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.

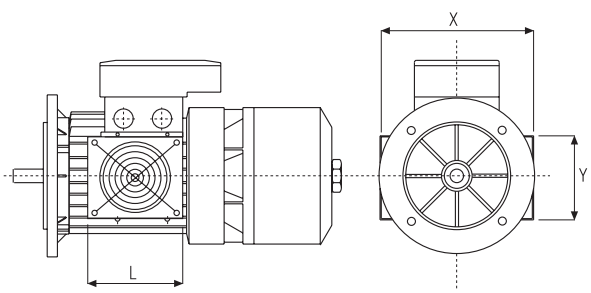
SV series motors have the following features:

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^3/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

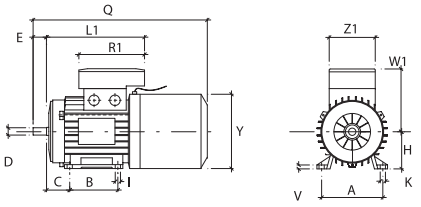
BASV Series



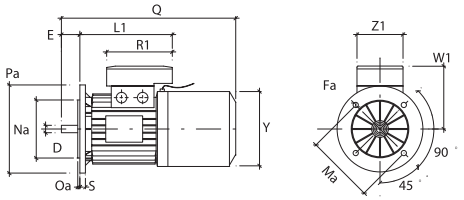
BMEAV Series Dimensions

Size	63	71	80	90S	90L	100L	112M	132S	132M	160M	160L
A	100	112	125	140	140	160	190	216	216	254	254
B	80	90	100	100	125	140	140	140	178	210	254
C	40	45	50	56	56	63	70	89	89	108	108
D	11	14	19	24	24	28	28	38	38	42	42
d	M4	M5	M6	M8	M8	M10	M10	M12	M12	M16	M16
E	23	30	40	50	50	60	60	80	80	110	110
Fa	9.5	9.5	11.5	11.5	11.5	14.5	14.5	14.5	14.5	18.5	18.5
Fb	M5	M6	M6	M8	M8	M8	M8	M10	M10		
f	4	5	6	8	8	8	8	10	10	12	12
g	8.5	11	15.5	20	20	24	24	33	33	37	37
H	63	71	80	90	90	100	112	132	132	160	160
h	4	5	6	7	7	7	7	8	8	8	8
I	7	7	10	10	10	12	12	12	12	14,5	14,5
K	10.5	10.5	14	14	14	16	16	22	22	24	24
L1	166	184	194	207	232	254	262	294	339	373	395
Ma	115	130	165	165	165	215	215	265	265	300	300
Mb	75	85	100	115	115	130	130	165	165		
Na	95	110	130	130	130	180	180	230	230	250	250
Nb	60	70	80	95	95	110	110	130	130		
Oa	3	3.5	3.5	3.5	3.5	4	4	4	4	5	5
Ob	2.5	2.5	3	3	3	3.5	3.5	3.5	3.5		
Pa	140	160	200	200	200	250	250	300	300	350	350
Pb	90	105	120	140	140	160	160	200	200		
Q	310	345	384	410	435	485	520	625	664	690	734
R1	135	135	135	170	170	170	170	199	199	268	268
S	10	10	12	12	12	14	14	15	15	15	15
V	7	8	9.5	10.5	10.5	12.5	13.5	16	16	21	21
W										155	155
W1	111	121	130	148	148	162	176	210	210	246	246
Y	121	136	153	178	178	198	219.5	255	255	310	310
Z1	86	86	86	112	112	112	112	151	151	167	167

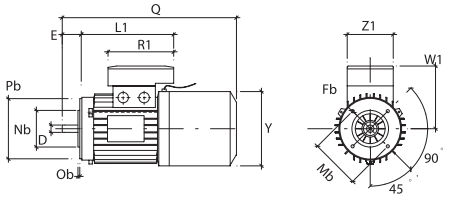
B3 (Foot Mounting)



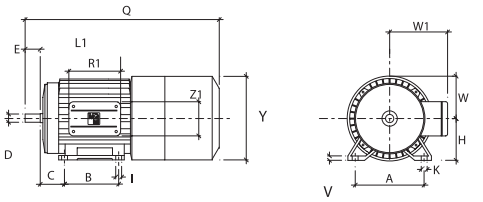
B5 (Flange Mounting)



B14 (Face Mounting)



Size 160 B3 (Foot Mounting)



Shaft End