

AC electric motors operating in non standard conditions (low frequency inverter duty, long overcharge periods, heavy duty cycles) could need additional cooling servo-fan. BASV series motors with forced cooling are provided with two additional cooling servo-fans fixed on the motor frame. This cooling system is an MGM patent.

SV series motors have the following features:

1. The standard self cooling fan inside the motor is kept additionally to the two cooling servo-fans.
2. The whole heating surface is increased as the fan fixing system is itself a heat dissipation element additionally to the existing fins on the frame.
3. Low noise level.
4. No additional motor length compared to the standard one.
5. Manual brake release with manual rotation.
6. Uniform winding cooling along the whole motor length.
7. The brake friction surface is cooled on the motor side.

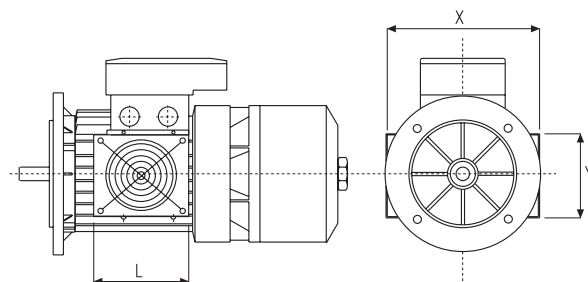
Where the forced cooling is used to limit the operating temperature in heavy start/stop duty application, it should be noted that the efficiency of the forced cooling increases with the number of pole of the motor. It's hard to estimate the amount of hot air removed by the forced cooling fans but it can be roughly said that it is the same as the air removed by the standard servo-fan of a 4 pole motor operating at 50 Hz.

It is advisable to use thermal protectors in heavy operating conditions. The table below shows technical details of fans supplied at 230V single-phase. The servo-fans can be supplied both at 50Hz or 60Hz. On request forced cooling fans can be provided with different voltage supply.

BMAV series motors with forced cooling are provided with single axial servo-fan replacing the standard motor self cooling fan.

Motor Type	Dim X	Dim Y	Dim L	Volt	Amp	m <sup>3</sup> /h	dB (A)
BASV 71	210	107	102	230	2x0.1	93	37
BASV 80	230	108	120	230	2x0.1	93	37
BASV 90	270	129	129	230	2x0.12	300	39
BASV 100	280	129	134	230	2x0.12	300	39
BASV 112	300	142	142	230	2x0.12	300	39
BASV 132	348	169	169	230	2x0.12	615	59
BASV 160	431	184	190	230	2x0.30	615	59
BASV 180	485	211	211	230	2x0.30	615	59
BASV 200	485	211	211	230	2x0.30	615	59
BASV 225	522	221	221	230	2x0.30	615	59

### BASV Series

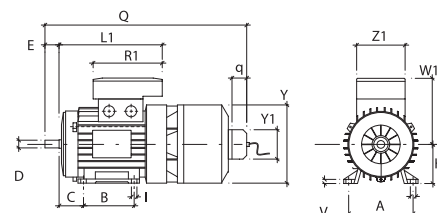


## BAE Series Dimensions

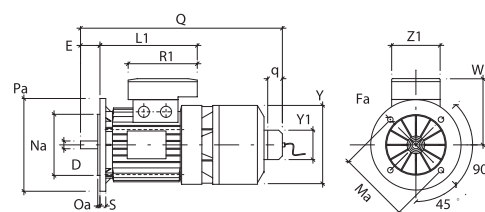
Size	71	80	90S	90L	100L	112M	132S	132M	160M	160L	180L	200L	225S	225M
A	112	125	140	140	160	190	216	216	254	254	279	318	356	356
B	90	100	100	125	140	140	140	178	210	254	279	305	286	311
C	45	50	56	56	63	70	89	89	108	108	121	133	149	149
D*	14	19	24	24	28	28	38	38	42	42	48	55	60	60
d	M5	M6	M8	M8	M10	M10	M12	M12	M16	M16	M16	M16	M16	M16
E*	30	40	50	50	60	60	80	80	110	110	110	110	140	140
Fa	9.5	11.5	11.5	11.5	14.5	14.5	14.5	14.5	18.5	18.5	18.5	18.5	18.5	18.5
Fb	M6	M6	M8	M8	M8	M8	M10	M10						
f	5	6	8	8	8	8	10	10	12	12	14	16	18	18
g	11	15,5	20	20	24	24	33	33	37	37	42,5	49	53	53
H	71	80	90	90	100	112	132	132	160	160	180	200	225	225
h	5	6	7	7	7	7	8	8	8	8	9	10	11	11
I	7	10	10	10	12	12	12	12	14.5	14.5	15	18.5	18	18
K	10,5	14	14	14	16	16	22	22	24	24	24	30	18	18
L1	184	194	207	232	254	262	294	339	373	395	420	446	440	440
Ma	130	165	165	165	215	215	265	265	300	300	300	350	400	400
Mb	85	100	115	115	130	130	165	165						
Na	110	130	130	130	180	180	230	230	250	250	250	300	350	350
Nb	70	80	95	95	110	110	130	130						
Oa	3,5	3,5	3,5	3,5	4	4	4	4	5	5	5	5	5	5
Ob	2,5	3	3	3	3,5	3,5	3,5	3,5						
Pa	160	200	200	200	250	250	300	300	350	350	350	400	450	450
Pb	105	120	140	140	160	160	200	200						
Q	415	451	483	507	558	576	677	715	803	847	931	956	1077	1077
q	76	76	76	76	76	76	76	76	76	76	76	76	89	89
R1	135	135	170	170	170	170	199	199	268	268	268	268	327	327
S	10	12	12	12	14	14	15	15	15	15	15	15	20	20
V	8	9,5	10,5	10,5	12,5	13,5	16	16	21	21	24	24	32	32
W									165	165	188	188	224	224
W1	121	130	148	148	162	176	210	210	246	246	266	266	341	341
Y	145	160	180	180	196	218	265	265	324	324	357	357	430	430
Y1	121	121	121	121	121	121	121	121	121	121	121	121	158	158
Z1	86	86	112	112	112	112	151	151	167	167	167	167	202	202

\* 225S-225M 2 pole D=55, E=110

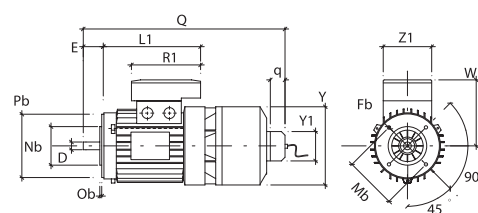
### B3 (Foot Mounting)



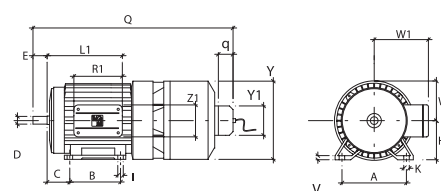
### B5 (Flange mounting)



### B14 (Face Mounting)



### Size 160÷225 B3 (Foot Mounting)



### Shaft End

