Certificate: 70049278

Master Contract: 189724

Project: 80276492

Date Issued: 2025-12-11

SMX, BMX, BAX, BAHX	40	TEFC	80, 90, 100, 112, 132, 160, 180, 200, 225, 250, 280	F	0.75 to 90	600 or less	2, 4, 6	50,60 or 120 Max
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Model(s) (cont.)	Service Factor
SMX, BMX, BAX, BAHX	1 to 1.15

Three phase squirrel cage induction component type motors; foot and/or flange mounted to enclosure with changeable position.; types SMX IE2, BMX IE2, BAX IE2, BAHX IE2; 0.18 to 7.5 kW; 600 V or less; 50 or 60Hz, inverter duty (max.120 Hz); 2 to 4 pole; insulation class F, ambient 40°C, frame size 63 to 132; SF 1 to 1.35; TEFC.

Model(s)	Ambient Temp (°C)	Enclosure	Frame Size	Insulation Class	Rated Power (kW)	Rated Voltage (VAC)	Pole(s)	Frequency (Hz)
SMX IE2, BMX IE2, BAX IE2, BAHX IE2	40	TEFC	63, 71, 80, 90, 100, 112, 132	F	0.18 to 7.5	600 or less	2, 4	50,60 or 120 Max

Model(s) (cont.)	Service Factor
SMX IE2, BMX IE2, BAX IE2, BAHX IE2	1 to 1.35

Three phase squirrel cage induction component type motors; foot and/or flange mounted to enclosure with changeable position.; types SM, BM; 0.04/0.048 to 45/54 kW; 600 V or less; 50 or 60Hz, inverter duty (max.120 Hz); 2 to 12, 2/4, 4/8, 2/6, 2/8, 4/6, 4/12, 2/12, 4/16 pole; insulation class F, ambient 40°C, frame size 56 to 225 ; SF 1; TEFC.

Model(s)	Ambient Temp (°C)	Enclosure	Frame Size	Insulation Class	Rated Power (kW)	Rated Voltage (VAC)	Pole(s)	Frequency (Hz)
SM, BM	40	TEFC	56, 63, 71, 80, 90, 100, 112, 132, 160, 180, 200, 225	F	0.04/0.048 to 45/54	600 or less	2, 4, 6, 8, 12, 2/4, 4/8, 2/6, 2/8, 4/6, 4/12, 2/12, 4/16	50,60 or 120 Max

Three phase squirrel cage induction component type motors; foot and/or flange mounted to enclosure with changeable position.; types BA, BAH; 0.04/0.048 to 45/62.1 kW; 600 V or less; 50 or 60Hz, inverter duty (max.120 Hz); 2 to 12, 2/4, 4/8, 2/6, 2/8, 4/6, 4/12, 2/12, 4/16 pole; insulation class F, ambient 40°C, frame size 71 to 225; SF 1; TEFC.



Certificate: 70049278

Master Contract: 189724

Project: 80276492

Date Issued: 2025-12-11

Model(s)	Ambient Temp (°C)	Enclosure	Frame Size	Insulation Class	Rated Power (kW)	Rated Voltage (VAC)	Pole(s)	Frequency (Hz)
BA, BAH	40	TEFC	71, 80, 90, 100, 112, 132, 160, 180, 200, 225	F	0.04/0.048 to 45/62.1	600 or less	2, 4, 6, 8, 12, 2/4, 4/8, 2/6, 2/8, 4/6, 4/12, 2/12, 4/16	50,60 or 120 Max

Three phase squirrel cage induction component type motors; foot and/or flange mounted to enclosure with changeable position.; types SMS; 0.55 to 2.2 kW; 600 V or less; 50 or 60Hz; 2 to 4 pole; insulation class F, ambient 40°C, frame size 71 to 90; SF 1; TENV.

Model(s)	Ambient Temp (°C)	Enclosure	Frame Size	Insulation Class	Rated Power (kW)	Rated Voltage (VAC)	Pole(s)	Frequency (Hz)
SMS	40	TENV	71, 80, 90	F	0.55 to 2.2	600 or less	2, 4	50,60 o

Three phase squirrel cage induction component type motors; foot and/or flange mounted to enclosure with changeable position.; types BS, BSX; 0.18/0.22 to 3.1/ 3.7kW; 600 V or less; 50 or 60Hz; 2 to 8, 2/4, 4/8, 2/6, 2/8, 4/6, 4/12, 2/12 pole; insulation class F, ambient 40°C, frame size 100; SF 1; TEFC.

Model(s)	Ambient Temp (°C)	Enclosure	Frame Size	Insulation Class	Rated Power (kW)	Rated Voltage (VAC)	Pole(s)	Frequency (Hz)
BS, BSX	40	TEFC	100	F	0.18/0.22 to 3.1/3.7	600 or less	2, 4, 6, 8, 2/4, 4/8, 2/6, 2/8, 4/6, 4/12, 2/12	50 or 60

Note1: Intended for use as a component part in other equipment where the acceptability is determined by the CSA Group.

Motors could also be marked for intermittent duty service, S2 or S3, provided that the input rated current is less than or equal to the value indicated for the continuous duty service S1.

Note2: Following models only are suitable to be used in conjunction with Speed drives and evaluated to ANSI/UL 1004-8:2013 - Second Edition - Including revisions through November 7, 2023 UL Standard for Safety Inverter Duty Motors/cl.13 CSA C22.2 No. 100-14+Upd.1 (Seventh Edition)(R2019)

Model	Report Description Part
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Certificate: 70049278

Master Contract: 189724

Project: 80276492

Date Issued: 2025-12-11

SM/BM 63 A4 / B4 / C4 / D4	Part A1, B1
SMX/BMX 63 B4	Part A2
SM/BM/BA/BAH/SMX/BMX/BAX/BAHX 71 A4 / B4	Part A1, B1, C1, D1, A2
SM/BM/BA/BAH 71 C4 / D4	Part A1, B1, C1, D1
SM/BM/BA/BAH/SMX/BMX/BAX/BAHX 80 A4 / B4	Part A1, B1, C1, D1, A, B, C, D, A2
SM/BM/BA/BAH 80 C4	Part A1, B1, C1, D1
SM/BM/BA/BAH/SMX/BMX/BAX/BAHX 90 SA4 / LA4	Part A1, B1, C1, D1, A, B, C, D
SM/BM/BA/BAH 90 LB4 / LC4	Part A1, B1, C1, D1
SM/BM/BA/BAH/SMX/BMX/BAX/BAHX 100 LA4	Part A1, B1, C1, D1, A, B, C, D



Certificate: 70049278

Master Contract: 189724

Project: 80276492

Date Issued: 2025-12-11

SM/BM/BA/BAH 100 LB4	Part A1, B1, C1, D1
SM/BM/BA/BAH/SMX/BMX/BAX/BAHX 112 MB4	Part A1, B1, C1, D1, A, B, C, D
SM/BM/BA/BAH 112 MBX4	Part A1, B1, C1, D1
SMX/BMX/BAX/BAHX 112 MC4	Part A, B, C, D
With max. 120Hz Example of models SMX/BMX 63 B4 refer to: SMX 63 B4 and BMX 63 B4	

Note3: Following models BA/BAH 71 A4/B4/C4/D4, BA/BAH 80 A4/B4/C4, BA/BAH 90 SA4/LA4/LB4/LC4, BA/BAH 100 LA4/LB4, BA/BAH 112 MB4/MBX4, BA/BAH 132 SB4/MA4/MB4, BA/BAH 160 MA4,MB4/LA4, BA/BAH 180 LA4/LB4, BA/BAH 200 LA4/LB4/S4/M4, BA/BAH 225 S4/M4 can be marked with a power range of 0.8 to 1.15 of nominal power at 60Hz for Intermittent duty S3 (6min on, 4min off).

APPLICABLE REQUIREMENTS

CSA C22.2 No. 100:14 - Seventh Edition - Motors and generators

ANSI/UL 1004-1-2020 - Second Edition - UL Standard for Safety Rotating Electrical Machines - General Requirements - Including revision through November 5, 2020

UL 1004-8:2013 - Second Edition - UL Standard for Safety Inverter Duty Motors



Certificate: 70049278

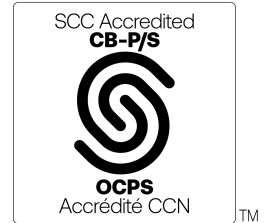
Project: 80276492

Master Contract: 189724

Date Issued: 2025-12-11

Notes:

Products certified under Class(es) 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

Certificate: 70049278

Master Contract: 189724

*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
80276492	2025-12-11	Update to Report 70049278 to add 60Hz Power range for motors BA/BAH 71 A4/B4/C4/D4, BA/BAH 80 A4/B4/C4, BA/BAH 90 SA4/LA4/LB4/LC4, BA/BAH 100 LA4/LB4, BA/BAH 112 MB4/MBX4, BA/BAH 132 SB4/MA4/MB4, BA/BAH 160 MA4,MB4/LA4, BA/BAH 180 LA4/LB4, BA/BAH 200 LA4/LB4/S4/M4, BA/BAH 225 S4/M4 to actual certified power multiplied by 0.8 to 1.15 for Intermittent Duty S3 (6 min on, 4 min off), and testing of representative samples BA90LA4, BA160LA4 under SMTC Program.
80234304	2025-06-25	Update to report 70049278 to extend the range of motors certified as suitable to be used with speed drives including models "SM/BM 63 A4/B4/C4/D4, SMX/BMX 63 B4, SM/BM/BA/BAH/SMX/BMX/BAX/BAHX 71 A4/B4, SM/BM/BA/BAH 71 C4/D4, SM/BM/BA/BAH/SMX/BMX/BAX/BAHX 80 A4/B4, SM/BM/BA/BAH 80 C4, SM/BM/BA/BAH/SMX/BMX/BAX/BAHX 90 SA4/LA4, SM/BM/BA/BAH 90 LB4/LC4,SM/BM/BA/BAH/SMX/BMX/BAX/BAHX 100 LA4, SM/BM/BA/BAH 100 LB4, SM/BM/BA/BAH/SMX/BMX/BAX/BAHX 112 MB4, SM/BM/BA/BAH 112 MBX4, SMX/BMX/BAX/BAHX 112 MC4" according to inverter duty requirements of UL1004-8 and CSA C22.2 100-14 Cl:13, Add alternative Thermal motor protector model MAESTRO X3.CXXXA,add new flanges and frame design and add alternative Magnetic Wire IRCE Salflex 180 already listed in JOHN C DOLPH CO Type: DV-155J, table I and table VI Insulation system, for Brake winding.
80153685	2023-10-26	Update to Report 70049278 to cover alternative construction of model series SMS 80 B4 for power connectors and epoxy compound. Addition of alternative power connectors for model series BA, BM, SM, BAX, BMX, SMX, BAH, BAHX, SMS, BS in report.
80136283	2023-04-06	Update to Report 70049278 to cover the addition of new ratings for series BA71 and BA90 and extension to UL 1004-8 requirements and CSA 22.2 No.100-14 cl.13, inverter duty machines.
80124071	2022-11-14	Update to Report 70049278 to cover the addition of alternate impregnation varnish on electromagnet series BA provided in class A (105°C) and corrections to report.



Certificate: 70049278

Master Contract: 189724

Project: 80276492

Date Issued: 2025-12-11

80082644	2021-07-13	Update to Report 70049278 to cover addition of alternate ratings and components, corrections of models names.
80007059	2019-07-30	Update to Report 70049278 to cover report corrections, addition of model SMS 80 B4 KW 0,75 - Intermittent duty - IP56 or lower protection degree, addition of custom RC filter Man.ACTRONIC series R101. Project: 80234304 Date Issued: 2025-06-25
70200721	2019-03-07	Update to Report 70049278 to cover to cover the addition of motor series from CSA report
70081823	2016-06-29	Update to Report 70049278 for the addition of Intermittent duty cycle S2 or S3.
70049278	2016-03-08	Original Certification of Component type motors, series SMX,BMX,BAX,BAHX, 3 ph, 600V max, 50/60Hz , from 0.75 KW to 90 KW max., ambient temperature 40 °C, 2/4/6 poles, squirrel-cage induction motors, tefc, foot and/or flange mounted to enclosure with changeable position, Insulation Class F, frame sizes 80-90-100-112-132-160-180-200-225-250-280 according to the requirements of CSA 22.2 No.100-14, UL1004-1 (2nd ed.).