



Certificate of Compliance

Certificate: 70049278 **Master Contract:** 189724
Project: 80234304 **Date Issued:** 2025-06-25
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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|------------------------------|----|------|--------------------------------------------------------------|---|------------|-------------|---------|---------------------|
| 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 |

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|-------------------------------------|----------------|
| 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 45/54 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 71 to 225; SF 1; TEFC.



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| 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 45/54 | 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 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):

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; With max. 120Hz

APPLICABLE REQUIREMENTS



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

ANSI/UL 1004-1:2012 - Second Edition - Including Revisions through November 5, 2020 - UL Standard for Safety Rotating Electrical Machines – General Requirements

ANSI/UL 1004-8:2013 - Second Edition - Including revisions through November 7, 2023 - UL Standard for Safety Inverter Duty Motors



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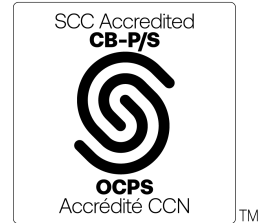
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Notes:

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

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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 |
|----------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
| 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. |



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| 70200721 | 2019-03-07 | Update to Report 70049278 to cover to cover the addition of motor series from CSA report 1309537 and CSA report 1282269, addition of alternate materials and components, corrections to the report and review of the certification attachments. |
| 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.). |