

VIBRATOR TECHNICAL DATA SHEET

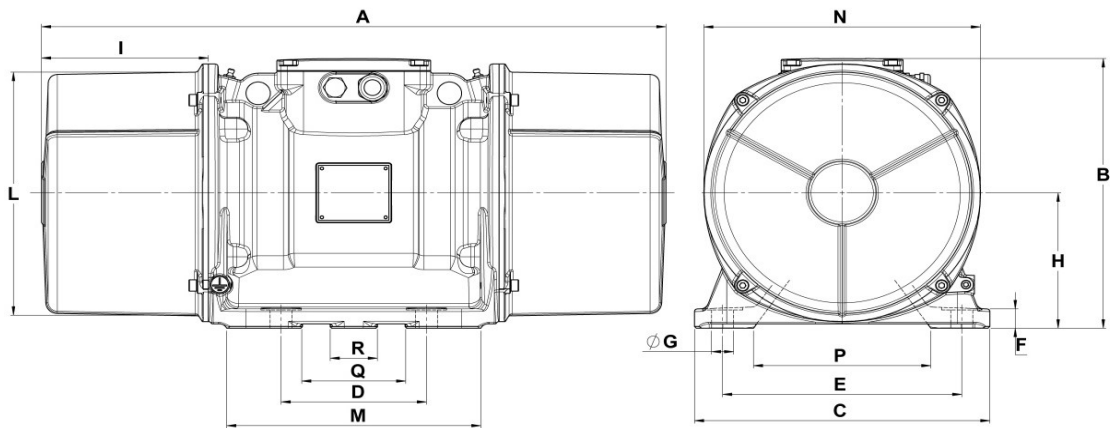
MODEL: MVS1 12-6050 230/460V 60Hz 3PH

ISSUED
2/29/2024

SERIES: AE FRAME SIZE: 70 P/N: 602167C

MECHANICAL CHARACTERISTICS						RPM	1200
IP66							
Weights Position %	Static moment		Centrifugal Force			Bearing Life (hrs) w/1.3 Load Factor	Bearing Life (hrs) w/1.0 Load Factor
	kgmm	in.-lb	kg	lb	kN		
100	1720	150	2747	6043	26.9	20379	48864
90	1548	135	2472	5439	24.2	28965	69453
80	1376	120	2198	4835	21.6	42850	> 100000
70	1204	105	1923	4230	18.9	66902	> 100000
60	1032	89.7	1648	3626	16.2	> 100000	> 100000
50	860	74.8	1374	3022	13.5	> 100000	> 100000
40	688	59.8	1099	2417	10.8	> 100000	> 100000
30	516	44.9	824	1813	8.08	> 100000	> 100000
20	344	29.9	549	1209	5.39	> 100000	> 100000
10	172	15.0	275	604	2.69	> 100000	> 100000
Weight:	97 kg (214 lb)		Bearing:		NJ 311 E C4		
Working Moment:	344 kgcm (300 in.-lb)		Dynamic load:		34995 lb (15907 kg)		
Max Static Moment:	1720 kgmm (150 in.-lb)		Lube schedule:		5000 hours		

ELECTRICAL CHARACTERISTICS					
				in-lb	Nm
Nominal input voltage:	230	460	Nominal torque:	123	13.8
Nominal current (amps):	7.5	3.75	Start torque:	315	35.3
Start current (amps):	42.0	21.0	Maximum torque:	389	43.6
Start/Nom. current ratio:	5.6		Start/nom. torque ratio:	2.56	
Input power (watts):	2100		Max/nom. torque ratio:	3.16	
Output power (hp):	2.3		Starting time (sec):	1.38	
Service Factor:	1.0		Duty cycle:	continuous	
Efficiency:	80%		Max. Ambient Temp.:	+ 40°C (104 F)	
Slip:	3%		Inertia kgm² (lb-ft²):	1.0512	29.1500
Power factor:	0.70		Inverter Duty:	20Hz to 60Hz	
Coil resist (Ω @ 20°C):	2.7		Equipped with 130°C PTC Thermistor (DIN VDE V 0898-1-401)		
Insulation class:	F				
Locked Rotor Code:	J				



	in.	mm
A:	26.22	666
B:	12.64	321
C:	12.40	315
D:	6.10	155
E:	10.04	255
ØG:	0.93	23.5
F:	1.06	27
H:	6.18	157
I:	7.01	178
L:	10.91	277
M:	10.67	271
N:	11.61	295
P:	7.52	191
Q:	3.94	100
R:	2.36	60

External cable diam.:	9 to 16 mm 0.354 to 0.630 inch.
Serv. length req.per side:	178 mm (7.01 inch.)
Mounting bolts:	M22 - (7/8")
Mounting bolt torque:	56 kgm (513 ft-lb)

Approvals and certifications	
  	ATEX 2014/34/UE - IECEx - UK SI II2D Ex tb IIIC T135°C Db
	CSA C22.2 N°100-95 Class 4211 01 Class II, Div. 2, Gr.FG, T3B
	TR CU 012/2011 Cert. N° RU C-IT.HB07.B.00614/22
	GB/T 3836.1-2021, 3836.31-2021 Ex tb IIIC T135°C Db