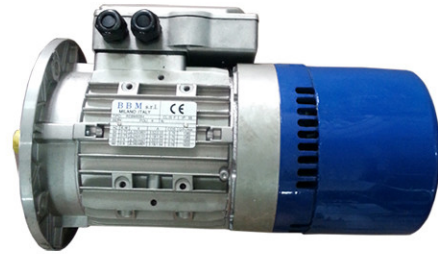
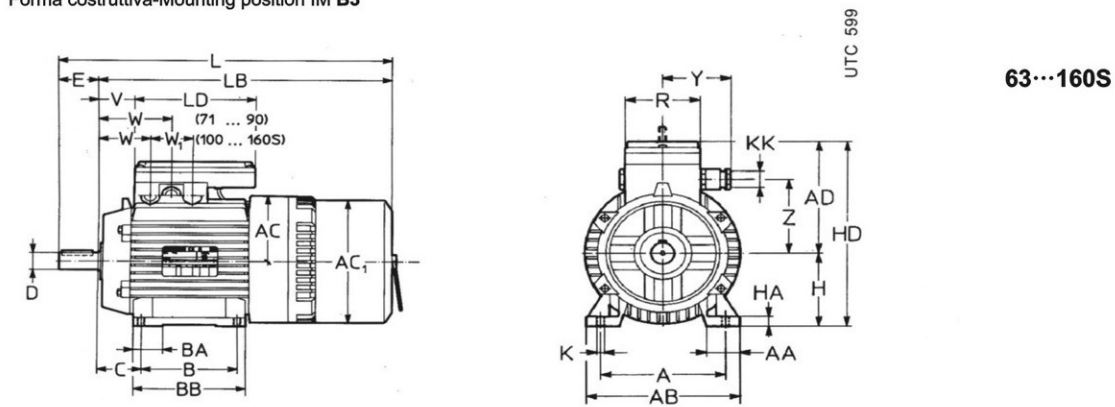


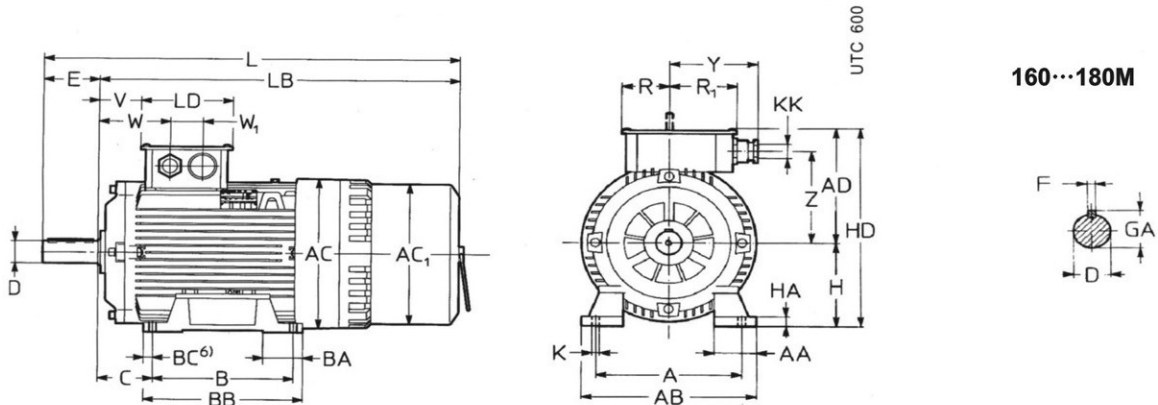
# BBM Brake Motors



Forma costruttiva-Mounting position IM B3



63...160S

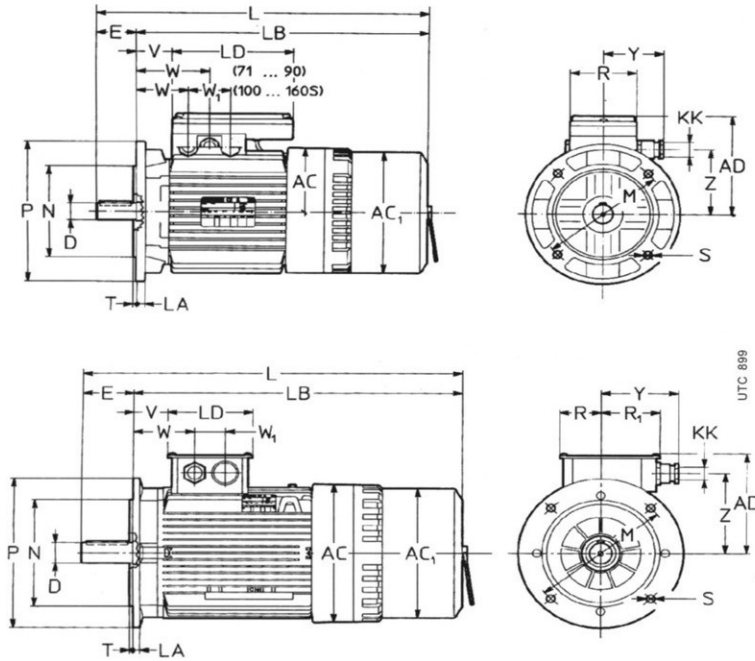


160...180M

Grand motore Motor size	AC <sub>Φ</sub>	AC <sub>1</sub>	AD	L	LB	LD	KK <sub>2</sub>	R	R <sub>1</sub>	V	W	W <sub>1</sub>	Y	Z	Estremità d'albero Shaft end				Piedi-Feet										
															D <sub>Φ</sub> <sup>1)</sup>	E	F <sub>h<sub>g</sub></sub>	GA	A	AB	B	C	BB	BAAA	K	HA	H <sup>4)</sup>	HD	
63	B3	132	125	104	293	270	142	77		31	78	-	66	54	11 j6 M4	23	4	12.5	100	120	80	40	100	21	27	7	9	63	167
71	B3	150	140	114	334	304				39	85		68	66	14 j6 M5	30	5	16	112	138	90	45	110	22	29		10	71	185
80	B3	170	159	127	380	340	154	102		37	87			77	19 j6 M6	40	6	21.5	125	153	100	50	125	26	30	9	10	80	207
90S	B3	180	179	142	405	355				42	93		71	91	24 j6 M8	50	8	27	140	174	100	56			38	11	90	232	
90L	B3				430	380																	150						
100	B3	212	199	152	485	425				44	75	40	84	120	28 j6 M10	60	8	31	160	196	140	63	183	40	37	12	100	252	
112M...MB	B3																							50					
112MC	B3				511	451																							
132S	B3	268	253	195	624	544	206	116		46	80	45	100	152	38 k6 M12	80	10	41	216	257	140	89	210	32	52	14	16	132	327
132M	B3				662	582																		33					
160S	B3				727	617				81	115				42 k6 M16	110	12	45	254	294	210	108	247	45	52		20	160	355
160M <sup>5)</sup>	B3	314	295	235	805	695	180	90		79	137	64	152	193										296	90	50			390
160L	B3							127																					325
180M <sup>5)</sup>	B3														48 k6 M16		14	51.5	279	321	241	121	298	65	55		22	180	410

## 4.3 Dimensioni motore BBM

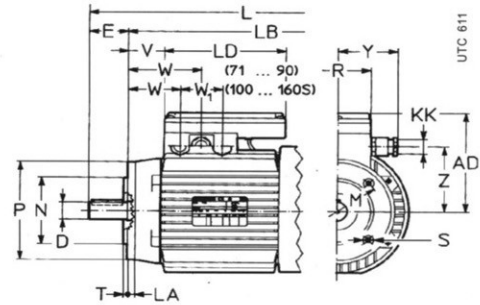
Forma costruttiva-Mounting position IM B5, IM B5R



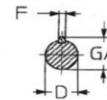
## 4.3 BBM motor dimensions

Forma costruttiva-Mounting position IM B14

71...132M



160...180M



Grand motore Motor size	AC	AC <sub>1</sub>	AD	L	LB	LD	KK <sub>2</sub>	R R <sub>1</sub>	V	W	W <sub>1</sub>	Y	Z	Estremità d'albero Shaft end			Flangia-Flange							
														D Φ <sup>1)</sup>	E	F h <sub>8</sub>	GA	M Φ	N Φ	P Φ	LA	S Φ	T	
63	B14	132	125	104	293	270	142	2xPg11	77	31	78	-	66	54	11 j6 M4	23	4	12.5	75	60 j6	90	8	M5	2.5
71	B5R <sup>9)</sup>	150	140	114	340	317	2xPg13.5	77	52	98	-	68	66	14 j6 M5	30	5	16	115	95 j6	140	10	9	3	
	B14				334	304												85	85	70 j6	105	8	M6	2.5
80	B5	170	159	127	388	358	154	102	55	105	-	77	77	19 j6 M8	40	6	21.5	130	110 j6	160	10	9	3.5	
	B14				380	340												87	87	80 j6	120	8	M6	3
90S	B5	190	179	142	395	355	2xPg16	77	42	93	-	71	91	24 j6 M8	50	8	27	165	130 j6	200	12	11	3.5	
	B14				405	380												93	93	95 j6	140	10	M8	3
90L	B5	190	179	142	420	380	2xPg16	77	42	93	-	71	91	19 j6 M6	40	6	21.5	165	130 j6	200	12	11	3.5	
	B14				430	380												93	93	95 j6	140	10	M8	3
100	B5	212	199	152	497	447	4xPg16	77	66	97	40	84	120	28 j6 M10	60	8	31	165	130 j6	200	12	11	3.5	
	B5R <sup>9)</sup>				485	425												75	109	45	100	152	130	110 j6
112M...MB	B5	212	199	152	485	425	4xPg16	116	44	75	-	84	120	28 j6 M10	60	8	31	215	180 j6	250	14	14	4	
	B14				511	451												75	109	45	100	152	130	110 j6
112MC	B5	212	199	152	511	451	4xPg16	116	44	75	-	84	120	28 j6 M10	60	8	31	215	180 j6	250	14	14	4	
	B14				511	451												75	109	45	100	152	130	110 j6
132S	B5R <sup>9)</sup>	268	253	195	633	573	206	116	75	109	45	100	152	38 k6 M12	80	10	41	165	130 j6	200	13	M10	3.5	
	B14				624	544												46	80	45	100	152	130	110 j6
132M	B5	268	253	195	624	544	206	116	46	80	-	100	152	38 k6 M12	80	10	41	265	230 j6	300	14	14	4	
	B5R <sup>9)</sup>				671	611												75	109	45	100	152	130	110 j6
160S	B5	314	295	235	775	695	180	90	79	137	64	152	193	28 j6 M10	60	8	31	215	180 j6	250	14	14	4	
	B5R <sup>9)</sup>				805	695												46	80	45	100	152	130	110 j6
160	B5	314	295	235	775	695	180	90	79	137	64	152	193	38 k6 M16	80	10	41	265	230 j6	300	14	14	4	
	B5R <sup>9)</sup>				805	695												79	137	64	152	193	38 k6 M16	80
180M	B5	314	295	235	805	695	180	127	79	137	64	152	193	42 k6 M16	110	12	45	300	250 h6	350	15	18	5	
	B5				805	695												79	137	64	152	193	42 k6 M16	110
180M	B5	314	295	235	805	695	180	127	79	137	64	152	193	42 k6 M16	110	14	51.5	300	250 h6	350	15	18	5	
	B5				805	695												79	137	64	152	193	42 k6 M16	110



## 4.2 Programma di fabbricazione motore BBM<sup>1)</sup>

## 4.2 BBM motor manufacturing Programme<sup>1)</sup>

4 Poli

4 Poles

P <sub>N</sub> 2) kw	Motore Motor 3)	n <sub>N</sub> min <sup>-1</sup>	M <sub>N</sub> N m	I <sub>N</sub> 1) A	cos Φ	η %	M <sub>s</sub> M <sub>N</sub>	M <sub>Max</sub> M <sub>N</sub>	I <sub>s</sub> I <sub>N</sub>	J <sub>o</sub> kg m <sup>2</sup>	Freno Brake	M <sub>f max</sub> 5) N m	Z <sub>o</sub> avv./h starts/h	Massa Mass kg	
0.12	63A	4	1400	0.82	0.54	0.51	63	2.9	2.9	2.7	0.0004	FA 02	2 ÷ 5	7100	6.1
0.18	63B	4	1370	1.25	0.74	0.61	68	2.8	2.8	2.8	0.0004	FA 02	2 ÷ 5	7500	6.2
0.25 *	63C	4	1335	1.79	1	0.64	59	2.6	2.6	2.7	0.0005	FA 02	2 ÷ 5	6300	6.3
0.25	71A	4	1410	1.7	0.82	0.63	70	2.6	2.6	3.5	0.0009	FA 03	3 ÷ 10	6300	8.5
0.37	71B	4	1405	2.51	1.2	0.61	73	2.5	2.7	3.6	0.001	FA 03	3 ÷ 10	6700	9.4
0.55	71C	4	1365	3.85	1.65	0.65	74	2.4	2.4	3.4	0.0012	FA 03	3 ÷ 10	5600	10
0.55 *	80A	4	1405	3.74	1.64	0.68	71	2.6	2.6	5.3	0.0024	FA 04	6 ÷ 20	5000	13
0.75	80B	4	1410	5.1	2.05	0.72	72	2.9	3	4.6	0.0028	FA 04	6 ÷ 20	4750	14
1.1 *	80C	4	1400	7.5	3	0.69	77	2.8	2.7	4.5	0.0034	FA 04	6 ÷ 20	3750	16
1.1	90SA	4	1410	7.5	2.85	0.74	75	2.4	2.7	5.1	0.0044	FA 14	6 ÷ 35	3550	19
1.5	90LA	4	1420	10.1	3.7	0.76	78	2.7	2.9	4.9	0.0051	FA 14	6 ÷ 35	3150	21
1.85 *	90LB	4	1410	12.5	4.75	0.71	79	2.7	2.7	5.5	0.0055	FA 05	10 ÷ 50	3350	22
2.2 *□	90LC	4	1415	14.8	5.6	0.72	78	2.8	2.8	5.6	0.0058	FA 05	10 ÷ 50	2650	23
2.2	100LA	4	1420	14.8	5.2	0.76	81	2.6	3	5	0.0067	FA 15	10 ÷ 50	2360	28
3	100LB	4	1425	20.1	6.7	0.77	82	2.9	3.1	5.8	0.0085	FA 15	10 ÷ 50	2650	32
4	112M	4	1425	26.8	8.9	0.78	84	3.1	3.3	6.1	0.0103	FA 06	15 ÷ 75	2360	37
5.5 *□	112MC	4	1425	36.8	12.2	0.76	86	3.1	3.4	6.1	0.0121	FA 06	15 ÷ 75	1700	43
5.5	132S	4	1440	36.5	11.7	0.8	85	3	3.4	7.5	0.024	FA 07	20 ÷ 100	1600	68
7.5	132M	4	1455	49.2	15.6	0.81	86	2.9	3.5	7.9	0.0331	FA 07	20 ÷ 100	1180	79
9.2	132MB	4	1455	60	18.9	0.82	86	3.6	3.7	8.8	0.0398	FA 08	30 ÷ 150	1060	85
11 *□	132MC	4	1455	72	23	0.79	86	3.4	3.6	8.3	0.0449	FA 08	30 ÷ 150	850	88
11 *□	160SC	4	1455	72	23	0.79	86	3.5	3.6	8.3	0.0449	FA 08	30 ÷ 150	850	97
11	160M	4	1450	72	23	0.81	85	2.1	2.1	5.4	0.069	FA 09	40 ÷ 200	950	124
15	160L	4	1465	98	31	0.81	88	2.7	2.7	6.7	0.081	FA 09	40 ÷ 200	950	135
18.5	180M	4	1465	121	37.5	0.81	88	2.7	2.7	7.3	0.101	FA G9	60 ÷ 300	800	145

6 Poli

6 Poles

P <sub>N</sub> 2) kw	Motore Motor 3)	n <sub>N</sub> min <sup>-1</sup>	M <sub>N</sub> N m	I <sub>N</sub> 1) A	cos Φ	η %	M <sub>s</sub> M <sub>N</sub>	M <sub>Max</sub> M <sub>N</sub>	I <sub>s</sub> I <sub>N</sub>	J <sub>o</sub> kg m <sup>2</sup>	Freno Brake	M <sub>f max</sub> 5) N m	Z <sub>o</sub> avv./h starts/h	Massa Mass kg	
0.09	63A	6	890	0.97	0.64	0.55	37	2.7	2.7	1.8	0.0006	FA 02	2 ÷ 5	8000	6.3
0.12	63B	6	890	1.29	0.74	0.56	42	2.7	2.7	1.8	0.0006	FA 02	2 ÷ 5	8000	6.3
0.15 *	63C	6	850	1.68	0.81	0.59	45	2.1	2.1	1.8	0.0007	FA 02	2 ÷ 5	8000	6.4
0.18	71A	6	920	1.87	0.66	0.64	62	2.4	2.4	3	0.0014	FA 03	3 ÷ 10	9000	9.8
0.25	71B	6	885	2.7	0.89	0.63	64	2.1	2.1	2.5	0.0015	FA 03	3 ÷ 10	8500	9.8
0.37 *	71C	6	875	4	1.34	0.67	60	2.1	2.1	2.5	0.0016	FA 03	3 ÷ 10	8000	10
0.37	80A	6	930	3.8	1.3	0.66	64	2.1	2.4	3.3	0.0028	FA 04	6 ÷ 20	6300	13
0.55	80B	6	920	5.7	1.8	0.69	65	2.1	2.3	3.2	0.0033	FA 04	6 ÷ 20	6700	14
0.75 *	80C	6	920	7.8	2.2	0.73	70	2.1	2.3	3.6	0.0042	FA 04	6 ÷ 20	5600	16
0.75	90S	6	935	7.7	2.2	0.7	71	2.3	2.5	3.8	0.0048	FA 14	6 ÷ 35	5300	19
1.1	90LA	6	915	11.5	3	0.74	70	2.3	2.3	3.9	0.0061	FA 05	10 ÷ 50	4500	22
1.5 *□	90LB	6	905	15.8	4.3	0.7	71	2.5	2.5	3.6	0.0065	FA 05	10 ÷ 50	4250	23
1.5	100LA	6	950	15.1	3.9	0.7	78	2.6	2.9	5	0.012	FA 15	10 ÷ 50	3000	32
1.85 *	100LB	6	950	18.6	4.6	0.75	78	2.5	2.6	5.1	0.0133	FA 15	10 ÷ 50	2800	35
2.2	112M	6	955	22	5.8	0.7	79	2.9	3	5.4	0.0147	FA 06	15 ÷ 75	2650	37
3 *□	112MC	6	940	30.6	7.6	0.7	80	2.9	2.9	5	0.0172	FA 06	15 ÷ 75	2500	43
3	132S	6	960	29.8	7.5	0.71	82	2.3	2.8	5.4	0.024	FA 07	20 ÷ 100	2120	66
4	132MA	6	965	39.6	10.7	0.66	82	2.9	3.3	5.8	0.0308	FA 07	20 ÷ 100	1500	74
5.5	132MB	6	950	55	12.9	0.75	82	2.3	2.9	6	0.0398	FA 08	30 ÷ 150	1250	85
7.5 *□	132MC	6	960	74.6	18.1	0.73	82	2.4	2.7	5	0.0557	FA 08	30 ÷ 150	950	88
7.5 □	160SC	6	960	74.6	18.1	0.73	82	2	2.7	5.8	0.0557	FA 08	30 ÷ 150	950	97
7.5	160M	6	965	74	15.7	0.82	84	2.1	2.3	5.1	0.093	FA 09	40 ÷ 200	1180	117
11	160L	6	970	108	22.5	0.81	86	2.5	2.5	6.1	0.116	FA 09	40 ÷ 200	950	131

1) Valori validi per alimentazione trifase 400 v 50Hz; per motori a doppia polarità i valori di targa possono scostarsi leggermente da quelli indicati in tabella. Per alimentazione speciale ved.cap.7.(1).

2) Potenze per servizio continuo S1; per S2...S10 è possibile incrementarle (ved.p.to.3.2).

3) Per la designazione completa per l'ordinazione ved.cap.2.

5) Normalmente il motore viene fornito tarato a un momento frenante uguale a circa 0.71M<sub>max</sub>; i freni 02, 03 e 04 hanno un M<sub>max</sub> potenziale di 8, 18 e 35 Nm rispettivamente.

6) Per IM B5 disponibile anche con dimensioni accoppiamento grand. 90: designazione grand. 90X, interpellarci.

★ Potenza o corrispondenza potenza-grandezza motore non normalizzate.

■ Classe di sovratemperatura F.

1) Values valid for three-phase supply 400 V 50Hz; for two-speed motors name plate data can slightly differ from those stated in the table. For non-standard supply see ch.7.(1).

2) Powers valid for continuous duty S1; increase possible for S2...S10 (see point 3.2)

3) For the complete description when ordering by designation see ch.2.

5) Motor braking torque is usually set at approx. 0.71M<sub>max</sub>; brakes 02,03 and 04 have apotential M<sub>max</sub> of 8, 18 and 35 Nm, respectively.

6) For IM B5, also available with pairing dimensions size 90; designation size 90X; consult us.

★ Power or motor power-to-size correspondence not according to standard.

■ Temperature rise class F.