

AllianceMotori

Electric Vibrator Motor



AF-T SERIES

Introductions



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|----------------------|------------------|---------------------|-----------------------|------------------|
| 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.

AF/T SERIES

Concrete Vibrator Motor



Technical Parameters

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

Model	Vibrating Force		Max. Input Power (W)	Max. Current (A)	Weight (Kg)	Pedestal Model
	Kn	Kg.f				
AF-T6/50	0,49	50	85	0,18	17	03AL
AF-T6/100	0,98	100	103	0,22	19	03AL
AF-T6/200	0,97	200	170	0,37	20	03AL
AF-T6/300	2,95	300	250	0,54	22	03AL
AF-T6/400	3,92	400	310	0,67	24	3
AF-T6/500	4,91	500	402	0,87	29	3
AF-T6/800	7,84	800	550	1,19	46	70
AF-T6/1000	9,8	1000	745	1,61	62	70
AF-T6/1500	14,7	1500	1120	2,42	115	80
AF-T6/2000	19,6	2000	1868	4,04	117	90
AF-T6/3000	29,4	3000	2440	5,28	170	100
AF-T6/5000	49,0	5000	3510	5,33	360	110
AF-T6/7500	73,5	7500	4215	7,9	385	110
AF-T6/10000	98,0	10000	6200	9,43	490	120

Technical Parameter AF/T Series Vibration Motor

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

Model	Vibrating Force		Max. Input Power (W)	Max. Current (A)	Weight (Kg)	Pedestal Model
	Kn	Kg.f				
AF-T2/20	0,2	20	20	0,18	1,3	00AL
AF-T2/60	0,7	71	130	0,24	5,8	01AL
AF-T2/100	1	102	160	0,30	6	01AL
AF-T2/200	1,9	200	170	0,32	7	01AL
AF-T2/300	2,9	300	320	0,58	11	02AL
AF-T2/300	2,9	300	320	0,58	16,5	40
AF-T2/500	4,9	505	440	0,8	20	50
AF-T2/800	7,9	810	550	1	22,2	60
AF-T2/1300	12,8	1306	1100	2	39	70
AF-T2/1500	14,9	1520	1200	2,15	40	70
AF-T2/1800	18	1837	1450	3,2	45	70
AF-T2/2300	22,6	2310	1800	4	48,5	70
AF-T2/3200	32	3250	2300	6,5	100	80
AF-T2/4000	40	4030	3200	7	105	80
AF-T2/5000	50	5070	4150	7,8	116	90

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

AF-T2/20D	0,2	20	20	0,1	1,3	00AL
AF-T2/60D	0,6	62	86	0,43	6	01AL
AF-T2/100D	1,0	110	120	0,58	6,4	01AL
AF-T2/200D	1,97	210	150	0,71	8,5	02AL
AF-T2/300D	3	311	253	1,2	17,5	50
AF-T2/300D	2,9	311	253	1,2	17,5	03AL
AF-T2/500D	4,9	500	475	2,25	21	60

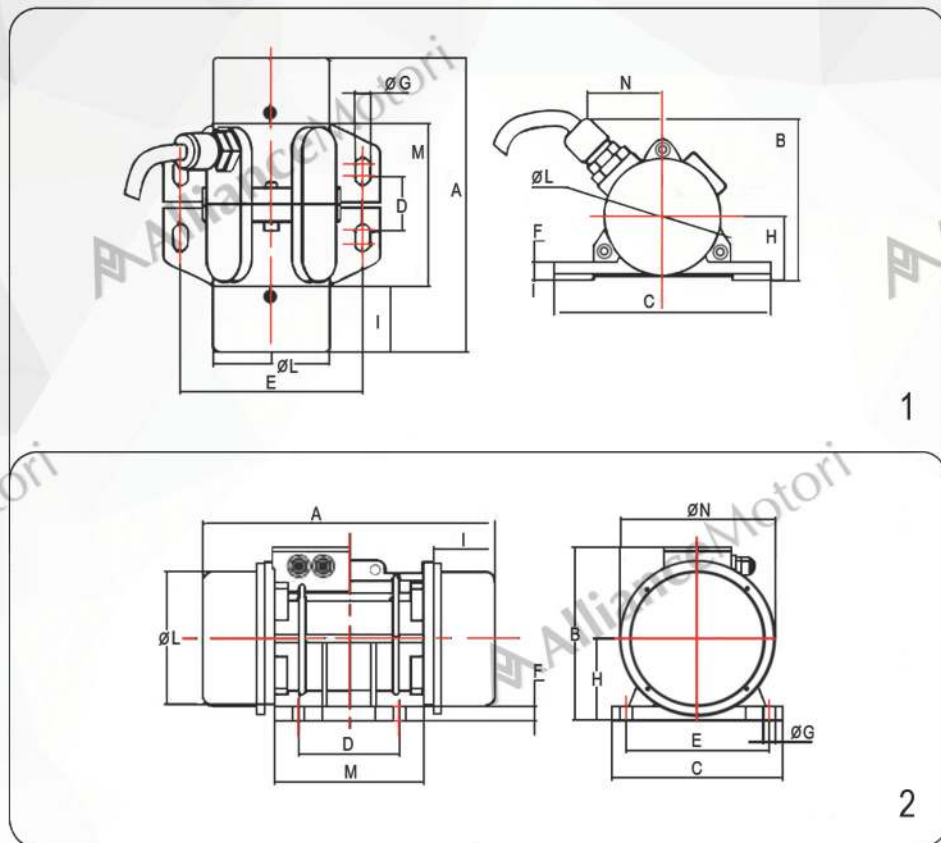
4 Poles - Three Phase (380V / 50 Hz)

Model	Vibrating Force		Max. Input Power (W)	Max. Current (A)	Weight (Kg)	Pedestal Model
	Kn	Kg.f				
AF-T4/40	0,4	45	40	0,1	6,8	01AL
AF-T4/80	0,8	80	94	0,24	7,1	01AL
AF-T4/100	0,98	100	120	0,28	14,2	03AL
AF-T4/100	0,98	100	120	0,28	16,2	40
AF-T4/200	2	210	200	0,4	15,2	03AL
AF-T4/200	2	210	200	0,4	18,2	40
AF-T4/400	4	410	360	0,65	22	50
AF-T4/500	5	510	390	0,7	2,6	60
AF-T4/700	6,9	700	550	0,98	28	60
AF-T4/1400	13,8	1410	850	1,5	42	70
AF-T4/1700	16,8	1720	1100	2	46	70
AF-T4/2400	23,6	2410	1500	3	50	70
AF-T4/3000	30	3060	1700	4	102	80
AF-T4/3800	38	3830	2500	5	118	90
AF-T4/5000	50	5010	3500	6,1	180	100
AF-T4/7500	75	7560	4500	7,6	350	110
AF-T4/10000	100	10110	5500	9,5	430	110

4 Poles - One Phase (220V / 50 Hz)

AF-T4/200D	1,97	210	175	0,75	15	03AL
AF-T4/300D	2,9	300	280	1,3	27	60
AF-T4/700D	6,8	700	550	2,9	58	70

Dimension of AF/T Series Vibration Motor



Pedestal Model	A	B	C	D	E	F	G	H	I	L	M	N	Figure
30	307/369	217	206	120	170	17	15	100	58/89	183	152	208	2
40	268	190	168	105	140	16	13	95	51	162	145	185	2
50	307	217	206	120	170	17	15	100	60	183	166	206	2
60	387	254	225	140	190	24	15	123	84	213	200	236	2
70	457	272	278	155	225	30	23	125	86	263	266	173	2
80	479	299	298	155	250	38	23	145	92	283	286	283	2
90	548	344	338	224	270	30	22	165	109	308	320	308	2
100	627	425	400	240	320	25	33	205	128	358	363	358	2
110	680	460	515	248	440	48	37	220	138	395	360	395	2
120	747	498	545	280	440	53	38	241	161	436	420	436	2
00AL	152	85	112	28/40	94	9	7,5	33	34	60	84	50	1
01AL	241	158	129	67	106	14	10	62	60	112	123	120	2
02AL	276	176	156	78/122	108	14	11	78	55	130	165	142	2
03AL	348	215	210	118	168	24	16	95	68	166	212	182	2

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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