

FLANGED VIBRATION MOTORS



Flanged vibration motors that have maximum 2080 kgf (20,4 kN) centrifugal force are suitable for vibration machine manufacturer and other sectors in industry.

Miksan Motor's flanged vibration motors can operate in all conditions and environments with high performance.

TECHNICAL SPECIFICATIONS

Power Supply

Power supply of vibration motors is 230 Volt singlephase or 230 Δ /400 Y Volt threephase and 50-60 Hz as a standart. Please contact us for the special voltage and frequency rate.

Electric Motor

Electric motor of flanged vibration motors has higher starting torque than standart asynchronous electric motor. Standart Miksan Motor singlephase flanged vibration motors have permanent split capacitor. Over heating problem of the vibration motor due to no vantilation system is taking into consideration at designing.

Polarity

As a standart vibration motors are manufactured in 2 or 4 pole.

Motor Shaft

Motor shaft of vibration motors is produced from C45 structural steel.

Rotor

Rotor is produced by injecting high alloyed alluminium to the channel of the packed siliceous sheet metal.

Bearings

The series with lower centrifugal force (from VYF to VCF series) are equipped with deep groove ball bearing (2Z) with C3 internal clearance. The series with higher centrifugal force (VDF and VEF series) are equipped with cylindrical roller bearings (NJ Series) with C4 internal clearance. All of the bearings, that we are using, are suitable to operate at heavy duty conditions.

**Eccentric Weights**

The weights can adjust easily by rotating or subtracting according to the type of the vibration motors.

Casing

Casing of vibration motor is high alloyed aluminium from VYF series to VEF series. For the casing of vibration motors that have higher centrifugal force (VEF series) is nodular cast iron (GGG 50).

Eccentric Weights Cover

The eccentric weights cover is sheet metal up to VK series. The purpose of the eccentric weight covers are protecting the eccentric weights from the external factors and providing the safety.

Insulation Class

Insulation class of our standart range vibrtion motor is F class (155 °C).

Degree of Protection

Degree of protection is IP 66.

Lubrication

Except the vibration motors that used self-lubricated bearings (deep groove ball bearings - 2Z), bearings of the vibration motors (NJ series) are lubricated in our factory. Apart from this, bearings have to be lubricated with the aid of grease nipple that is on the vibration motor case during the maintance. Required grease amount is written in the " Vibration Motor User's Manual.

Painting

Vibration motors are painted with RAL 1003 paint by using electrostatic painting method.

2 POLE CE

50 Hz-3000 rpm ~ 60 Hz-3600 rpm

*Please contact us for 60 Hz values.

MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS			
RPM	TYPE	Centrifugal Force		Static Moment	Weight	Nominal Voltage	Max. Current	Capacitor	Max. Input Power
50 Hz		KG	N	kgmm	KG	V	A	µF	Kw
3000	VYF 2 - 60	59	579	5,86	2,8	400	0,18	-	0,04
	VAF 2 - 200	200	1962	20	6,9	230/400	0,60/0,35	-	0,17
	VBF 2 - 350	340	3335	34	10,0	230/400	0,87/0,50	-	0,22
	VCF 2 - 400	393	3860	39	13,1	230/400	1,55/0,90	-	0,44
	VCF 2 - 600	590	5790	59	13,7	230/400	1,55/0,90	-	0,44
	VDF 2 - 750	762	7475	76	21,6	230/400	1,90/1,10	-	0,69
	VDF 2 - 1100	1048	10281	104	22,6	230/400	2,34/1,35	-	0,75
	VEF 2 - 1500	1480	14519	147	51,3	230/400	5,20/3,00	-	1,3
	VEF 2 - 1800	1770	17364	176	52,0	230/400	5,20/3,00	-	1,3

singlephase	VYF 2 - 60 M	59	579	5,86	2,9	230	0,24	4	0,05
	VAF 2 - 200 M	200	1962	20	6,9	230	1,0	6	0,15
	VBF 2 - 350 M	340	3335	34	9,2	230	1,5	8	0,16
	VCF 2 - 400 M	393	3860	39	13,2	230	2,0	8	0,44
	VCF 2 - 600 M	590	5790	59	13,8	230	2,0	8	0,44

Working Moment = 2 x Static Moment

DIMENSIONS (mm)																
threephase	TYPE	A	B	C	D	H	E	F	G	I	L	M	N	O-Ring	Cable Entry	Figure
	VYF 2-60	186	130	72	109	8,5 x 4	104	12	8	47	77	35	-	OR 3350	M16 x 1,5	B
	VAF 2-200	215	211	102	188	12 x 4	140	15	10	51	113	23	-	OR 4650	M20 x 1,5	B
	VBF 2-350	279	215	120	188	12 x 4	176	15	11	66	130	37	-	OR 4650	M20 x 1,5	B
	VCF 2-400	240	235	144	205	12 x 6	122	10	13	46	151	70	160	OR 4700	M20 x 1,5	A
	VCF 2-600	240	235	144	205	12 x 6	122	15	13	46	151	70	160	OR 4700	M20 x 1,5	A
	VDF 2-750	350	280	144	230	15 x 6	189	20	15	89	188	71	185	OR 4800	M20 x 1,5	B
					254	14 x 4									M20 x 1,5	B
	VDF 2-1100	350	280	144	230	15 x 6	189	27,5	15	89	188	71	185	OR 4800	M20 x 1,5	B
					254	14 x 4									M20 x 1,5	B
	VEF 2-1500	421	350	182	290	17 x 6	258	20	22	84	212	79	208	-	M20 x 1,5	B
VEF 2-1800	421	350	182	290	17 x 6	258	24	22	84	212	79	208	-	M20 x 1,5	B	

VYF 2-60 M	186	130	72	109	8,5 x 4	104	12	8	47	77	35	-	OR 3350	M16 x 1,5	B
VAF 2-200 M	215	211	102	188	12 x 4	140	15	10	51	113	23	-	OR 4650	M20 x 1,5	B
VBF 2-350 M	279	215	120	188	12 x 4	176	15	11	66	130	37	-	OR 4650	M20 x 1,5	B
VCF 2-400 M	240	235	144	205	12 x 6	122	10	13	46	151	70	160	OR 4700	M20 x 1,5	A
VCF 2-600 M	240	235	144	205	12 x 6	122	15	13	46	151	70	160	OR 4700	M20 x 1,5	A

*We reserve the right to modify the specifications and dimensions without notice.

4 POLE CE

50 Hz-1500 rpm ~ 60 Hz-1800 rpm

*Please contact us for 60 Hz values.

	MECHANICAL SPECIFICATIONS						ELECTRICAL SPECIFICATIONS			
	RPM	TYPE	Centrifugal Force		Static Moment	Weight	Nominal Voltage	Max. Current	Capacitor	Max. Input Power
	50 Hz		KG	N	kgmm	KG	V	A	μF	Kw
threephase	1500	VAF 4 - 80	80	785	32	7,8	230/400	0,52/0,30	-	0,15
		VBF 4 - 200	210	2060	84	11,9	230/400	0,72/0,42	-	0,17
		VCF 4 - 400	400	3924	159	17,3	230/400	1,30/0,75	-	0,35
		VCF 4 - 600	570	5592	227	19,3	230/400	1,30/0,75	-	0,35
		VDF 4 - 750	750	7353	290	30,3	230/400	1,73/1,00	-	0,6
		VDF 4 - 1100	1100	10791	437	33,3	230/400	2,16/1,25	-	0,7
		VEF 4 - 1800	1740	17069	692	64,5	230/400	4,76/2,75	-	1,25
		VEF 4 - 2100	2080	20405	827	67,5	230/400	5,71/3,30	-	1,4
single phase	1500	VAF 4 - 80 M	80	785	32	7,8	230	0,65	4	0,15
		VBF 4 -200 M	210	2060	84	11,0	230	2,00	6	0,42

Working Moment = 2 x Static Moment

	DIMENSIONS (mm)															
threephase	TYPE	A	B	C	D	H	E	F	G	I	L	M	N	O-Ring	Cable Entry	Figure
	VAF 4-80	215	211	102	188	12 x 4	140	24	10	51	113	23	-	OR 4650	M20 x 1,5	B
	VBF 4-200	279	215	120	188	12 x 4	176	36	11	66	130	37	-	OR 4650	M20 x 1,5	B
	VCF 4-400	298	235	142	205	12 x 6	122	44	13	77	151	100	160	OR 4700	M20 x 1,5	A
	VCF 4-600	324	235	142	205	12 x 6	122	60	13	90	151	113	160	OR 4700	M20 x 1,5	A
	VDF 4-750	360	280	176	230	15 x 6	189	44	15	89	188	82	185	OR 4800	M20 x 1,5	B
					254	14 x 4									M20 x 1,5	B
	VDF 4-1100	398	280	176	230	15 x 6	189	64	15	113	188	95	185	OR 4800	M20 x 1,5	B
					254	14 x 4									M20 x 1,5	B
	VEF 4-1800	506	350	200	290	17 x 6	258	70	22	130	212	117	208	-	M20 x 1,5	B
VEF 4-2100	506	350	200	290	17 x 6	258	80	22	130	212	117	208	-	M20 x 1,5	B	
single phase	VAF 4-80 M	215	211	102	188	12 x 4	140	24	10	51	113	23	-	OR 4650	M20 x 1,5	B
	VBF 4-200 M	279	215	120	188	12 x 4	176	36	11	66	130	37	-	OR 4650	M20 x 1,5	B

Figure A

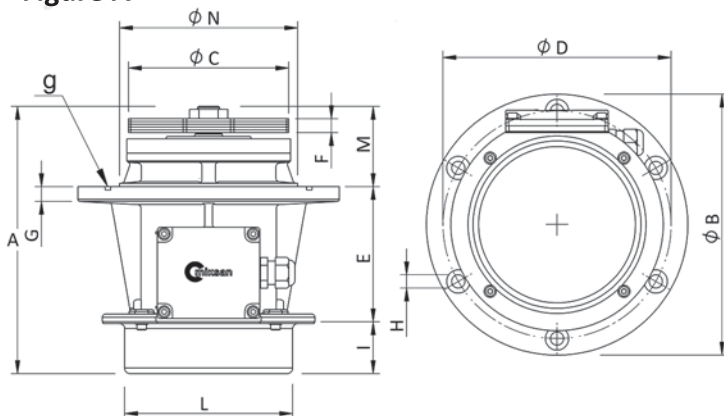
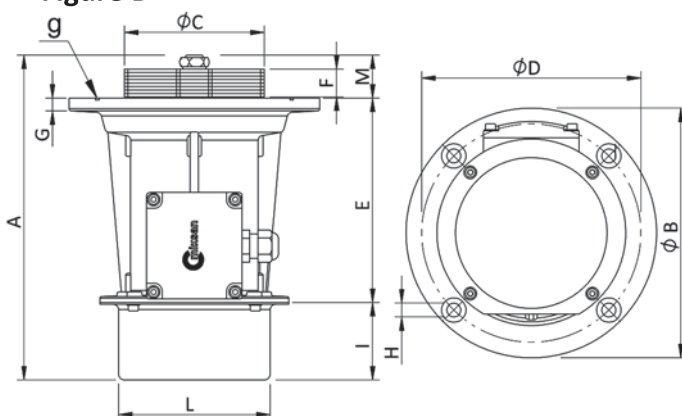


Figure B



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