

AllianceMotori

Electric Vibrator Motor



AZU SERIES

Introductions



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

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, which expresses the centrifugal force as a percentage of the maximum centrifugal force.

Weight Covers

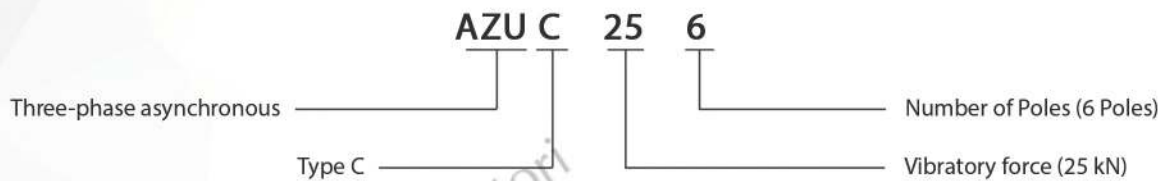
In aluminium alloy. On several sizes split covers are available, please refer to section MVSI-TS on page 16. On request stainless steel AISI 304 weight covers can be supplied.

AZU SERIES

Vibratory Motor (Type C)



Type Identifiers



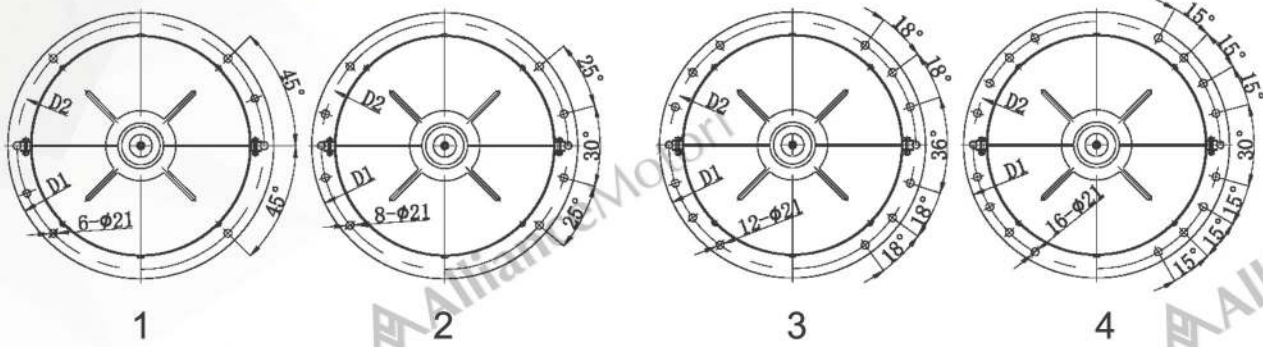
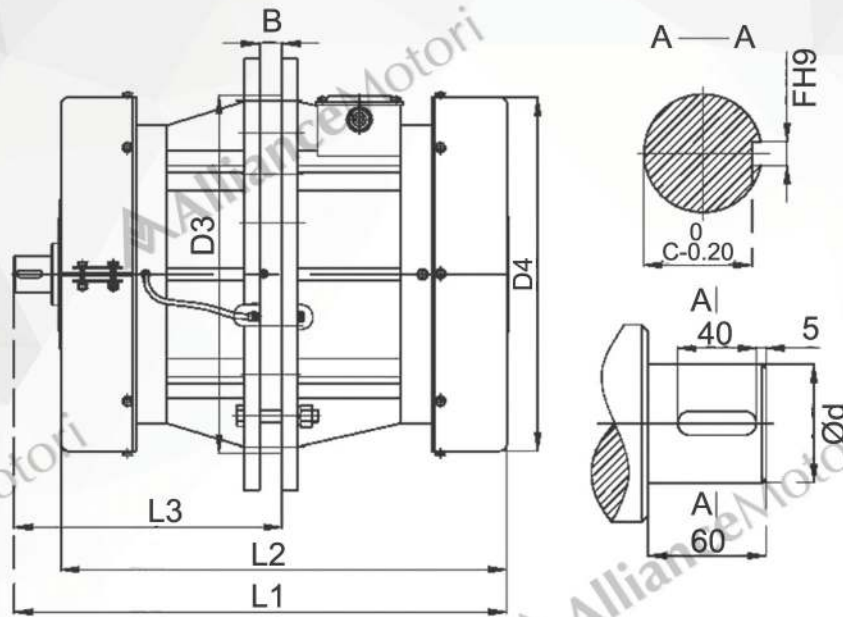
Specification

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. Simplify the intermediate transmission structure, easy installation and maintenance, lower power consumption, save energy;
3. 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.
4. Low Operating noise levels (dB) during running and fluctuating loads.
5. By adjusting the angle of the counterweights (flyweight) various levels of vibratory force percentage can be achieved.
6. The various levels of vibratory modes of vibration are able to be achieved for the work required.

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	
IP55	S1	C410	Horizontal Installation	

Dimension of AZU Series Vibration Motor



No	Model	Vibrating Force (kN)	Speed (r/min)	Input Power (kW)	Max. Current (A)	Dimension & Contour Size											Kg	Figure	
						D1	D2	D3	D4	L1	L2	L3	B	C	F	Ød			
4 Poles																			
1	AZU-C-50-4	50	1460	2.25	5.10	455	415	365	333	550	478	316	24	55	12	60	M20	178	1
2	AZU-C-75-4	75	1465	3.70	8.42	500	450	400	364	650	578	373	30	55	12	60	M20	249	2
6 Poles																			
1	AZU-C-15-6	15	960	1.10	2.73	370	330	280	265	557	484	325	24	32	8	36	M20	111	1
2	AZU-C-25-6	25	960	1.80	4.22	405	365	315	290	570	498	321	24	41	8	41	M20	162	1
3	AZU-C-35-6	35	975	2.40	5.55	455	415	365	333	590	518	336	24	45	12	50	M20	194	1
4	AZU-C-50-6	50	975	3.70	8.03	500	450	400	364	650	578	373	30	55	12	60	M20	262	2
5	AZU-C-75-6	75	980	6.00	13.69	530	480	430	404	741	669	409	30	55	12	60	M20	368	2
6	AZU-C-100-6	100	985	7.50	17.30	590	540	480	464	796	724	439	36	55	12	60	M20	510	3
7	AZU-C-135-6	135	980	9.00	20.28	700	650	580	574	800	724	435	36	53	18	60	M20	679	4
8	AZU-C-160-6	160	985	11.00	24.22	700	650	580	574	851	778	459	36	53	18	60	M20	761	4

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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