



# Certificate of Compliance

**Certificate:** 1583555

**Master Contract:** 226757

**Project:** 70009380

**Date Issued:** 2015-04-13

**Issued to:** **Minimotor s.r.l.**  
**Via E. Fermi, 5**  
**Bagnolo in Piano (RE), 42011**  
**ITALY**

**Attention:** Mr.Luca Ferretti

*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*



Issued by: Ghislain Foulem  
*Ghislain Foulem*

## PRODUCTS

CLASS No.: 4211 01 - motors and generators

CLASS No.: 4211 81 - motors and generators - Certified to U.S. Standards

- Squirrel-cage induction motors, permanently connected, tefc, horizontal or vertical, foot and/or flange mounted, 480 V or less, single or 3-ph, ambient 40 °C, 50/60 Hz, Ins. Cl. N (200) or H (180) or F (155); 2, 4, poles, flange B5 or B14, external diameter 80 or 95mm.

Motor model is composed by the following: SERIES + OPTIONAL REDUCTOR + OPTION + MOTOR TYPE

Single phase 2 poles 100V 50/60Hz					
Series	Motor type	P (W) (50/60)	I (A) (50/60)	Rpm (50/60)	Optional Reductor
BC2000	M	64 / 72	0,62 / 0,74	2500 / 3000	
BCE2000					
AM	40	28 / 34	0,60 / 0,72	2600 / 3100	--
AC					E , S
ME					--
AM	66	70 / 84	0,78 / 0,94	2600 / 3100	--
AC					E , S
ME					
AM	100P	96 / 115	0,94 / 1,13	2600 / 3100	--
AC					E, S



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MC					E
ME					--
AM					--
AC	160P2	120 / 144	1,25 / 1,50	2600 / 3100	E , S
MC					E
ME					--
AM	180M2	150 / 180	1,56 / 1,88	2700 / 3240	--
PA					E
ME					--
AM	240M3	225 / 270	2,37 / 2,84	2700 / 3240	--
MC					E
PA					E
PC					E
ME					--
AM	330M4	328 / 393	3,45 / 4,15	2700 / 3240	--
PA					E
PC					E
ME					--

Options : K = Brake (24 Vdc or 230 Vac)  
R = Tacho Hall  
RR = Encoder 512 or 50 Imp. (5 or 24 Vdc)

Single phase 2 poles 240V 50/60Hz					
Series	Motor type	P (W) (50/60)	I (A) (50/60)	Rpm (50/60)	Optional Reductor
BC2000	M	64 / 72	0,26 / 0,31	2500 / 3000	--
BCE2000					--
AM	40	28 / 34	0,25 / 0,30	2600 / 3100	--
AC					E , S
ME					--
AM	66	70 / 84	0,33 / 0,39	2600 / 3100	--
AC					E , S
ME					--
AM	100P	96 / 115	0,39 / 0,47	2600 / 3100	--
AC					E , S
MC					E
ME					--
AM	160P2	120 / 144	0,52 / 0,62	2600 / 3100	--
AC					E , S
MC					E
ME					--
AM	180M2	150 / 180	0,65 / 0,78	2700 / 3240	--
PA					E
ME					--
AM	240M3	225 / 270	0,99 / 1,18	2700 / 3240	--
MC					E



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PA					E
PC					E
ME					--
AM					--
PA	330M4	328 / 393	1,44 / 1,72	2700 / 3240	E
PC					E
ME					--

Options: K = Brake (24 Vdc or 230 Vac)  
R = Tacho Hall  
RR = Encoder 512 or 50 Imp. (5 or 24 Vdc)

Single phase 4 poles 100V 50/60Hz					
Series	Motor type	P (W) (50/60)	I (A) (50/60)	Rpm (50/60)	Optional Reductor
AM	35	38 / 46	0,55 / 0,66	1200 / 1440	--
AC					E, S
ME					--
AM	44	43 / 52	0,60 / 0,71	1200 / 1440	--
AC					E, S
ME					--
AM	80P	67 / 80	0,76 / 0,91	1200 / 1440	--
AC					E, S
MC					E
ME					--
AM	110P2	78 / 94	0,94 / 1,13	1200 / 1440	--
AC					E, S
MC					E
ME					--
AM	130M2	96 / 115	1,04 / 1,24	1250 / 1500	--
PA					E
ME					--
AM	165M3	115 / 138	1,22 / 1,46	1250 / 1500	--
MC					E
PA					E
PC					E
ME					--
AM	220M4	160 / 192	1,61 / 1,93	1250 / 1500	--
PA					E
PC					E
ME					--

Options: K = Brake (24 Vdc or 230 Vac)  
R = Tacho Hall  
RR = Encoder 512 or 50 Imp. (5 or 24 Vdc)



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Single phase 4 poles 240V 50/60Hz					
Series	Motor type	P (W) (50/60)	I (A) (50/60)	Rpm (50/60)	Optional Reductor
AM	35	38 / 46	0,23 / 0,28	1200 / 1440	--
AC					E , S
ME					--
AM	44	43 / 52	0,25 / 0,30	1200 / 1440	--
AC					E , S
ME					--
AM	80P	67 / 80	0,32 / 0,38	1200 / 1440	--
AC					E, S
MC					E
ME					--
AM	110P2	78 / 94	0,39 / 0,47	1200 / 1440	--
AC					E , S
MC					E
ME					--
AM	130M2	96 / 115	0,43 / 0,51	1250 / 1500	--
PA					E
ME					--
AM	165M3	115 / 138	0,51 / 0,61	1250 / 1500	--
MC					E
PA					E
PC					E
ME					--
AM					--
AM	220M4	160 / 192	0,67 / 0,811	1250 / 1500	--
PA					E
PC					E
ME					--

Options: K = Brake (24 Vdc or 230 Vac)  
R = Tacho Hall  
RR = Encoder 512 or 50 Imp. (5 or 24 Vdc)

Three-phase 2 poles 100/173 ; 50/60Hz					
Series	Motor type	P (W) (50/60)	I (A) (50/60)	Rpm (50/60)	Optional Reductor
BC2000	T	66 / 79	0,60-0,34 (50)	2500 / 3000	
BCE2000			0,72-0,41 (60)		
AM	72T	54 / 65	0,51-0,29 (50)	2600 / 3100	--
AC			0,61-0,35 (60)		E , S
ME			--		
AM	244PT	120 / 144	1,20-0,69 (50)	2600 / 3100	--



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AC			1,44-0,82 (60)		E, S
MC					E
ME					
AM					--
AC	320P2T	152 / 182	1,42-0,82 (50)	2600 / 3100	E, S
MC			1,71-0,99 (60)		E
ME					--
AM					--
PA	260M2T	140 / 168	1,15-0,66 (50)	2700 / 3240	E
ME			1,38-0,80 (60)		--
AM					--
MC					E
PA	440M3T	278 / 334	2,07-1,20 (50)	2700 / 3240	E
PC			2,48-1,43 (60)		E
ME					--
AM					--
PA	530M4T	390 / 468	3,22-1,86 (50)	2700 / 3240	E
PC			3,86-2,23 (60)		E
ME					--

Options: K = Brake (24 Vdc or 230 Vac)  
R = Tacho Hall  
RR = Encoder 512 or 50 Imp. (5 or 24 Vdc)

Three-phase 2 poles 277/480 50/60Hz					
Series	Motor type	P (W) (50/60)	I (A) (50/60)	Rpm (50/60)	Optional Reductor
BC2000	T	66 / 79	0,22-0,13 (50)	2500 / 3000	
BCE2000			0,27-0,16 (60)		
AM					--
AC	72T	54 / 65	0,18-0,11 (50)	2600 / 3100	E, S
ME			0,22-0,13 (60)		--
AM					--
AC	244PT	120 / 144	0,43-0,25 (50)	2600 / 3100	E, S
MC			0,52-0,30 (60)		E
ME					--
AM					--
AC	320P2T	152 / 182	0,51-0,30 (50)	2600 / 3100	E, S
MC			0,62-0,36 (60)		E
ME					--
AM					--
PA	260M2T	140 / 158	0,42-0,24 (50)	2700 / 3240	E
ME			0,50-0,29 (60)		--
AM					--
MC					E
PA	440M3T	278 / 334	0,75-0,43 (50)	2700 / 3240	E
PC			0,90-0,52 (60)		E
ME					--
AM					--
AM	530M4T	390 / 468	1,16-0,67 (50)	2700 / 3240	--



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PA			1,39-0,81 (60)		E
PC					E
ME					--

Options: K = Brake (24 Vdc or 230 Vac)  
R = Tacho Hall  
RR = Encoder 512 or 50 Imp. (5 or 24 Vdc)

Three-phase 4 poles 100/173 50/60Hz					
Series	Motor type	P (W) (50/60)	I (A) (50/60)	Rpm (50/60)	Optional Reductor
AM	66T	46 / 55	0,44-0,25 (50) 0,52-0,30 (60)	1200 / 1440	--
AC					E, S
ME					--
AM	110PT	60 / 72	0,57-0,33 (50) 0,69-0,40 (60)	1200 / 1440	--
AC					E, S
MC					E
ME					--
AM	145P2T	72 / 86	0,74-0,42 (50) 0,88-0,51 (60)	1200 / 1440	--
AC					E, S
MC					E
ME					--
AM	140M2T	100 / 120	0,76-0,44 (50) 0,91-0,53 (60)	1200 / 1400	--
PA					E
ME					--
MC	230P3T	150/180	1,33-0,77 (50) 1,60-0,92 (60)	1250 / 1500	E
AM	230M3T	150 / 180	1,33-0,77 (50) 1,60-0,92 (60)	1250 / 1500	--
MC					E
PA					E
PC					E
ME					--
AM	310M4T	190 / 228	1,79-1,04 (50) 2,15-1,24 (60)	1250 / 1500	--
PA					E
PC					E
ME					--

Options: K = Brake (24 Vdc or 230 Vac)  
R = Tacho Hall  
RR = Encoder 512 or 50 Imp. (5 or 24 Vdc)



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Three-phase 4 poles 277/480 50/60Hz					
Series	Motor type	P (W) (50/60)	I (A) (50/60)	Rpm (50/60)	Optional Reductor
AM	66T	46 / 55	0,16-0,09 (50) 0,19-0,11 (60)	1200 / 1440	--
AC					E, S
ME					--
AM	110PT	46 / 55	0,21-0,12 (50) 0,25-0,14 (60)	1200 / 1440	--
AC					E, S
MC					E
ME					--
AM	145P2T	72 / 86	0,27-0,15 (50) 0,32-0,18 (60)	1200 / 1440	--
AC					E, S
MC					E
ME					--
AM	140M2T	100 / 120	0,27-0,16 (50) 0,33-0,19 (60)	1200 / 1400	--
PA					E
ME					--
MC	230P3T	150/180	1,33-0,77 (50) 1,60-0,92 (60)	1250 / 1500	E
AM	230M3T	150 / 180	0,48-0,28 (50) 0,58-0,33 (60)	1250 / 1500	--
MC					E
PA					E
PC					E
ME					--
AM	310M4T	190 / 228	0,64-0,37 (50) 0,78-0,45 (60)	1250 / 1500	--
PA					E
PC					E
ME					--

Options: K = Brake (24 Vdc or 230 Vac)  
R = Tacho Hall  
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- Brushless motors, permanently connected, tenv, horizontal or vertical, foot and/or flange mounted, 230 V or less, 3-ph, ambient 40 °C, 50/60 Hz, Ins. Cl. N (200) or H (180) or F(155) ; 4 poles, external diameter 35 to 100 mm.

AC 4 poles brushless 230V						
Motor type	P (W)	I (A)@4000 Rpm Flangiato.	Rpm	series	CONNECTION	optional
BS 35/30	45	0,22	4000	E	RC, RP	K
BS 35/60	80	0,39	4000	E	RC, RP	K
BS 45/35	105	0,51	4000	E	RC, RP	K
BS 45/70	145	0,71	4000	E	RC, RP	K
BS 55/50	190	0,94	4000	E	RC, RP	K
BS 55/100	330	1,65	4000	E	RC, RP	K
BS 80/50	400	2	4000	E	RC, RP	K
BS 80/100	700	3,5	4000	E	RC, RP	K

Options: K = Brake (24 Vdc or 230 Vac)  
R = Tacho Hall  
RR = Encoder 512 or 50 Imp. (5 or 24 Vdc)

- DC brush motors, permanently connected, tenv, horizontal or vertical, foot and/or flange mounted, 12 –24V DC ambient 40 °C, Ins. Cl. H (180) or F(155) ; 2 poles, flange B5 or B14, external diameter 80 or 95mm.

DC 2 poles 12/24V					
series	Motor type	P (W)	I (A)	Rpm	Optional Reductor
MCC	12MP	60	5	2800	E
ACC					E, S
BC2000					
BCE2000					
ME					--
MCC	24MP	60	2,5	2800	E
ACC					E, S
BC2000					
BCE2000					
ME					--
MCC	12MP2	120	5	2800	E
ACC					E, S
PCC					E
ME					--
MCC					24MP2
ACC	E, S				
PCC	E				
ME	--				
PAC	12MP3N	115	9,6	2800	
MCC					E
PCC					E
ME					--
PAC					24MP3N
MCC	E				





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PCC					E
ME					--
PAC	12MP4N	230	19,2	2800	E
MCC					E
PCC					E
ME					--
PAC					E
MCC	24MP4N	230	9,6	2800	E
PCC					E
PCC					E
ME					--

Options: K = Brake (24 Vdc or 230 Vac)  
 R = Tacho Hall  
 RR = Encoder 512 or 50 Imp. (5 or 24 Vdc)

Notes:

1. Certified threaded conduit fittings to convert from PG/metric threads to standard conduit NPT treads shall be supplied with each motor.

**APPLICABLE REQUIREMENTS**

CSA Standard C22.2 No. 0.4-04 - Bonding of Electrical Equipment  
 CSA Standard C22.2 No.100-14 - Motors and Generators  
 US Standard UL 1004 -1 (2<sup>th</sup> Ed.) - Rotating Electrical Machines – General Requirements



## *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**

<b>Project</b>	<b>Date</b>	<b>Description</b>
1583555	August 06, 2004	August 06, 2004 – Original certification cCSAus on squirrel cage induction motors single or threephase, Series AC, MC, PA, BC2000, PC, AM, on Series BS, brushless motors And on Series BC2000 DC motors With or without following options reductor, K= Brake (24 Vdc or 230 Vac R = Tacho Hall RR = Encoder 512 or 50 Imp. (5 or 24 Vdc)
1883918	February 16, 2007	Addition of alternative motor brakes and components to all series.
70009380	April 13, 2015	Addition of alternative motor brakes to all series. To the requirements of CSA C22.2 no. 100-14 and UL 1004 -1 (2th Ed.).