



MVSI



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 **italvibras**
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MVSI

The MVSI series represents the line of reference products for manufacturers of vibrating machines and plants operating in many industrial sectors and is made up of the largest range on the market, with centrifugal force values up to 30500 Kgf (300kN).

It is characterized by the continuous technological evolution in view of a continuous improvement in performance.

The MVSI series is designed to guarantee high performance in all conditions of use and environment.

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.

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 by varying eccentric weights position.

Mechanical protection

IP 66 according to IEC/EN 60529; IP69K according to ISO 20653, DIN 40050-9.

Protection against mechanical impacts

IK 08 according to IEC/EN 62262.

Insulation class

Class F (155°C), class H (180°C) on request.

Tropicalization

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

Ambient temperature

From -20°C to +40°C. Versions for higher or lower temperatures are available on request.

Vibrator thermal protection

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

Lubrication

All vibrators are lubricated in the factory and do not require further lubrication at start-up.

Casing

In high-tensile aluminium alloy up to size 70, in spheroidal cast iron for larger sizes.

Weight covers

In aluminium alloy or steel sheet, on request stainless steel weight cover in AISI 304 may be available. Split weight cover are also available, MVSI-TS series.

Painting / Surface coating

Electrostatic surface treatment based on epoxy polyester powder polymerised in oven at 200°C. Tested in salt spray for 500 hours. On request on MVSI series other surface coatings may be available.

MVSI

Compliance with the applicable European Union Directives:
2014/34/UE, 2014/35/UE, 2011/65/UE



II2D (2014/34/UE)
Ex tb IIIC T...°C Db
EN IEC 60079-0:2018
EN 60079-31:2014



Ex tb IIIC T...°C Db
IEC 60079-0:2017
IEC 60079-31:2013



Standard CAN/CSA – C22.2, N°. 100-95, Cert. n° LR 100948
Class 4211 01 - Motors and generators
UL 1004-1 – Rotating electrical machines – General requirements
Class II Div.2, Groups FG (T3B))



Regulations UK SI 2016 No.1101 and 1107 (amend. by UK SI 2019 No.696)
Ex tb IIIC T...°C Db
EN IEC 60079-0:2018
EN 60079-31:2014



Compliance with GB/T 3836.1-2021, GB/T 3836.31-2021
Ex tb IIIC T.....°C Db



Eurasian Customs Union: TR CU 010/2011, TR CU 012/2011
TR CU 010/2011 - N° EA3C N RU Д-IT.HX37.B.10628/20
TR CU 012/2011 - N° EA3C RU C-IT.HB07.B.00614/22



KOSHA Korea
Certificate n° 11-AVG BO-0359
Ex td A21 IP66



MVSI-C

Version MVSI-C
Class I Div.2, Groups ABCD
Standard CAN/CSA – C22.2



MVSI-F

Version MVSI-F
Class II Div.1, Groups EFG
Standard CAN/CSA – C22.2, UL 1004-1



MVSI-S SERIES
Stainless steel weight covers



MVSI-SI SERIES
STEEL IT polyurethane resin coating



MVSI-BR SERIES
Ball burnishing treatment

For further details please contact sales offices at Italtibras.
We recommend consulting the use and maintenance manual (technical guide).
The technical data and models listed in this catalogue are not binding.
Italtibras reserves the right to modify them without prior notice.

Three-phase

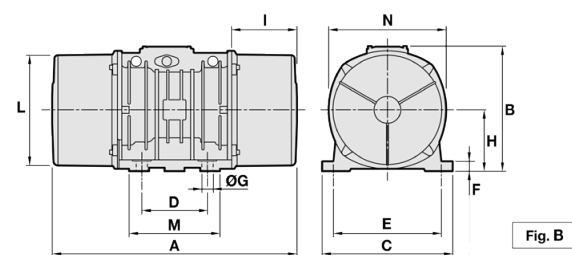


Sin

Ia/I_n = ratio between start-up current and maximum current. ** Slot. °Running capacitor / °Additional capacitor only for start-up.

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

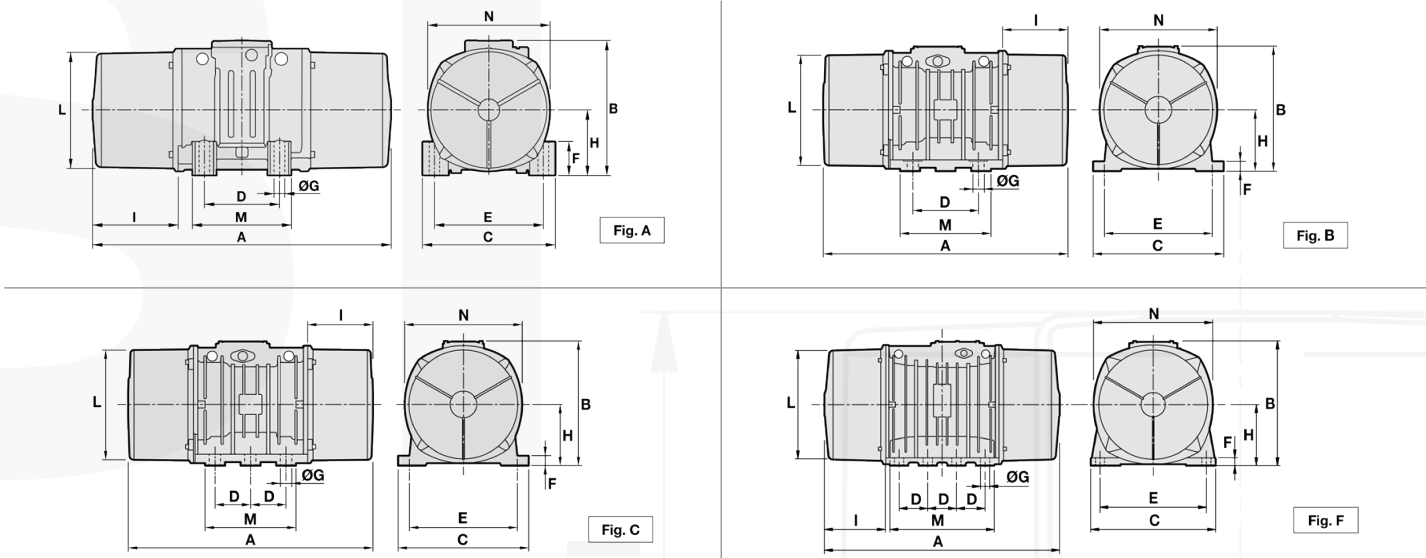
Three-phase

**NEW!**

Ia/I_n = ratio between start-up current and maximum current. ** Slot. °Running capacitor / *Additional capacitor only for start-up

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

MVSI
6 POLES - 1000/1200 rpm

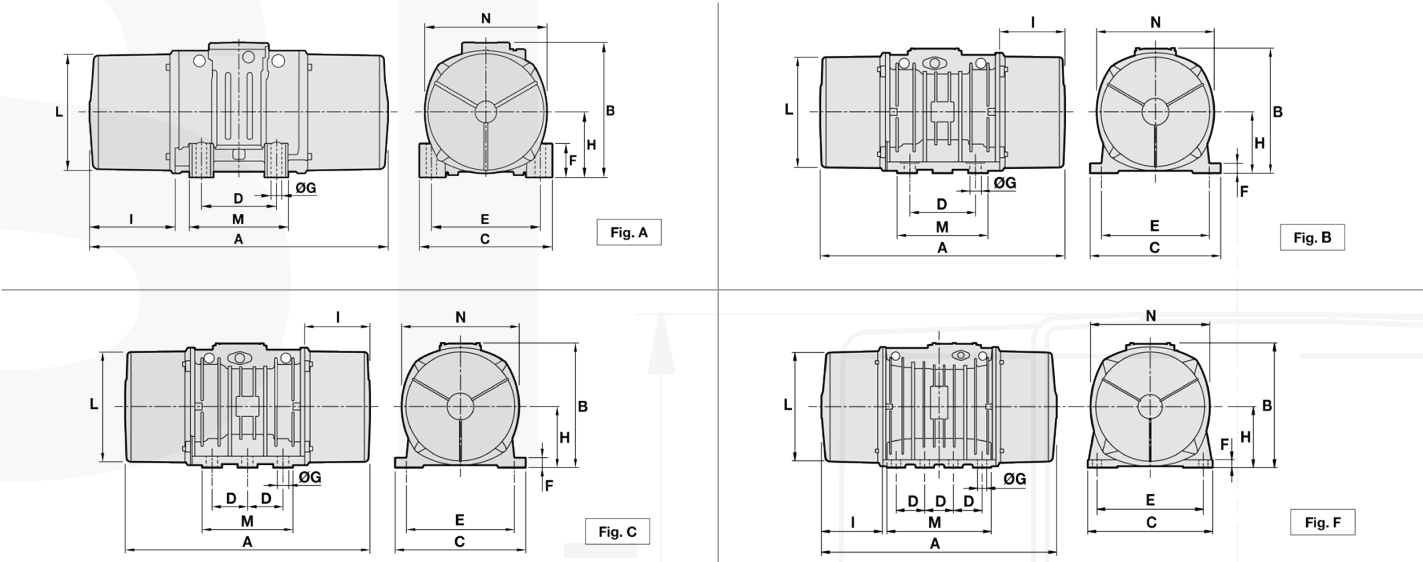


DESCRIPTION					MECHANICAL SPECIFICATIONS								ELECTRICAL SPECIFICATIONS								DIMENSIONAL SPECIFICATIONS (mm)															Cable entry thread
Code	Type	Size	Temp. class	Static moment		Centrifugal force				Weight		Max input power		Max current		Ia/In		Type	Fig.	A	B	C	D	E	Holes					L	M	N				
				kgmm		kg	kg	kN	kg	W	W	A	A	50Hz	60Hz	ØG	N°								F	H	I									
602296	MVSI 10/40-S02	10	• 120°C	30,0	30,0	33,5	48,3	0,33	0,47	9,0	9,0	120	135	0,30	0,30	1,90	2,07	MVSI 10/40-S02	A	255	171	152	90	125	13	4	28	73,0	54,0	127	128	141	M20X1,5			
602297	MVSI 10/100-S02	10	• 120°C	84,2	84,2	94,3	136	0,93	1,33	11,9	11,9	120	135	0,30	0,30	1,90	2,07	MVSI 10/100-S02	A	301	171	152	90	125	13	4	28	73,0	77,0	127	128	141	M20X1,5			
602298	MVSI 10/200-S02	20	• 120°C	163	163	183	264	1,80	2,59	18,1	18,1	185	205	0,50	0,50	2,72	3,10	MVSI 10/200-S02	A	344	203	167	105	140	13	4	30	82,5	93,0	145	146	160	M25X1,5			
602314	MVSI 10/310-S02	30	• 120°C	286	209	321	338	3,15	3,32	25,7	24,0	350	380	0,72	0,68	2,63	2,79	MVSI 10/310-S02	A	394	211	205	120	170	17	4	45	93,5	106	170	174	182	M25X1,5			
602241	MVSI 10/400-S02 #	30	• 120°C	357	357	400	576	3,93	5,65	29,0	29,0	350	380	0,72	0,68	2,63	2,79	MVSI 10/400-S02	A	396	211	205	120	170	17	4	45	93,5	107	170	174	182	M25X1,5			
602402	MVSI 10/550-S02	35	• 120°C	457	457	512	737	5,02	7,23	32,6	32,6	350	380	0,75	0,68	2,53	3,68	MVSI 10/550-S02	A	435	224	205	120	170	17	4	42	104,5	117,5	187	162	203	M25X1,5			
602403	MVSI 10/650-S02	35	• -	580	457	650	737	6,37	7,23	35,5	32,6	350	380	0,95	0,88	3,16	3,86	MVSI 10/650-S02	A	480(50Hz) 435(60Hz)	224	205	120	170	17	4	42	104,5	140(50Hz) 117,5(60Hz)	187	162	203	M25X1,5			
602380	MVSI 10/810-S08	40	• 135°C	723	561	809	905	7,94	8,88	44,0	40,0	680	760	1,40	1,35	2,79	3,33	MVSI 10/810-S08	A	500(50Hz) 448(60Hz)	244	230	140	190	17	4	45	116	134(50Hz) 108(60Hz)	207	190	225	M25X1,5			
602381	MVSI 10/1110-S08	50	• 135°C	1012	715	1132	1151	11,1	11,3	54,0	48,8	750	750	1,65	1,50	3,33	4,13	MVSI 10/1110-S08	A	574	244	230	140	190	17	4	45	116	171	207	190	225	M25X1,5			
602382	MVSI 10/1400-S08	50	• 135°C	1274	921	1424	1483	14,0	14,5	63,0	55,5	950	1000	1,80	1,70	3,05	3,65	MVSI 10/1400-S08	A	620(50Hz) 574(60Hz)	244	230	140	190	17	4	45	116	194(50Hz) 171(60Hz)	207	190	225	M25X1,5			
602406	MVSI 10/1610-S08	60	• 135°C	1464	962	1638	1549	16,1	15,2	80,0	70,0	1100	1300	2,20	2,20	4,21	4,05	MVSI 10/1610-S08	A	617(50Hz) 537(60Hz)	272	275	155	225	22	4	70	130	177(50Hz) 137(60Hz)	238	210	253	M25X1,5			
602407	MVSI 10/2100-S08	60	• 135°C	1927	1318	2154	2102	21,1	20,6	92,0	82,0	1500	1700	3,00	2,75	3,42	4,00	MVSI 10/2100-S08	A	663(50Hz) 617(60Hz)	272	275	155	225	22	4	70	130	200(50Hz) 177(60Hz)	238	210	253	M25X1,5			
602167	MVSI 10/2610-S02	70	• 135°C	2326	1720	2601	2747	25,5	26,9	106	97,0	1960	2100	4,10	3,75	5,35	5,60	MVSI 10/2610-S02	B	666	321	315	155	255	23,5	4	27	157	178	277	271	295	M25X1,5			
602230	MVSI 10/3000-S02	70	• 135°C	2690	1940	3007	3124	29,5	30,6	124	109	2200	2400	4,50	4,30	4,35	4,81	MVSI 10/3000-S02	B	712	321	315	155	255	23,5	4	27	157	201	277	271	295	M25X1,5			
602154	MVSI 10/3810-S02	80	• 135°C	3422	2380	3826	3831	37,5	37,6	188	170	2500	3000	5,10	5,00	5,91	6,00	MVSI 10/3810-S02	B	734	346	345	180	280	26	4	28	165	202	305	323	320	M32X1,5			
602204	MVSI 10/4700-S02	80	• 135°C	4206	2887	4701	4648	46,1	46,0	204	183	3200	3600	6,50	6,00	5,24	5,50	MVSI 10/4700-S02	B	796	346	345	180	280	26	4	28	165	233	305	323	320	M32X1,5			
602350	MVSI 10/5150-S02	80	• 135°C	4678	3230	5230	5200	51,3	51,0	225	200	3200	3600	6,50	6,00	5,24	5,50	MVSI 10/5150-S02	B	828	346	345	180	280	26	4	28	165	249	305	323	320	M32X1,5			
602138	MVSI 10/5200-S02	90	• 135°C	4658	3288	5208	5293	51,1	51,9	238	215	3800	4000	7,00	6,50	4,71	5,08	MVSI 10/5200-S02	B	748	364	390	200	320	28	4	28	183	194	329	346	356	M32X1,5			
602351	MVSI 10/5700-S02	90	• 135°C	5044	3478	5650	5600	55,4	54,9	240	220	3800	4000	7,00	6,50	4,71	5,08	MVSI 10/5700-S02	B	844	364	380	200	320	28	4	28	183	242	329	346	356	M32X1,5			
602091	MVSI 10/6500-S02	90	• 135°C	5838	4055	6527	6529	64,0	64,0	268	258	4300	5000	8,20	8,10	4,51	5,83	MVSI 10/6500-S02	B	844	364	380	200	320	28	4	28	183	242	329	346	356	M32X1,5			
602136	MVSI 10/6600-S02	97	• 135°C	6083	3979	6799	6405	66,7	62,8	308	280	5000	5900	10,0	9,80	5,61	5,82	MVSI 10/6600-S02	C	862	433	460	125	380	39	6	35	215	230	387	320	414	M32X1,5			
602352	MVSI 10/7000-S02	90	• 135°C	6272	4348	7013	7000	68,8	68,7	275	263	4300	5000	8,20	8,10	4,51	5,83	MVSI 10/7000-S02	B	844	364	380	200	320	28	4	28	183	242	329	346	356	M32X1,5			
602092	MVSI 10/8000-S02	95	□ 135°C	7197	4967	8046	7996	78,9	78,4	315	277	7000	7500	12,6	11,3	4,59	5,58	MVSI 10/8000-S02	B	870	392	390	200	320	28	4	30	192	255	365	351	378	M32X1,5			
602093	MVSI 10/9000-S02	95	□ 135°C	7752	5385	8666	8669	85,0	85,0	326	289	7500	8200	14,0	12,9	4,13	4,88	MVSI 10/9000-S02	B	870	392	390	200	320	28	4	30	192	255	365	351	378	M32X1,5			
602137	MVSI 10/10000-S02	97	□ 135°C	8673	5664	9695	9117	95,1	89,4	372	332	7600	8000	13,5	12,4	4,72	4,92	MVSI 10/10000-S02	C	862	433	460	125	380	39	6	35	215	230	387	325	414	M32X1,5			
602349	MVSI 10/11200-S02	97	□ 135°C	9983	6896	11160	11100	109	109	398	358	7600	8000	13,5	12,4	4,72	4,92	MVSI 10/11200-S02	C	1002	433	460	125	380	39	6	35	215	300	387	325	414	M32X1,5			
602134	MVSI 10/12000-S02	100	□ 135°C	10996	7543	12294	12141	121	119	500	445	9000	9500	16,3	15,0	5,21	5,73	MVSI 10/12000-S02	C	990	454	530	140	440	45	6	38	230	240	419	370	448	M32X1,5			
602227	MVSI 10/13000-S02	97	□ 135°C	11510	8158	12867	13130	126	129	445	395	9600	10000	17,0	16,0	4,98	5,00	MVSI 10/13000-S02	C	1002	433	460	125	380	39	6	35	215	300	387	325	414	M32X1,5			
602142	MVSI 10/15000-S02	105	□ -	12662	8700	14155	14004	139	137	643	605	10600	11270	19,0	18,0	5,88	5,78	MVSI 10/15000-S02	F	960	526	570	140	480	45	8	41	268	200	486	514	516	M32X1,5			
602143	MVSI 10/17500-S02	105	□ -	15500	10439	17327	16804	170	165	691	642	13000	13700	24,5	23,0	5,71	5,96	MVSI 10/17500-S02	F	1050	526</															

* Working moment = 2 x static moment. □ CSA certification on request, with feeding line included. # Steel weight covers.

Ia/In = ratio between start-up current and maximum current. Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

MVSI
8 POLES - 750/900 rpm



DESCRIPTION					MECHANICAL SPECIFICATIONS								ELECTRICAL SPECIFICATIONS						DIMENSIONAL SPECIFICATIONS (mm)																Cable entry thread
					Static moment		Centrifugal force				Weight		Max input power		Max current		Ia/In		Holes																
Code	Type	Size	CP	Temp. class	kgmm	kg	kN	kg	W	A	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	Type	Fig.	A	B	C	D	E	ØG	N°	F	H	I	L	M	N				
					50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	400V 50Hz	460V 60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	
602568	MVSI 075/150-S02	20	•	130°C	163	163	104	149	1,02	1,46	18,1	18,1	230	250	0,85	0,76	2,13	2,11	MVSI 075/150-S02	A	344	203	167	105	140	13	4	30	82,5	93	145	146	160	M25X1,5	
602575	MVSI 075/250-S02	30	•	130°C	286	286	181	260	1,76	2,55	26,2	26,2	350	380	1,10	1,05	2,03	2,29	MVSI 075/250-S02	A	394	211	205	120	170	17	4	45	93,5	106	170	174	182	M25X1,5	
602615	MVSI 075/400-S02	35	•	120°C	457	457	288	415	2,83	4,07	32,6	32,6	375	410	0,81	0,80	2,22	2,38	MVSI 075/400-S02	A	435	224	205	120	170	17	4	42	104,5	117,5	187	162	203	M25X1,5	
602616	MVSI 075/530-S02	35	•	120°C	580	580	365	528	3,60	5,20	36,0	36,0	375	410	0,81	0,80	2,22	2,38	MVSI 075/530-S02	A	480	224	205	120	170	17	4	42	104,5	140	187	162	203	M25X1,5	
602609	MVSI 075/660-S08	40	•	120°C	723	723	456	656	4,47	6,44	44,0	44,0	400	450	1,20	1,20	2,38	2,58	MVSI 075/660-S08	A	500	244	230	140	190	17	4	45	116	134	207	190	225	M25X1,5	
602610	MVSI 075/910-S08	50	•	120°C	1012	1012	637	917	6,25	9,00	54,0	54,0	400	500	1,40	1,30	2,38	2,85	MVSI 075/910-S08	A	574	244	230	140	190	17	4	45	116	171	207	190	225	M25X1,5	
602618	MVSI 075/1310-S08	60	•	150°C	1464	1464	922	1327	9,04	13,0	80,0	80,0	950	1100	2,20	2,20	2,63	3,41	MVSI 075/1310-S08	A	617	272	275	155	225	22	4	70	130	177	238	210	253	M25X1,5	
602619	MVSI 075/1750-S08	60	•	135°C	1927	1927	1214	1747	11,9	17,1	92,0	92,0	1100	1300	2,60	2,60	2,78	3,04	MVSI 075/1750-S08	A	663	272	275	155	225	22	4	70	130	200	238	210	253	M25X1,5	
602891	MVSI 075/2110-S02	70	•	135°C	2326	2326	1463	2107	14,4	20,7	106	106	1500	1790	4,10	4,20	3,55	2,95	MVSI 075/2110-S02	B	666	321	315	155	255	23,5	4	27	157	178	277	271	295	M25X1,5	
NEW!	602690	MVSI 075/2500-S02	70	•	135°C	2690	2690	1692	2438	16,6	23,9	124	124	1600	1800	3,30	3,20	3,25	3,08	MVSI 075/2500-S02	B	712	321	315	155	255	23,5	4	27	157	201	277	271	295	M25X1,5
602884	MVSI 075/3110-S02	80	•	135°C	3422	3422	2152	3099	21,1	30,4	188	188	2000	2300	5,40	5,20	3,98	4,62	MVSI 075/3110-S02	B	734	346	345	180	280	26	4	28	165	202	305	323	320	M32X1,5	
602515	MVSI 075/3800-S02	80	•	135°C	4206	4206	2645	3808	25,9	37,4	204	204	2500	3000	6,00	6,00	4,00	4,20	MVSI 075/3800-S02	B	796	346	345	180	280	26	4	28	165	233	305	323	320	M32X1,5	
602862	MVSI 075/4200-S02	90	•	135°C	4658	4658	2930	4218	28,7	41,4	238	238	2800	3350	6,50	6,50	3,84	4,00	MVSI 075/4200-S02	B	748	364	380	200	320	28	4	28	183	194	329	346	356	M32X1,5	
602826	MVSI 075/5300-S02	90	•	135°C	5838	5838	3672	5287	36,0	51,9	268	268	4000	4300	8,20	7,85	3,87	5,35	MVSI 075/5300-S02	B	844	364	380	200	320	28	4	28	183	242	329	346	356	M32X1,5	
602827	MVSI 075/6500-S02	95	□	135°C	7197	7197	4526	6517	44,4	63,9	315	315	4900	5800	9,90	9,50	3,04	3,26	MVSI 075/6500-S02	B	870	392	390	200	320	28	4	30	192	255	365	351	378	M32X1,5	
602551	MVSI 075/6800-S02	97	□	135°C	7340	7340	4616	6647	45,3	65,2	328	328	5600	6000	10,5	10,0	3,12	3,30	MVSI 075/6800-S02	C	862	433	460	125	380	39	6	35	215	230	387	325	414	M32X1,5	
NEW!	602828	MVSI 075/7000-S02	95	□	135°C	7752	7752	4875	7020	47,8	68,9	326	326	4900	5800	9,90	9,50	3,04	3,26	MVSI 075/7000-S02	B	870	392	390	200	320	28	4	30	192	255	365	351	378	M32X1,5
NEW!	602684	MVSI 075/8500-S02	97	□	135°C	9285	9285	5840	8407	57,3	85,7	400	400	6800	7450	13,2	12,0	3,33	3,92	MVSI 075/8500-S02	C	1002	433	460	125	380	39	6	35	215	300	387	325	414	M32X1,5
602870	MVSI 075/10000-S02	97	□	135°C	12390	10973	7792	9937	76,4	97,5	438	419	6800	7450	13,2	12,0	3,33	3,92	MVSI 075/10000-S02	C	1002	433	460	125	380	39	6	35	215	300	387	325	414	M32X1,5	
602863	MVSI 075/12000-S02	100	□	135°C	13816	12407	8689	11235	85,2	110	540	520	7600	8300	14,0	13,5	3,72	3,78	MVSI 075/12000-S02	C	1070	454	530	140	440	45	6	38	230	280	423	370	448	M32X1,5	
602871	MVSI 075/14000-S02	105	□	-	17946	15500	11285	14036	111	138	702	680	9200	9600	21,0	19,5	4,99	5,44	MVSI 075/14000-S02	F	1040	526	570	140	480	45	8	41	268	240	486	514	516	M32X1,5	
602872	MVSI 075/17000-S02	105	□	-	21337	19064	13418	17263	132	169	755	711	10400	11140	22,0	20,0	5,50	5,90	MVSI 075/17000-S02	F	1120	526	570	140	480	45	8	41	268	280	486	514	516	M32X1,5	
602873	MVSI 075/22000-S02	110	□	-	28633	24508	18005	22192	177	218	934	894	12500	16200	26,5	28,0	5,63	4,71	MVSI 075/22000-S02	F	1150	588	610	140	520	45	8	38	297	298	542	521	582	M32X1,5	
602535	MVSI 075/26000-S02	110	□	-	-	28633	-	25927	-	254	-	934	-	16200	-	28,0	-	4,71	MVSI 075/26000-S02	F	1150	588	610	140	520	45	8	38	297	298	542	521	582	M32X1,5	
602589	MVSI 075/30000-S02	120	□	-	47465	33440	29845	30280	293	297	1400	1280	23500	22700	43,0	37,6	5,60	6,50	MVSI 075/30000-S02	F	1325	649	700	140	600	45	8	45	320	370	600	510	660	M32X1,5	

* Working moment = 2 x static moment. □ CSA certification on request, with feeding line included.

Ia/In = ratio between start-up current and maximum current. Several sizes are available with different mounting bolt patterns. Please contact sales office at Italvibras.

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