

# MVSI-E



The MVSI-E series has been designed for use in industrial processes in environments with a potentially explosive atmosphere, due to the presence of explosive gas and dust, in compliance with ATEX Directive (94/9/CE).

In particular, the MVSI-E series can be used in areas 1 and 2 (gas) and in areas 21 and 22 (dusts) according to the layout and following features:

## Technical features

### Power supply

Three-phase voltage from 220V to 690V, 50Hz or 60Hz; suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile tipo PWM.

### Polarity

2, 4, 6 and 8 poles.

### Conformity with European Directives

ATEX 94/9/EC; Low voltage 2006/95/EC.

### Reference Regulations

IEC/EN 60079-0, IEC/EN 60079-7, IEC/EN 60079-31, EN 60034-1.

### Controls

The components that affect protection are 100% accurately controlled and recorded.

### Functioning

Continual service (S1) at maximum declared centrifugal force and electric power.

### Centrifugal force

Range extended up to 11160 Kgf. (109 KN), adjustable in a continuous linear mode with variation of the position of the eccentric weights.

### Mechanical protection

IP 66 according to IEC 529, EN 60529.

### Protection against mechanical impacts

IK 08 according to IEC 68, EN 50102.

### Insulation class

Class F (155°C).

### Tropicalization

Standard on all vibrators, with vacuum encapsulation up to size AF 33 and 35, with "drop by drop" trickle system for larger sizes.

### Ambient temperature

From -20°C to +40°C, on request it is possible to have vibrators for max. ambient temperatures of +55°C.

### Vibrator thermal protection

Standard PTC rated thermistor heat detectors 130°C (DIN 44081-44082) from size 70, on request for smaller sizes. On request, thermistors with different temperatures and anti-condensation heaters.

### 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 ("FOR LIFE" lubrication). In heavy duty operating conditions periodical re-lubrication may be applied to size 35 and larger.

### 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. Insulated windings using vacuum encapsulating up to size 35; using the "drop by drop" trickle system with class H resin for larger sizes. The rotor is die cast aluminium.

### Casing

In high-tensile aluminium alloy up to size 60, in spheroidal cast iron for larger sizes. Patented shape that improves heat dispersion and lowers normal working temperature at full load. An external earthing screw is located on the casing as prescribed by Regulation IEC/EN 60079-0.

### 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.

### Bearings

Custom made with particular geometry, especially designed for Italtvibras, suitable to support both high radial and axial loads.

**Category:** II 2 GD

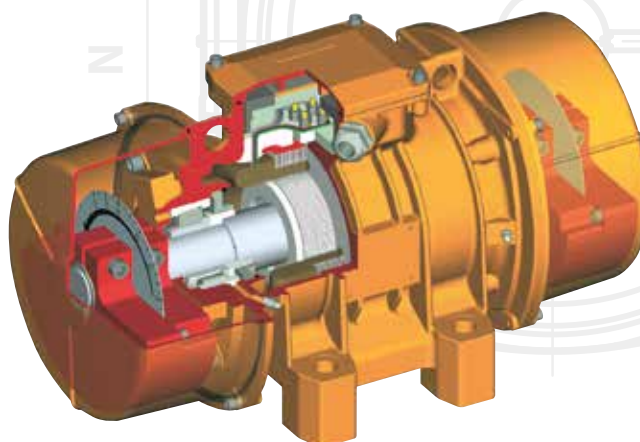
**Level of protection:** Ex e IIC T3/T4 Gb, Ex tb IIIC T...°C Db

**Temperature class:** Gas: T3 (200°C) or T4 (135°C)

Dust: see tab. page 26-33

**EC certificate:** LCIE 06 ATEX 6092 X

**Zones of use:** 1, 2, 21, 22



#### 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.

A patented system (patent N°MO98A000194), called ARS, prevents adjustment errors.

#### Weight covers

In aluminium alloy.

#### Painting

Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 200°C. Tested in salt spray for 500 hours.

#### Stainless steel protection

On request, corrosion high grade protection (stainless steel AISI 316L micro suspensions in a polyurethanic paint) is available.

**Several sizes are available with different mounting bolt patterns. Please contact sales office at Italtibras.**

#### Certifications



II 2 GD - Class Ex e IIC T3/T4 Gb,  
Ex tb IIIC T...°C Db  
IEC/EN 60079-0, IEC/EN 60079-7,  
IEC/EN 60079-31,  
Certificate n° LCIE 06 ATEX 6092 X



GGTN Permit and Gost-R certificate:  
Ex e II T3/T4 - DIP A21 IP66  
GOST R 51330.0-99,  
GOST R 51330.8-99, GOST R IEC 61241-1-1-99.



Certificate of Conformity  
n° IECEx LCI 10.0003X  
standards IEC 60079-0, IEC 60079-7,  
IEC 60079-31



Comply with the applicable  
European Union directives  
Low voltage (2006/95/EC)  
ATEX (94/9/EC).



KOSHA Korea  
Certificate n° 11-AV4 BO-0346/7/8/9/50/51  
Ex e II T3/T4 - Ex td A21 IP66

# MVSI-E



## 2 poles - 3000/3600 rpm

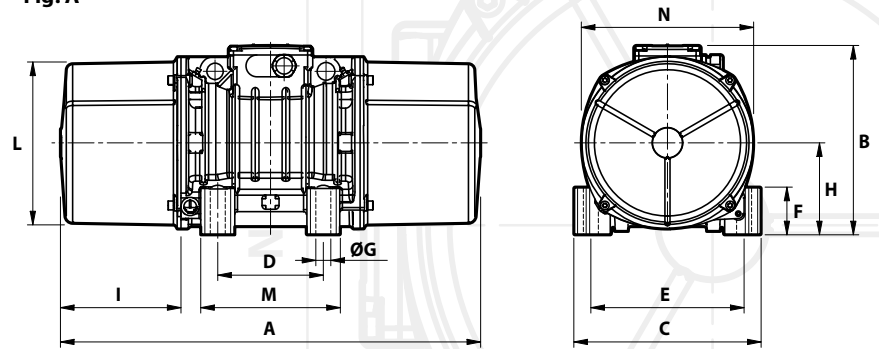
Description			Mechanical specifications								Electrical specifications						
Code	Type	SIZE	Static moment* kgmm		Centrifugal force				Weight kg		Temp. class (G)	Temp. class (D)	Max input power W		Power rating W		
			50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz			50 Hz	60 Hz	50 Hz	60 Hz	
three-phase	6E0311	MVSI 3/100E-S02 ▲	00	12.0	12.0	121	174	1.19	1.71	5.60	5.60	T3 T4	120°C	180 105	180 105	120 80	120 80
	6E0312	MVSI 3/200E-S02 ▲	01	21.0	15.0	211	218	2.07	2.14	6.40	6.20	T3	120°C	180	180	120	120
	6E0313	MVSI 3/300E-S02	10	30.1	20.4	304	297	2.98	2.91	9.70	9.20	T3 T4	120°C	260 230	270 230	210 172	210 172
	6E0314	MVSI 3/500E-S02	20	49.9	32.4	503	471	4.93	4.62	14.8	13.8	T3 T4	120°C	500 350	500 360	300 210	300 210
	6E0381	MVSI 3/800E-S02	30	78.0	52.0	785	754	7.70	7.40	21.0	20.0	T3 T4	120°C	550 390	570 400	405 290	405 290
	6E0513	MVSI 3/1100E-S02	35	110	73.0	1105	1061	10.8	10.4	23.0	22.0	T3 T4	120°C	550 460	600 500	350 290	350 290
	6E0491	MVSI 3/1300E-S08	AF33	128	91.6	1290	1327	12.7	13.0	27.0	24.7	T4	200°C	700	750	500	500
	6E0504	MVSI 3/1500E-S08	AF33	146	110	1470	1595	14.4	15.6	25.3	24.0	T4	200°C	700	750	500	500
	6E0502	MVSI 3/1600E-S02	50	153	102	1545	1483	15.2	14.5	33.0	31.5	T3 T4	200°C	1010 830	1070 910	720 660	720 660
	6E0503	MVSI 3/1800E-S02	50	179	128	1802	1853	17.7	18.2	34.0	32.5	T3	200°C	1010	1070	720	720
	6E0256	MVSI 3/2010E-S90	AF50	205	128	2059	1853	20.2	18.2	48.7	46.3	T3	200°C	1110	1150	960	960
	6E0257	MVSI 3/2310E-S90	AF50	230	153	2316	2224	22.7	21.8	49.6	47.1	T3	200°C	1110	1150	960	960
	6E0472	MVSI 3/5000E-S02	AF70	515	344	5187	4979	50.9	48.8	109	105	T3	135°C	3000	3000	2600	2600

\* Working moment = 2 x static moment.

▲ Available only in versions 127/220V 50Hz three-phase, 200/346V 50Hz three-phase and 210/363V 60Hz three-phase.



Fig. A



Dimensional specifications (mm)

Max. current A		t <sub>E</sub> (s)	I <sub>a</sub> /I <sub>n</sub>	Type	Fig.	A	B	C	D	E	Holes		F	H	I	L	M	N	Cable entry thread
400 V 50 Hz	460 V 60 Hz										øG	N°							
0.33 0.26	0.30 0.23	30 20	2.68 3.48	<b>MVSI 3/100E-S02 ▲</b>	A	211	153	125	<b>62-74**</b>	<b>106</b>	<b>9</b>	<b>4</b>	24	61	46	103	100	117	M20x1,5
0.33	0.30	30	2.68	<b>MVSI 3/200E-S02 ▲</b>	A	235	153	125	<b>62-74**</b>	<b>106</b>	<b>9</b>	<b>4</b>	24	61	58	103	100	117	M20x1,5
0.57 0.48	0.50 0.41	18 12	3.50 4.20	<b>MVSI 3/300E-S02</b>	A	255	179	152	<b>90</b>	<b>125</b>	<b>13</b>	<b>4</b>	28	73	54	127	128	141	M20x1,5
0.76 0.57	0.67 0.50	12 8	4.20 5.60	<b>MVSI 3/500E-S02</b>	A	288	203	167	<b>105</b>	<b>140</b>	<b>13</b>	<b>4</b>	30	82.5	65	145	140	160	M25x1,5
0.95 0.72	0.83 0.64	12 8	4.20 5.52	<b>MVSI 3/800E-S02</b>	A	308	216	205	<b>120</b>	<b>170</b>	<b>17</b>	<b>4</b>	45	93.5	63	170	160	182	M25x1,5
0.86 0.76	0.75 0.67	15 11	3.88 4.37	<b>MVSI 3/1100E-S02</b>	A	435	225	205	<b>120</b>	<b>170</b>	<b>17</b>	<b>4</b>	54	104.5	117.5	187	162	203	M25x1,5
1.24	1.07	6	6.40	<b>MVSI 3/1300E-S08</b>	A	375	216.5	215	<b>100</b>	<b>180</b>	<b>17</b>	<b>4</b>	47	93.5	106	170	145	182	M25x1,5
1.24	1.07	6	6.40	<b>MVSI 3/1500E-S08</b>	A	375	216.5	215	<b>100</b>	<b>180</b>	<b>17</b>	<b>4</b>	47	93.5	106	170	145	182	M25x1,5
1.62 1.43	1.40 1.25	6 6	9.29 7.30	<b>MVSI 3/1600E-S02</b>	A	430	246	230	<b>140</b>	<b>190</b>	<b>17</b>	<b>4</b>	54	116	99	207	190	225	M25x1,5
1.62	1.40	6	9.29	<b>MVSI 3/1800E-S02</b>	A	430	246	230	<b>140</b>	<b>190</b>	<b>17</b>	<b>4</b>	54	116	99	207	190	225	M25x1,5
1.90	1.66	7	5.90	<b>MVSI 3/2010E-S90</b>	A	465	230	230	<b>140</b>	<b>190</b>	<b>17</b>	<b>4</b>	49	104	105	186	180	200	M25x1,5
1.90	1.66	7	5.90	<b>MVSI 3/2310E-S90</b>	A	465	230	230	<b>140</b>	<b>190</b>	<b>17</b>	<b>4</b>	49	104	105	186	180	200	M25x1,5
4.75	4.20	5	8.00	<b>MVSI 3/5000E-S02</b>	A	560	290	310	<b>155</b>	<b>255</b>	<b>25</b>	<b>4</b>	90	130	137	238	210	253	M25x1,5

t<sub>E</sub> (s) = set time t<sub>E</sub> from IEC/EN 60079-7. I<sub>a</sub>/I<sub>n</sub> = ratio between start-up current and maximum current. \*\* Slot.  
**Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.**

# MVSI-E



## 4 poles - 1500/1800 rpm

Description			Mechanical specifications								Electrical specifications						
Code	Type	SIZE	Static moment* kgmm		Centrifugal force				Weight kg		Temp. class (G)	Temp. class (D)	Max input power W		Power rating W		
			50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz			50 Hz	60 Hz	50 Hz	60 Hz	
three-phase	6E1367	MVSI 15/200E-S02	10	84.2	58.8	213	214	2.09	2.10	12.5	11.7	T4	120°C	203	175	90	95
	6E1372	MVSI 15/400E-S02	20	163	113	412	411	4.04	4.03	19.0	18.2	T3 T4	120°C	300 285	320 270	200 180	230 200
	6E1373	MVSI 15/550E-S02	20	219	163	552	592	5.42	5.81	20.4	19.0	T3 T4	120°C	300 285	320 270	200 180	230 200
	6E1408	MVSI 15/700E-S02	30	286	209	720	760	7.06	7.46	27.5	26.2	T3 T4	120°C	460 360	500 420	310 240	380 310
	6E1524	MVSI 15/1100E-S02	35	415	271	1045	982	10.3	9.63	35.0	30.5	T4	120°C	370	450	285	340
	6E1217	MVSI 15/1410E-S02	40	561	400	1413	1449	13.9	14.2	44.0	41.0	T3 T4	120°C	900 630	950 700	660 460	730 505
	6E1219	MVSI 15/1710E-S02	50	715	485	1798	1757	17.6	17.2	51.0	48.5	T3 T4	150°C	1100 630	1150 700	730 480	800 530
	6E1267	MVSI 15/2000E-S02	50	817	561	2054	2033	20.1	19.9	55.5	51.5	T3 T4	150°C	1100 630	1150 700	730 480	800 530
	6E1220	MVSI 15/2410E-S08	60	962	674	2420	2444	23.7	24.0	71.0	66.0	T3 T4	150°C	1600 1150	1700 1250	1340 880	1470 970
	6E1268	MVSI 15/3000E-S08	60	1235	858	3106	3107	30.5	30.5	80.0	73.5	T3 T4	135°C	1280 1150	1550 1400	1000 900	1200 1080
	6E1221	MVSI 15/3810E-S02	70	1526	1034	3840	3744	37.7	36.7	119	110	T3 T4	135°C	2200 1850	2400 1950	1780 1500	1960 1650
	6E1269	MVSI 15/4300E-S02	70	1720	1173	4326	4250	42.4	41.7	123	117	T3 T4	135°C	2200 1850	2400 1950	1780 1500	1960 1650
	6E1211	MVSI 15/5010E-S02	80	1990	1364	5007	4911	49.1	48.5	161	153	T3	135°C	3200	3700	2560	2800
	6E1447	MVSI 15/6000E-S02	80	2261	1560	5690	5650	55.8	55.4	163.5	155	T3	135°C	3200	3700	2560	2800
	6E1204	MVSI 15/9500E-S02	97	3346	2462	8416	8916	82.6	87.5	317	303	T3	135°C	7300	7900	5925	6500

\* Working moment = 2 x static moment.

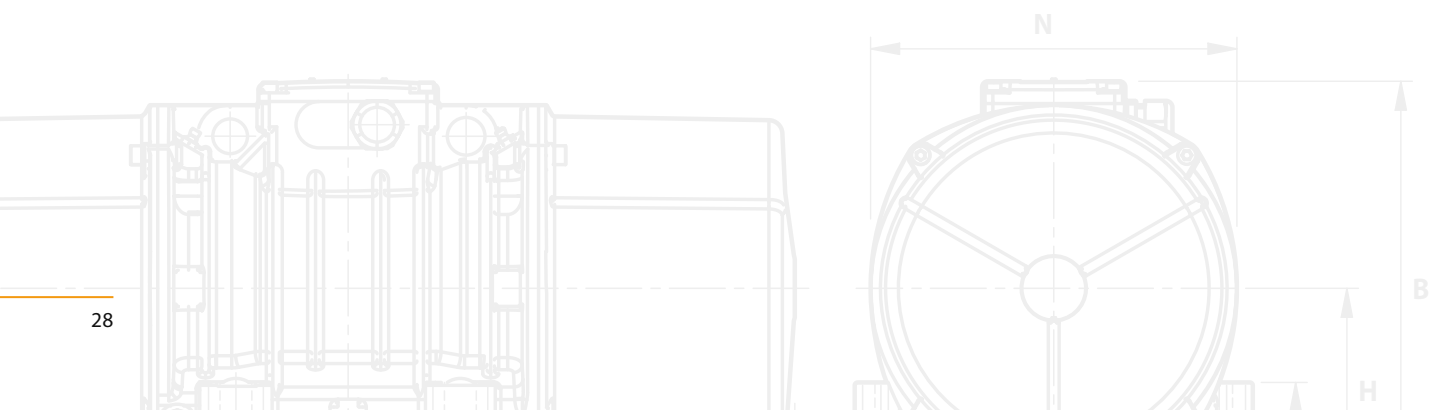


Fig. A

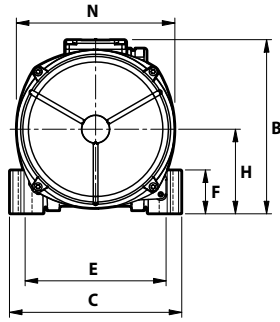
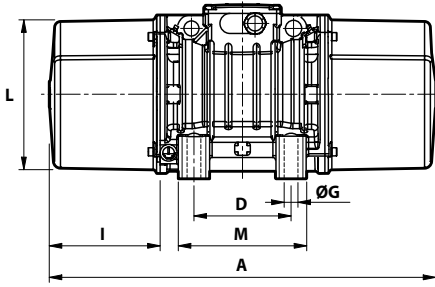
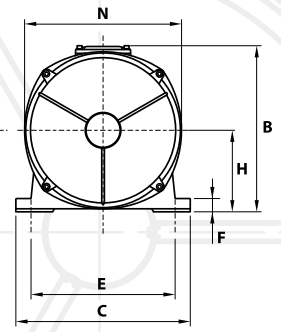
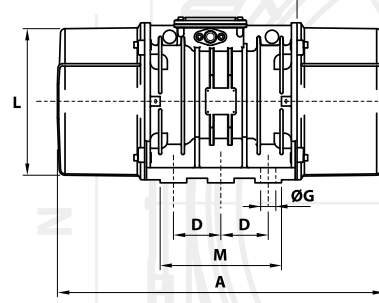


Fig. C



Dimensional specifications (mm)

Max. current A		t <sub>E</sub> (s)	I <sub>A</sub> /I <sub>N</sub>	Type	Fig.	A	B	C	D	E	Holes		F	H	I	L	M	N	Cable entry thread
400 V 50 Hz	460 V 60 Hz										øG	N°							
0.45	0.40	35 (50Hz) 28 (60Hz)	2.04 (50Hz) 2.34 (60Hz)	MVSI 15/200E-S02	A	301	179	152	90	125	13	4	28	73	77	127	128	141	M20x1,5
0.57	0.52	18	3.33	MVSI 15/400E-S02	A	344	203	167	105	140	13	4	30	82.5	93	145	140	160	M25x1,5
0.57	0.52	18	3.33	MVSI 15/550E-S02	A	386	203	167	105	140	13	4	30	82.5	114	145	140	160	M25x1,5
0.52	0.46	16	3.63	MVSI 15/700E-S02	A	394	216	205	120	170	17	4	45	93.5	106	170	160	182	M25x1,5
0.86	0.85	17	3.5	MVSI 15/1100E-S02	A	435	225	205	120	170	17	4	54	104.5	117.5	187	162	203	M25x1,5
0.72	0.70	12	4.2	MVSI 15/1410E-S02	A	448	246	230	140	190	17	4	54	116	108	207	190	225	M25x1,5
1.38	1.32	13	4	MVSI 15/1710E-S02	A	500	246	230	140	190	17	4	54	116	134	207	190	225	M25x1,5
1.05	1.00	8	5.36	MVSI 15/2000E-S02	A	574 (50Hz) 500 (60Hz)	246	230	140	190	17	4	54	116	171 (50Hz) 134 (60Hz)	207	190	225	M25x1,5
1.90	1.82	9	4.95	MVSI 15/2410E-S08	A	537	272	275	155	225	22	4	70	130	137	238	210	253	M25x1,5
1.33	1.27	5.5	7	MVSI 15/3000E-S08	A	617	272	275	155	225	22	4	70	130	177	238	210	253	M25x1,5
3.04	3.20	7	6	MVSI 15/3810E-S02	A	584	321	310	155	255	23.5	4	77	157	137	277	215	295	M25x1,5
2.47	2.30	5.5	7.5	MVSI 15/4300E-S02	A	666 (50Hz) 584 (60Hz)	321	310	155	255	23.5	4	77	157	178 (50Hz) 137 (60Hz)	277	215	295	M25x1,5
3.14	3.10	5.5	7.42	MVSI 15/5010E-S02	A	630	347	340	180	280	26	4	80	165	150	303	240	320	M32x1,5
2.85	2.85	5.5	8.16	MVSI 15/6000E-S02	A	680	370	390	200	320	28	4	90	180	160	330	270	350	M32x1,5
3.71	3.50	6	7.17	MVSI 15/9500E-S02	C	862	437	460	125	380	39	6	35	215	230	387	320	414	M32x1,5
3.14	3.00	6	8.42																
3.71	3.50	6	7.17																
3.14	3.00	6	8.42																

t<sub>E</sub> (s) = set time t<sub>E</sub> from IEC/EN 60079-7. I<sub>A</sub>/I<sub>N</sub> = ratio between start-up current and maximum current. Several sizes are available with different mounting bolt patterns. Please contact sales office at Italtibras.

# MVSI-E



## 6 poles - 1000/1200 rpm

Description			Mechanical specifications								Electrical specifications						
Code	Type	SIZE	Static moment* kgmm		Centrifugal force				Weight kg		Temp. class (G)	Temp. class (D)	Max input power W		Power rating W		
			50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz			50 Hz	60 Hz	50 Hz	60 Hz	
three-phase	6E2298	MVSI 10/200E-S02	20	163	163	<b>183</b>	<b>264</b>	<b>1.80</b>	<b>2.59</b>	19.0	19.0	T4	120°C	185	200	100	110
	6E2314	MVSI 10/310E-S02	30	286	209	<b>321</b>	<b>338</b>	<b>3.15</b>	<b>3.32</b>	27.5	26.2	T4	120°C	320	350	201	221
	6E2402	MVSI 10/550E-S02	35	457	457	<b>512</b>	<b>737</b>	<b>5.02</b>	<b>7.23</b>	36.5	36.5	T4	120°C	350	380	240	264
	6E2380	MVSI 10/810E-S08	40	723	561	<b>809</b>	<b>905</b>	<b>7.94</b>	<b>8.88</b>	48.0	44.0	T3 T4	135°C	680 500	730 540	448 290	490 320
	6E2381	MVSI 10/1110E-S08	50	1012	715	<b>1132</b>	<b>1151</b>	<b>11.1</b>	<b>11.3</b>	58.0	51.0	T3 T4	135°C	750 480	690 500	550 300	550 300
	6E2382	MVSI 10/1400E-S08	50	1274	921	<b>1424</b>	<b>1483</b>	<b>14.0</b>	<b>14.5</b>	66.0	59.5	T3 T4	135°C	750 480	690 500	550 300	550 300
	6E2406	MVSI 10/1610E-S08	60	1464	962	<b>1638</b>	<b>1549</b>	<b>16.1</b>	<b>15.2</b>	83.0	71.0	T3 T4	135°C	1100 850	1200 950	825 615	900 675
	6E2407	MVSI 10/2100E-S08	60	1927	1318	<b>2154</b>	<b>2102</b>	<b>21.1</b>	<b>20.6</b>	93.0	82.0	T3 T4	155°C	1500 1050	1700 1200	940 750	1020 820
	6E2167	MVSI 10/2610E-S02	70	2326	1706	<b>2601</b>	<b>2747</b>	<b>25.5</b>	<b>26.9</b>	130	116	T3	135°C	1960	2100	1580	1700
	6E2230	MVSI 10/3000E-S02	70	2690	1940	<b>3007</b>	<b>3124</b>	<b>29.5</b>	<b>30.6</b>	145	130	T3 T4	135°C	2200 1770	2400 1900	1630 1350	1770 1470
	6E2154	MVSI 10/3810E-S02	80	3422	2380	<b>3826</b>	<b>3831</b>	<b>37.5</b>	<b>37.6</b>	188	170	T3 T4	135°C	2200 2000	2700 2200	1575 1500	1730 1650
	6E2204	MVSI 10/4700E-S02	80	4206	2887	<b>4701</b>	<b>4648</b>	<b>46.1</b>	<b>46.0</b>	204	183	T3 T4	135°C	3100 2550	3500 3000	2500 2100	2770 2290
	6E2350	MVSI 10/5150E-S02	80	4678	3230	<b>5230</b>	<b>5200</b>	<b>51.3</b>	<b>51.0</b>	225	200	T3 T4	135°C	3100 2550	3500 3000	2500 2100	2770 2290
	6E2138	MVSI 10/5200E-S02	90	4658	3288	<b>5208</b>	<b>5293</b>	<b>51.1</b>	<b>51.9</b>	228	205	T3	135°C	3500	3650	2590	2700
	6E2351	MVSI 10/5700E-S02	90	5044	3490	<b>5650</b>	<b>5620</b>	<b>55.4</b>	<b>55.1</b>	230	210	T3	135°C	3500	3650	2590	2700
	6E2136	MVSI 10/6600E-S02	97	6083	3979	<b>6799</b>	<b>6405</b>	<b>66.7</b>	<b>62.8</b>	285	257	T3	135°C	4200	4800	3360	3550
	6E2137	MVSI 10/10000E-S02	97	8673	5664	<b>9695</b>	<b>9117</b>	<b>95.1</b>	<b>89.4</b>	381	340	T3	135°C	5400	5900	4500	4800
	6E2349	MVSI 10/11200E-S02	97	9983	6896	<b>11160</b>	<b>11100</b>	<b>109</b>	<b>109</b>	405	370	T3	135°C	5400	5900	4500	4800

\* Working moment = 2 x static moment.



Fig. A

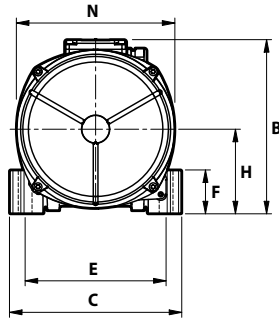
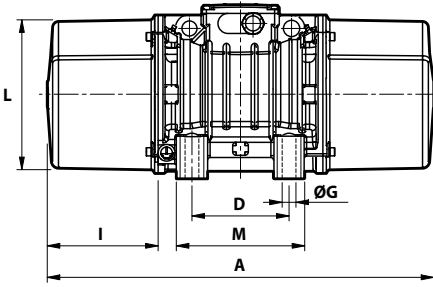
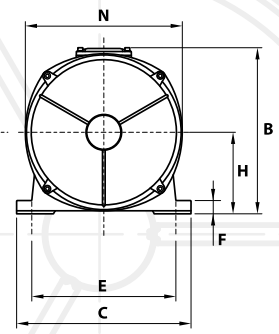
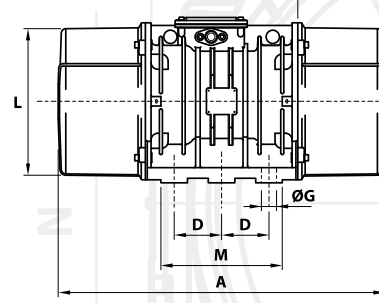


Fig. C



Dimensional specifications (mm)

Max. current A		t <sub>E</sub> (s)	I <sub>A</sub> /I <sub>N</sub>	Type	Fig.	Holes											Cable entry thread		
400 V 50 Hz	460 V 60 Hz					A	B	C	D	E	øG	N°	F	H	I	L		M	N
0.48	0.45	25	2.72	MVSI 10/200E-S02	A	344	203	167	105	140	13	4	30	82.5	93	145	140	160	M25x1,5
0.67	0.65	25	2.81	MVSI 10/310E-S02	A	394	216	205	120	170	17	4	45	93.5	106	170	160	182	M25x1,5
0.71	0.68	26	2.40	MVSI 10/550E-S02	A	435	225	205	120	170	17	4	54	104.5	117.5	187	162	203	M25x1,5
1.33 1.05	1.27 1.00	25 17	2.78 3.54	MVSI 10/810E-S08	A	500 (50Hz) 448 (60Hz)	246	230	140	190	17	4	54	116	134 (50Hz) 108 (60Hz)	207	190	225	M25x1,5
1.57 1.24	1.36 1.00	19 13	3.33 4.23	MVSI 10/1110E-S08	A	574	246	230	140	190	17	4	54	116	171	207	190	225	M25x1,5
1.57 1.24	1.36 1.00	19 13	3.33 4.23	MVSI 10/1400E-S08	A	574	246	230	140	190	17	4	54	116	171	207	190	225	M25x1,5
2.09 1.81	2.00 1.70	15 10	3.63 4.73	MVSI 10/1610E-S08	A	617 (50Hz) 537 (60Hz)	272	275	155	225	22	4	70	130	177 (50Hz) 137 (60Hz)	238	210	253	M25x1,5
2.85 2.19	2.75 2.10	9 8	4.50 4.89	MVSI 10/2100E-S08	A	663 (50Hz) 617 (60Hz)	272	275	155	225	22	4	70	130	200 (50Hz) 177 (60Hz)	238	210	253	M25x1,5
3.90	3.70	8	5.31	MVSI 10/2610E-S02	A	666	321	310	155	255	23.5	4	77	157	178	277	215	295	M25x1,5
4.28 3.71	4.30 3.60	8 5	4.82 5.56	MVSI 10/3000E-S02	A	712	321	310	155	255	23.5	4	77	157	201	277	215	295	M25x1,5
4.85 4.28	4.60 4.00	7 6	5.88 6.66	MVSI 10/3810E-S02	A	734	347	340	180	280	26	4	80	165	200	303	240	320	M32x1,5
6.18 5.42	6.00 5.20	10 6	5.23 5.96	MVSI 10/4700E-S02	A	796	347	340	180	280	26	4	80	165	233	303	240	320	M32x1,5
6.18 5.42	6.00 5.20	10 6	5.23 5.96	MVSI 10/5150E-S02	A	826	347	340	180	280	26	4	80	165	248	303	240	320	M32x1,5
6.65	6.10	10	4.64	MVSI 10/5200E-S02	A	744	370	390	200	320	28	4	90	180	192	330	270	350	M32x1,5
6.65	6.10	10	4.64	MVSI 10/5700E-S02	A	840	370	390	200	320	28	4	90	180	240	330	270	350	M32x1,5
7.60	7.00	5.3	6.67	MVSI 10/6600E-S02	C	750	437	460	125	380	39	6	35	215	174	387	320	414	M32x1,5
9.98	9.10	7	6.00	MVSI 10/10000E-S02	C	862	437	460	125	380	39	6	35	215	230	387	320	414	M32x1,5
9.98	9.10	7	6.00	MVSI 10/11200E-S02	C	912	437	460	125	380	39	6	35	215	255	387	320	414	M32x1,5

t<sub>E</sub> (s) = set time t<sub>E</sub> from IEC/EN 60079-7. I<sub>A</sub>/I<sub>N</sub> = ratio between start-up current and maximum current.  
 Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.



# MVSI-E



## 8 poles - 750/900 rpm

Description			Mechanical specifications								Electrical specifications						
Code	Type	SIZE	Static moment* kgmm		Centrifugal force				Weight kg		Temp. class (G)	Temp. class (D)	Max input power W		Power rating W		
			50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz			50 Hz	60 Hz	50 Hz	60 Hz	
three-phase	6E2568	MVSI 075/150E-S02	20	163	163	<b>104</b>	<b>149</b>	<b>1.02</b>	<b>1.46</b>	19.0	19.0	T3	130°C	230	250	100	110
	6E2575	MVSI 075/250E-S02	30	286	286	<b>181</b>	<b>260</b>	<b>1.76</b>	<b>2.55</b>	27.5	27.5	T3	130°C	350	350	190	205
	6E2615	MVSI 075/400E-S02	35	457	457	<b>288</b>	<b>415</b>	<b>2.83</b>	<b>4.07</b>	36.5	36.5	T4	120°C	280	300	135	150
	6E2609	MVSI 075/660E-S08	40	723	723	<b>456</b>	<b>656</b>	<b>4.47</b>	<b>6.44</b>	48.0	48.0	T3	120°C	500	525	275	302
	6E2610	MVSI 075/910E-S08	50	1012	1012	<b>637</b>	<b>917</b>	<b>6.25</b>	<b>9.00</b>	58.0	58.0	T3 T4	120°C	600 450	670 500	336 225	380 255
	6E2618	MVSI 075/1310E-S08	60	1464	1464	<b>922</b>	<b>1327</b>	<b>9.04</b>	<b>13.0</b>	83.0	83.0	T3	150°C	950	1100	646	740
	6E2891	MVSI 075/2110E-S02	70	2326	2326	<b>1463</b>	<b>2107</b>	<b>14.4</b>	<b>20.7</b>	130	130	T3	135°C	1500	1650	1065	1225
	6E2884	MVSI 075/3110E-S02	80	3421	3421	<b>2152</b>	<b>3099</b>	<b>21.1</b>	<b>30.4</b>	188	188	T3	135°C	2000	2200	1460	1600
	6E2515	MVSI 075/3800E-S02	80	4206	4206	<b>2645</b>	<b>3808</b>	<b>25.9</b>	<b>37.4</b>	204	204	T3	135°C	2500	3000	1800	2100
	6E2862	MVSI 075/4200E-S02	90	4658	4658	<b>2930</b>	<b>4218</b>	<b>28.7</b>	<b>41.4</b>	228	228	T3	135°C	2630	2990	1900	2180
	6E2826	MVSI 075/5300E-S02	90	5838	5838	<b>3672</b>	<b>5287</b>	<b>36.0</b>	<b>51.9</b>	258	258	T3	135°C	3520	3800	2570	2775
	6E2870	MVSI 075/10000E-S02	97	12390	10973	<b>7792</b>	<b>9937</b>	<b>76.4</b>	<b>97.5</b>	438	419	T3	135°C	5100	5800	4100	4500

\* Working moment = 2 x static moment.

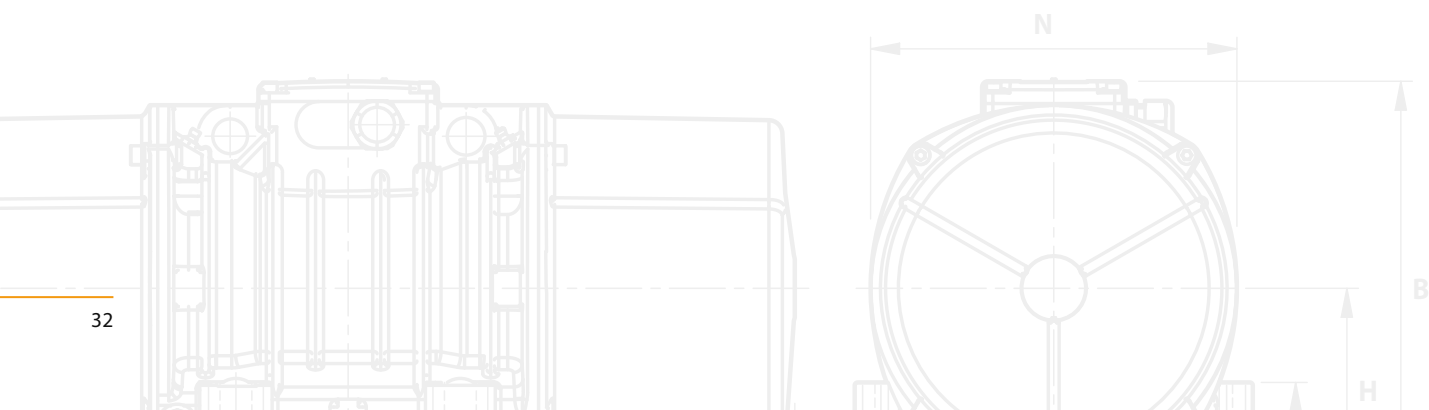


Fig. A

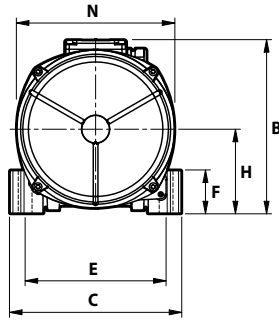
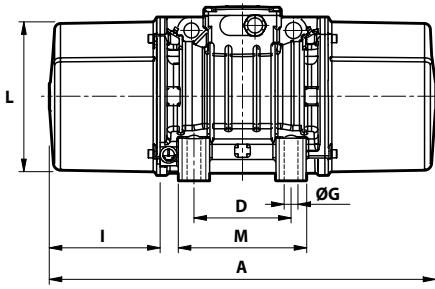
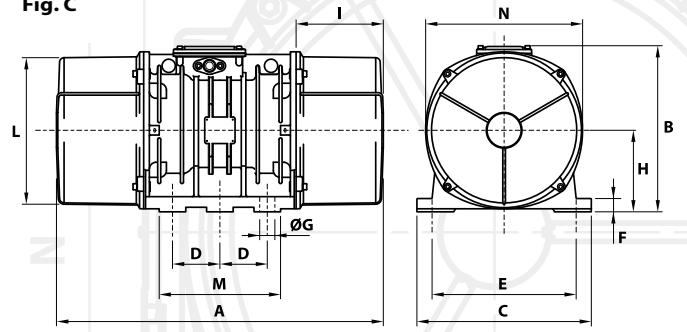


Fig. C



Dimensional specifications (mm)

Max. current A		t <sub>E</sub> (s)	I <sub>A</sub> /I <sub>N</sub>	Type	Fig.	A	B	C	D	E	Holes		F	H	I	L	M	N	Cable entry thread
400 V 50 Hz	460 V 60 Hz										øG	N°							
0.67	0.64	25	2.00	<b>MVSI 075/150E-S02</b>	<b>A</b>	344	203	167	<b>105</b>	<b>140</b>	<b>13</b>	<b>4</b>	30	82.5	93	145	140	160	M25x1,5
0.86	0.80	25	2.47	<b>MVSI 075/250E-S02</b>	<b>A</b>	394	216	205	<b>120</b>	<b>170</b>	<b>17</b>	<b>4</b>	45	93.5	106	170	160	182	M25x1,5
0.57	0.56	30	1.66	<b>MVSI 075/400E-S02</b>	<b>A</b>	435	225	205	<b>120</b>	<b>170</b>	<b>17</b>	<b>4</b>	54	104.5	117.5	187	162	203	M25x1,5
1.14	1.10	30	2.15	<b>MVSI 075/660E-S02</b>	<b>A</b>	500	246	230	<b>140</b>	<b>190</b>	<b>17</b>	<b>4</b>	54	116	134	207	190	225	M25x1,5
1.33	1.30	30	2.14	<b>MVSI 075/910E-S02</b>	<b>A</b>	574	246	230	<b>140</b>	<b>190</b>	<b>17</b>	<b>4</b>	54	116	171	207	190	225	M25x1,5
1.14	1.10	25	2.50																
2.09	2.10	30	2.63	<b>MVSI 075/1310E-S02</b>	<b>A</b>	617	272	275	<b>155</b>	<b>225</b>	<b>22</b>	<b>4</b>	70	130	177	238	210	253	M25x1,5
3.61	3.60	15	4.18	<b>MVSI 075/2110E-S02</b>	<b>A</b>	666	321	310	<b>155</b>	<b>255</b>	<b>23.5</b>	<b>4</b>	77	157	178	277	215	295	M25x1,5
5.13	5.00	13	3.96	<b>MVSI 075/3110E-S02</b>	<b>A</b>	734	347	340	<b>180</b>	<b>280</b>	<b>26</b>	<b>4</b>	80	165	202	303	240	320	M32x1,5
5.70	6.00	14	4.00	<b>MVSI 075/3800E-S02</b>	<b>A</b>	796	347	340	<b>180</b>	<b>280</b>	<b>26</b>	<b>4</b>	80	165	233	303	240	320	M32x1,5
6.18	6.20	14	3.84	<b>MVSI 075/4200E-S02</b>	<b>A</b>	744	370	390	<b>200</b>	<b>320</b>	<b>28</b>	<b>4</b>	90	180	192	330	270	350	M32x1,5
7.79	7.40	14	3.80	<b>MVSI 075/5300E-S02</b>	<b>A</b>	840	370	390	<b>200</b>	<b>320</b>	<b>28</b>	<b>4</b>	90	180	240	330	270	350	M32x1,5
11.4	11.0	17	3.50	<b>MVSI 075/10000E-S02</b>	<b>C</b>	1002	437	460	<b>125</b>	<b>380</b>	<b>39</b>	<b>6</b>	35	215	300	387	320	414	M32x1,5

t<sub>E</sub> (s) = set time t<sub>E</sub> from IEC/EN 60079-7. I<sub>A</sub>/I<sub>N</sub> = ratio between start-up current and maximum current.  
**Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.**