

ntroductio



Connection Board

- A. EndShield Cover
- B. Adjustable Weight
- C. Scale Disc
- D. Fixed Weight

F. EndShield

- Stator E. O Shaped Ring H. Frame
- J. Terminal Box Cover
 - K. Bearing

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

Weight Covers

Alliancel 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.

AllianceNot

MAllianceMot

AVI/F SERIES Vibratory Motor



Type Identifiers

AVI F₁ 25 AVI-F Series Three-phase asynchronous Number of Poles (4 Poles) MianceMoto Vibratory force (25 kN) AllianceMot ("1" Middle flange, "no number" Upper Flange) ("2" Double Flanges)

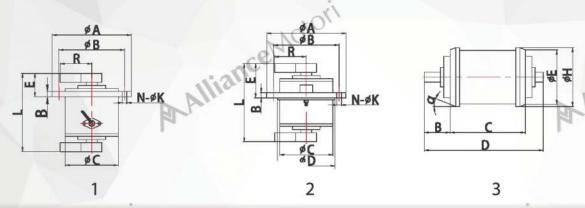
Specification

- 1. This motor is of a reasonable design using superior process materials in order to product a highly efficient motor with a low operating temperature with a long service operating life.
- 2. The weight density and design this vibratory motor has a good vibratory output force (kN) with a high starting torque and low electrical power consumption.
- 3. Low operating noise levels (dB) during running and fluctuating loads.
- 4. By adjusting piece of the counterweights (flyweight) or the angle of the counterweights (flyweight) various levels of vibratory force percentage can be achieved.
- 5. By adjusting the angle of degrees of the upper and lower counterweights (flyweight), circular or elliptic vibration will be produced to meet many kinds of working requirements such as vibration screen, vibration cleaning machine, vibration polisher, vibration Crusher, Vibration mixer.

Workable Condition

Ambient Temperature	Altitude (m)	Voltage (V)	Frequency (Hz)	Insulation Class		
-20°C ~ 40°C	≤ 1000	380	50	F		
Degrees of Protection Provided	Duty Type	Cooling	Mounting Arrangement			
IP54	S1	C410	Vertical Installation			

Dimension of AVI/F Series Vibration Motor



No	Model	Force	Speed	Input Power	Max. Current	Dimension (mm)									Figure	ФD
			(r/min)	(kW)	(A)	ФА	ФВ	ФС	L	E	В	R	N-OK	Kg	rigure	Ψυ
2 Po	les 💢	0										C	0.			
1	AVI/F-5-2	5		0.40	0.90	245	210	150	278	67	18	72	6-12	24	1	
2	AVI/F-8-2	8	2800	0.55	1.20	270	240	164	273	67	20	82	6-14	32	1	
3	AVI/F1-20-2	20		1.50	3.00	370	320	210	425	203	25	94	6-22	80	2	
4 Po	les								- 1							
1	AVI/F-1-4	1		0.12	0.40	190	165	126	220	54	16	68	4-12	15	1	
2	AVI/F-3-4	3		0.12	0.40	230	200	126	268	78	16	78	4-12	15	1	
3	AVI/F-5-4	5		0.25	0.70	245	210	150	270	76	18	90	6-12	25	1	
4	AVI/F-8-4	8		0.37	0.86	270	240	164	302	81	20	103	6-14	36	1	
5	AVI/F1-8-4	8		0.37	0.86	268	230	160	326	145	24	105	4-18	35	2	160
6	AVI/F-10-4	10		0.55	1.25	310	265	190	343	104	22	130	8-18	44	1	
7	AVI/F-16-4	16		0.75	1.68	310	265	190	365	112	24	135	8-18	51	1	
8	AVI/F ₁ -16-4	16		0.75	1.68	268	230	180	350	134	24	115	4-18	40	2	180
9	AVI/F ₁ -20-4	20		1.10	2.38	370	320	210	456	218	25	141	6-22	80	2	285
10	AVI/F ₁ -25-4	25	1440	1.50	3.20	370	320	210	470	225	25	141	6-22	88	2	285
11	AVI/F1-32-4	32		1.50	3.20	370	320	210	495	238	25	151	6-22	87	2	285
12	AVI/F1-35-4	35		1.80	3.78	370	320	210	556	258	25	141	6-22	96	2	285
13	AVI/F ₁ -50-4	50		2.20	4.70	500	440	330	533	262	30	175	8-26	170	2	368
14	AVI/F ₁ -50-4A	50		2.50	5.40	500	440	330	504	233	30	200	8-26	158	2	368
15	AVI/F ₁ -65-4	65		5.00	10.40	500	440	330	659	356	32	175	8-26	225	2	368
16	AVI/F ₁ -75-4	75		3.70	7.64	610	525	380	663	320	40	170	6-38	278	2	420
17	AVI/F1-75-4A	75	13	5.50	11.00	610	525	380	631	322	40	215	6-38	362	2	420
18	AVI/F ₁ -100-4	100	01,	7.50	16.30	610	525	380	711	347	40	180	6-38	366	2	420
19	AVI/F ₁ -125-4	125		10.00	19.60	610	495	420	737	390	50	245	8-38	420	2	420
	Hianc	SIL								-1	113	UC	213			

No Model		Vibrating Force	Speed	Input Power	Max. Current		Di	mens	ion (Kg	Figure			
And and a		(kN)	11.07/11/11/11	(kW)	(A)	ΦЕ	ΦН	В	C	D	Q	, Ng	riguic	
4 Pole	es													
1	AVI/F ₂ -50-4	50	1440	2.20	3.20	215	230	80	330	490	20°	73	3	
2	AVI/F2-65-4	65		4.00	8.40	298	318	115	345	547	25°	131	3	
3	AVI/F2-75-4	75		5.50	11.20	298	318	119.5	420	631	25°	160	3	
4	AVI/F ₂ -100-4	100		7.50	16.30	351	372	144	442	710	25°	222	3	
5	AVI/F ₂ -125-4	125	PAlli	11.00	21.30	351	372	138	525	801	25°	263	3	- N

Other Products

DC Vibrator Motor



MAIlianes

ZN Series - Insertion Vibrator Motor



