AllianceMotori

Electric Vibrator Motor

AVM SERIES

Introductions

A. EndShield Cover
B. Adjustable Weight
C. Scale Disc
D. Fixed Weight
E. O Shaped Ring
F. EndShield
G. Stator
H. Frame
I. Connection Board
J. Terminal Box Cover
K. Bearing
L. Rotor
N. Bearing Cover

AF-T	Concrete Vibrator Series - General Application in Batching Plants and Other Concrete Plants.	Aluminium Frame: 00AL - 03AL; Cast Iron Frame: 30 -120	Mounting Dimension : Alliance Standard; May Not interchangeable with Other Major Brand
AVI	Heavy Duty Industrial Vibrator Series - Heavy Duty Application in Mines, Power Plants.	Cast Iron Frame: 70-110	Mounting Dimension : International Standard; Interchangeable with Major Brand
AVM	Premium Industrial Vibrator Series - General Industry Vibrator Such as Conveyor, SILO, Feeder Polishing Machine.	Aluminium Frame: 30 - 75; Cast Iron Frame: 10-20	Mounting Dimension : International Standard; Interchangeable with Other Major Brand

Technical Features

Power supply
Three-phase voltage from 24V to 690V, 50Hz or 60Hz or single phase 100-130V, 60Hz and 200-240V, 50Hz (single-phase types are supplied without capacitor); suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile.

Polarity
2, 4, 6 and 8 standard poles, 10 and 12 poles on request.

Reference Regulations
EN 60034-1, IEC/EN 61241-0, IEC/EN 61241-1.

Functioning
Continual service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information, contact our technical assistance office.

Centrifugal force
Range extended up to 30500 Kgf. (300 kN), with centrifugal force adjustable from 0 to 100%

Mechanical Protection
IP55 / IP65

Protection against mechanical impacts
IK 08 according to IEC 68, EN 50102.

Insulation class
Class F (155°C), class H (180°C) on request.

Ambient Temperature
From -20°C to +40°C. Versions for higher or lower temperatures are available on request.

Fixing of the vibrator
In all positions and therefore without restriction.

Lubrication
All vibrators are lubricated in the factory and do not require further lubrication if used in normal operating conditions

Terminal Box
Large fixed electrical connections. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

Electric Motor
Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to requirements of vibrating machines.

Bearing Flange
Constructed in cast iron (spheroidal or grey) or in aluminium with steel bearing seat. The geometry of the flange transmits the load to the casing uniformly.

Motor Shaft
In treated steel alloy (Isothermic hardening) resistant to stress.

Eccentric Weights
Allow continual adjustment of the centrifugal force. This adjustment is realized by a graduated scale, whichexpresses the centrifugal force as a percentage of the maximum centrifugal force.

Weight Covers
In aluminium alloy. On several sizes split covers are available, please refer to section MVSI-TS on page 16. On request stainless steel AISI 304 weight covers can be supplied.

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AVM SERIES
Premium Vibrator Motor

* International Standard Mounting Dimension

Technical Parameters

2 Poles - Single Phase (220 V / 50 Hz)

Model	Vibrating Force (Kn)	Input Power (Kw)	Max. Current (A)	Weight (Kg)	Capacitor	Pedestal Model
AVM-20S	0,2	0,02	0,1	2,3	1,5µF	5
AVM-60S	0,7	0,08	0,43	5,6	3µF	10
AVM-100S	0,95	0,1	0,58	6	3µF	10
AVM-200S	2	0,17	0,71	6,7	6µF	10
AVM-400S	4	0,31	1,68	10,5	12µF	20

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Technical Parameters - AVM Vibrator

2 Poles - Three Phase (380V / 50Hz)

Model	Vibrating Force (Kn)	Input Power (Kw)	Max. Current (A)	Weight (Kg)	Size
AVM-60/3	0,7	0,08	0,17	5,5	10
AVM-100/3	1	0,1	0,21	5,8	10
AVM-200/3	2	0,17	0,35	7,0	10
AVM-400/3	4	0,3	0,58	10,5	20
AVM-500/3	5	0,45	1,1	15,5	30
AVM-700/3	7	0,5	1,21	16,7	30
AVM-800/3	8	0,55	1,35	20,5	30
AVM-1200/3	10,9	0,75	1,65	21,6	30
AVM-1600/3	16	1,27	2,94	51,6	40
AVM-2000/3	20	1,6	4	52,8	40
AVM-2300/3	23	2	4,25	53,6	40
AVM-3200/3	32	2,2	5,5	97	50
AVM-4000/3	40	3,1	5,8	107	50
AVM-5000/3	50	3,5	7,4	112	50

4 Poles - Three Phase (380V / 50Hz)

Model	Vibrating Force (Kn)	Input Power (Kw)	Max. Current (A)	Weight (Kg)	Size
AVM-40/4	0,4	0,04	0,1	5,8	10
AVM-80/4	0,8	0,09	0,21	6,2	10
AVM-200/4	2	0,18	0,43	11	20
AVM-400/4	4,1	0,3	0,8	17	30
AVM-500/4	5,2	0,37	0,9	21	30
AVM-700/4	7,1	0,55	1,3	27	30
AVM-1100/4	11	0,6	1,45	36	30
AVM-1400/4	14	0,85	1,9	59,5	40
AVM-1700/4	17	1,1	2	62	40
AVM-2400/4	24	1,6	3,2	68	40
AVM-3000/4	30,5	2,2	3,8	102	50
AVM-3800/4	38,3	2,5	4,1	130	50
AVM-4300/4	43	3	4,5	134	50
AVM-5500/4	55	3,5	6,5	186	60

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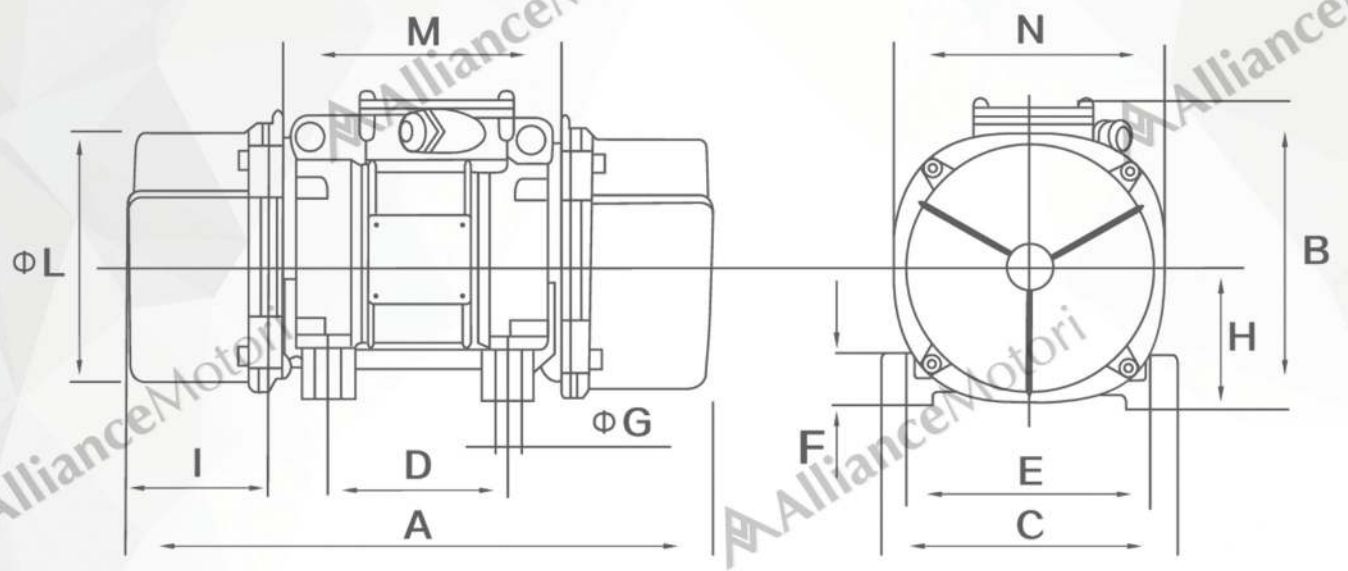
Dimension of AVM Series Vibration Motor



Pedestal Model	A	B	C	D	E	F	ΦG	H	I	ΦL	M	N
5	152	85	111	28-40	94	9	7,5	33	34	60	84	50
10	211	153	125	62-74	106	30	9	61	50	110	123	121
20	273	175	154	91	140	16	13	79	55	131	163	142
30	362	210	208	120	170	22	17	94	78	170	20	180
40	416	247	229	140	190	30	17	120	96	222	220	247
50	588	318	302	155	255	35	23,5	147	140	264	273	295
60	603	360	332	180	280	37	26	168	168	310	304	345

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Other Products

DC Vibrator Motor

ZF-TDC90

ZF-TDC200

ZF-TDC1500

ZN Series Handhold Vibrator Motor

ZDN Straight High Frequency Vibrator Shaft

Pneumatic Turbine Vibrator

Concrete Vibrator Shaft

Attached Flat Vibrator Motor

ZDN Electronic Inverter Low Noise Concrete Vibrator Shaft

ZN Series - Insertion Vibrator Motor

ZN50F/70F

ZN50E/70E

ZN50A/70A

ZN50F/70F

ZN5G/70G

ZN50D/70D

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