MVSS

Technical features

Power supply
Three-phase voltage from 24V to 690V, 50Hz or 60Hz or single-phase 100-130V 60Hz and 200-240V, 50Hz; suitable for use with an inverter from 20Hz to the base frequency with constant torque load profile.

Polarity
2, 4, 6 and 8 poles.

Conformity with European Directives
Low Voltage 2006/95/EC.

Reference Regulations
EN 60034-1.

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 4300 Kgf. (42.4 KN), with centrifugal force adjustable from 0 to 100%.

Mechanical protection
IP 66 according to IEC 529, EN 60529.

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

Tropicalization
Standard on all vibrators, with vacuum encapsulation up to size 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 (DIN 44081-44082) on 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, with terminal board cover in stainless steel AISI 316L. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

Electric motor
Three-phase and single-phase asynchronous type. Designed for maximum starting torques and torque curves specific to 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 stainless steel AISI 316L, with especially studied design to reduce deposits of dusts and liquids.

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
The lower and upper bearings have been studied to support the relative load and therefore they have a particular geometry, especially designed and made for Italvibras.

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 stainless steel AISI 304 with thickness measuring 1.2 to 1.5mm, to unite mechanical resistance to the guaranteed protection of stainless steel.

Surface treatment
Electro polishing of the surface to obtain a smooth, bright, uniform surface.

External screws
In stainless steel AISI 304.

Other features
Identification plate in AISI 316L stainless steel.

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MVSS

2 poles - 3000/3600 rpm

	Description				Mechanical specifications								Electrical specifications					
					Static moment* kgmm		Centrifugal force kg		Centrifugal force kN		Weight kg		Max input power W		Max. current A 400 V 50 Hz	Max. current A 460 V 60 Hz	I_A/I_N	
	Code	Type	SIZE		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	600328	**MVSS 3/100-S02**	00	•	12.0	12.0	**121**	**174**	**1.19**	**1.71**	7.80	7.80	180	180	0.35	0.30	2.68	3.00
	600329	**MVSS 3/200-S02**	01	•	21.0	15.0	**211**	**218**	**2.07**	**2.14**	8.20	8.00	180	180	0.35	0.30	2.68	3.00
	600330	**MVSS 3/300-S02**	10	•	30.1	20.4	**304**	**297**	**2.98**	**2.91**	12.5	12.0	260	270	0.60	0.50	3.47	4.20
	600331	**MVSS 3/500-S02**	20	•	49.9	32.4	**503**	**471**	**4.93**	**4.62**	18.5	17.5	450	500	0.80	0.75	4.21	4.80
	600515	**MVSS 3/800-S08**	30	•	78.0	52.0	**785**	**754**	**7.70**	**7.40**	25.0	24.0	650	685	1.10	1.00	3.83	6.00
	600333	**MVSS 3/1100-S02**	35	•	110	73.0	**1105**	**1061**	**10.8**	**10.4**	30.0	29.0	1000	1200	1.75	1.75	3.63	4.00
	600334	**MVSS 3/1510-S02**	40	•	153	102	**1545**	**1483**	**15.2**	**14.5**	39.6	38.0	1400	1450	2.30	2.00	4.95	6.12
	600335	**MVSS 3/2010-S02**	50	•	205	128	**2059**	**1853**	**20.2**	**18.2**	48.7	46.3	2200	2200	3.50	3.00	4.62	6.00
															220 V 50 Hz	115 V 60 Hz		
single-phase	600328	**MVSS 3/100-S02**	00	•	12.0	12.0	**121**	**174**	**1.19**	**1.71**	7.80	7.80	165	165	0.75	1.52	1.67	2.24
	600329	**MVSS 3/200-S02**	01	•	21.0	15.0	**211**	**218**	**2.07**	**2.14**	8.20	8.00	165	165	0.75	1.52	1.67	2.24
	600330	**MVSS 3/300-S02**	10	•	30.1	20.4	**304**	**297**	**2.98**	**2.91**	12.5	12.0	280	280	1.25	2.40	2.48	3.52
	600331	**MVSS 3/500-S02**	20	•	49.9	32.4	**503**	**471**	**4.93**	**4.62**	18.5	17.5	500	500	2.30	4.50	3.35	4.22
	600515	**MVSS 3/800-S08**	30	•	78.0	52.0	**785**	**754**	**7.70**	**7.40**	25.0	24.0	700	750	3.25	7.00	4.00	4.14

* Working moment = 2 x static moment. I_A/I_N = ratio between start-up current and maximum current.

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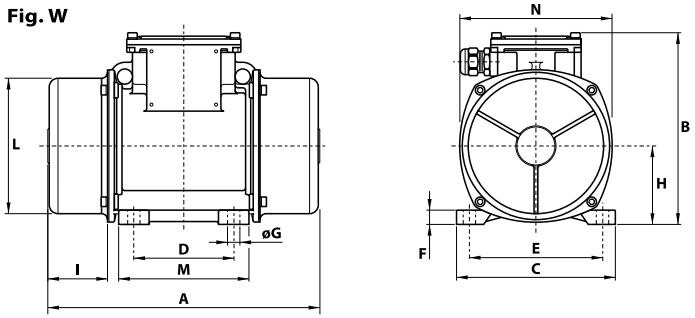
MVSS

2 poles - 3000/3600 rpm

	Type	Dimensional specifications (mm)																Cable entry thread
		Fig.	A	B	C	D	E	Holes øG	Holes N°	F	H	I	L	M	N	Capacitor (µF) 220 V 50 Hz	Capacitor (µF) 115 V 60 Hz	
three-phase	MVSS 3/100-S02	W	209	151	125	62-74**	106	9	4	10	61	45	100	102	117	-	-	M20x1.5
	MVSS 3/200-S02	W	225	151	125	62-74**	106	9	4	10	61	53	100	102	117	-	-	M20x1.5
	MVSS 3/300-S02	W	255	176	152	90	125	13	4	12	73	54	124	122	141	-	-	M20x1.5
	MVSS 3/500-S02	W	284	200	167	105	140	13	4	15	82.5	63	143	137	160	-	-	M25x1.5
	MVSS 3/800-S08	W	308	205	205	120	170	17	4	17	93.5	63	168	160	182	-	-	M25x1.5
	MVSS 3/1100-S02	W	354	232	205	120	170	17	4	20	104.5	77	181	162	203	-	-	M25x1.5
	MVSS 3/1510-S02	W	438	245	230	140	190	17	4	25	116	103	201	180	225	-	-	M25x1.5
	MVSS 3/2010-S02	W	438	245	230	140	190	17	4	25	116	103	201	180	225	-	-	M25x1.5
single-phase	MVSS 3/100-S02	W	209	151	125	62-74**	106	9	4	10	61	45	100	102	117	10	28	M20x1.5
	MVSS 3/200-S02	W	255	151	125	62-74**	106	9	4	10	61	53	100	102	117	10	28	M20x1.5
	MVSS 3/300-S02	W	255	176	152	90	125	13	4	12	73	54	124	122	141	16	25	M20x1.5
	MVSS 3/500-S02	W	284	200	167	105	140	13	4	15	82.5	63	143	137	160	12.5	50	M25x1.5
	MVSS 3/800-S08	W	308	205	205	120	170	17	4	17	93.5	63	168	160	182	25	90	M25x1.5

** Slot.

Fig. W



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MVSS

4 poles - 1500/1800 rpm

	Description				Mechanical specifications								Electrical specifications							
					Static moment* kgmm		Centrifugal force kg		Centrifugal force kN		Weight kg		Max input power W		Max. current A 400 V 50 Hz	Max. current A 460 V 60 Hz	I_A/I_N			
	Code	Type	SIZE		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	601342	**MVSS 15/35-S02**	00	•	12.0	12.0	**30.2**	**43.5**	**0.30**	**0.43**	7.80	7.80	85	95	0.21	0.20	1.78	1.95		
	601343	**MVSS 15/80-S02**	01	•	31.0	21.0	**77.9**	**76.1**	**0.76**	**0.75**	9.00	8.70	85	95	0.21	0.20	1.78	1.95		
	601365	**MVSS 15/100-S02**	01	•	38.9	31.0	**97.9**	**112**	**0.96**	**1.10**	9.40	9.00	85	95	0.21	0.20	1.78	1.95		
	601344	**MVSS 15/200-S02**	10	•	84.2	58.8	**213**	**214**	**2.09**	**2.10**	15.8	15.0	170	170	0.41	0.40	2.34	2.75		
	601345	**MVSS 15/400-S02**	20	•	163	113	**412**	**411**	**4.04**	**4.03**	22.5	21.7	300	350	0.60	0.60	3.33	3.50		
	601346	**MVSS 15/550-S02**	20	•	219	163	**552**	**592**	**5.42**	**5.81**	23.9	22.5	300	350	0.60	0.60	3.33	3.50		
	601526	**MVSS 15/700-S08**	30	•	286	209	**720**	**760**	**7.06**	**7.46**	32.0	30.7	525	665	0.92	0.98	3.48	3.43		
	601348	**MVSS 15/1100-S02**	35	•	415	271	**1045**	**982**	**10.3**	**9.63**	42.0	37.5	550	680	0.95	0.95	4.45	4.89		
	601349	**MVSS 15/1410-S02**	40	•	561	400	**1413**	**1449**	**13.9**	**14.2**	53.0	50.0	900	1050	1.45	1.50	4.10	4.20		
	601350	**MVSS 15/1710-S02**	50	•	715	485	**1798**	**1757**	**17.6**	**17.2**	58.5	54.5	1100	1200	2.00	1.90	4.29	4.89		
	601351	**MVSS 15/2000-S02**	50	•	817	561	**2054**	**2033**	**20.1**	**19.9**	70.0	68.0	1350	1450	2.50	2.30	4.30	4.90		
	601352	**MVSS 15/2410-S02**	60	•	962	674	**2420**	**2444**	**23.7**	**24.0**	82.0	76.0	1600	1700	3.20	3.00	6.09	7.23		
	601353	**MVSS 15/3000-S02**	60	•	1235	858	**3106**	**3107**	**30.5**	**30.5**	92.0	89.0	1900	2000	3.80	3.50	6.50	7.50		
	601354	**MVSS 15/3810-S02**	70	•	1526	1034	**3840**	**3744**	**37.7**	**36.7**	115	110	2200	2500	3.90	3.90	7.11	6.92		
	601363	**MVSS 15/4300-S02**	70	•	1720	1173	**4326**	**4250**	**42.4**	**41.7**	122	117	2500	2800	4.80	4.65	5.90	7.10		
															220 V 50 Hz	115 V 60 Hz				
single-phase	601342	**MVSS 15/35-S02**	00	•	12.0	12.0	**30.2**	**43.5**	**0.30**	**0.43**	7.80	7.80	90	100	0.43	1.00	1.20	1.30		
	601343	**MVSS 15/80-S02**	01	•	31.0	21.0	**77.9**	**76.1**	**0.76**	**0.75**	9.00	8.70	90	100	0.43	1.00	1.20	1.30		
	601365	**MVSS 15/100-S02**	01	•	38.9	31.0	**97.9**	**112**	**0.96**	**1.10**	9.40	9.00	90	100	0.43	1.00	1.20	1.30		
	601344	**MVSS 15/200-S02**	10	•	84.2	58.8	**213**	**214**	**2.09**	**2.10**	15.8	15.0	210	230	1.00	2.00	1.50	1.85		
	601345	**MVSS 15/400-S02**	20	•	163	113	**412**	**411**	**4.04**	**4.03**	22.5	21.7	240	320	1.20	2.80	2.50	2.21		
	601346	**MVSS 15/550-S02**	20	•	219	163	**552**	**592**	**5.42**	**5.81**	23.9	22.5	240	320	1.20	2.80	2.50	2.21		
	601526	**MVSS 15/700-S08**	30	•	286	209	**720**	**760**	**7.06**	**7.46**	25.0	23.0	450	550	2.15	5.15	5.44	3.63		

* Working moment = 2 x static moment. I_A/I_N = ratio between start-up current and maximum current.

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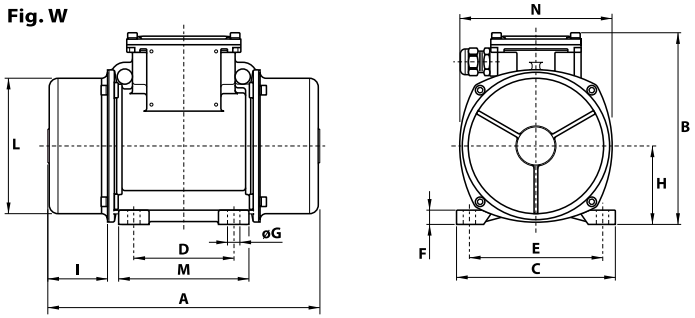
MVSS

4 poles - 1500/1800 rpm

	Type	Dimensional specifications (mm)														Capacitor (µF)		Cable entry thread
		Fig.	A	B	C	D	E	Holes øG	Holes N°	F	H	I	L	M	N	220 V 50 Hz	115 V 60 Hz	
three-phase	MVSS 15/35-S02	W	209	151	125	62-74**	106	9	4	10	61	45	100	102	117	-	-	M20x1.5
	MVSS 15/80-S02	W	225	151	125	62-74**	106	9	4	10	61	53	100	102	117	-	-	M20x1.5
	MVSS 15/100-S02	W	241 (50Hz) 225 (60Hz)	151	125	62-74**	106	9	4	10	61	61 (50Hz) 53 (60Hz)	100	102	117	-	-	M20x1.5
	MVSS 15/200-S02	W	295	176	152	90	125	13	4	12	73	74	124	122	141	-	-	M20x1.5
	MVSS 15/400-S02	W	340	200	167	105	140	13	4	15	82.5	91	143	137	160	-	-	M25x1.5
	MVSS 15/550-S02	W	380	200	167	105	140	13	4	15	82.5	111	143	137	160	-	-	M25x1.5
	MVSS 15/700-S08	W	378	205	205	120	170	17	4	17	93.5	98	168	160	182	-	-	M25x1.5
	MVSS 15/1100-S02	W	434	232	205	120	170	17	4	20	104.5	117	181	162	203	-	-	M25x1.5
	MVSS 15/1410-S02	W	442	245	230	140	190	17	4	25	116	105	201	180	225	-	-	M25x1.5
	MVSS 15/1710-S02	W	490	245	230	140	190	17	4	25	116	129	201	180	225	-	-	M25x1.5
	MVSS 15/2000-S02	W	560	245	230	140	190	17	4	25	116	164	201	180	225	-	-	M25x1.5
	MVSS 15/2410-S02	W	525	285	275	155	225	22	4	30	135	131	231	205	253	-	-	M25x1.5
	MVSS 15/3000-S02	W	601	285	275	155	225	22	4	30	135	169	231	205	253	-	-	M25x1.5
	MVSS 15/3810-S02	W	589	323	310	155	255	23.5	4	35	155	139.5	269	215	295	-	-	M25x1.5
	MVSS 15/4300-S02	W	589	323	310	155	255	23.5	4	35	155	178	269	215	295	-	-	M25x1.5
single-phase	MVSS 15/35-S02	W	209	151	125	62-74**	106	9	4	10	61	45	100	102	117	3.15	25	M20x1.5
	MVSS 15/80-S02	W	225	151	125	62-74**	106	9	4	10	61	53	100	102	117	3.15	25	M20x1.5
	MVSS 15/100-S02	W	241 (50Hz) 225 (60Hz)	151	125	62-74**	106	9	4	10	61	61 (50Hz) 53 (60Hz)	100	102	117	3.15	25	M20x1.5
	MVSS 15/200-S02	W	295	176	152	90	125	13	4	12	73	74	124	122	141	5	25	M20x1.5
	MVSS 15/400-S02	W	340	200	167	105	140	13	4	15	82.5	91	143	137	160	32/12 O	35	M25x1.5
	MVSS 15/550-S02	W	380	200	167	105	140	13	4	15	82.5	111	143	137	160	32/12 O	40/35 O	M25x1.5
	MVSS 15/700-S08	W	378	205	205	120	170	17	4	17	93.5	98	168	160	182	96/16 O	160/40 O	M25x1.5

** Slot. O Start-up capacitor / *Running capacitor.*

Fig. W



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MVSS

6 poles - 1000/1200 rpm

	Description				Mechanical specifications								Electrical specifications							
	Code	Type	SIZE		Static moment* kgmm		Centrifugal force kg		Centrifugal force kN		Weight kg		Max input power W		Max. current A 400 V 50 Hz	Max. current A 460 V 60 Hz	I_A/I_N			
					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	602283	**MVSS 10/40-S02**	10	•	30.1	30.1	**35**	**49**	**0.33**	**0.47**	12.5	12.5	120	135	0.30	0.30	1.90	2.07		
	602284	**MVSS 10/100-S02**	10	•	84.2	84.2	**94.3**	**136**	**0.93**	**1.33**	15.8	15.8	120	135	0.30	0.30	1.90	2.07		
	602285	**MVSS 10/200-S02**	20	•	163	163	**183**	**264**	**1.80**	**2.59**	22.5	22.5	185	205	0.50	0.50	2.72	3.10		
	602405	**MVSS 10/310-S08**	30	•	286	209	**321**	**338**	**3.15**	**3.32**	32.0	30.7	350	380	0.72	0.68	2.63	2.79		
	602287	**MVSS 10/550-S02**	35	•	457	457	**512**	**737**	**5.02**	**7.23**	43.5	43.5	350	380	0.75	0.68	2.53	3.68		
	602408	**MVSS 10/810-S08**	40	•	723	561	**809**	**905**	**7.84**	**8.88**	54.0	52.6	680	760	1.40	1.35	2.79	3.33		
	602409	**MVSS 10/1110-S08**	50	•	1012	715	**1132**	**1151**	**11.1**	**11.3**	67.0	59.5	750	750	1.65	1.50	3.33	4.13		
	602410	**MVSS 10/1400-S08**	50	•	1274	904	**1424**	**1485**	**14.0**	**14.5**	78.0	71.0	950	1000	1.80	1.70	3.05	3.65		
	602411	**MVSS 10/1610-S08**	60	•	1464	962	**1638**	**1549**	**16.1**	**15.2**	94.0	83.0	1100	1300	2.20	2.20	4.21	4.05		
	602412	**MVSS 10/2100-S08**	60	•	1927	1318	**2154**	**2102**	**21.1**	**20.6**	105	93.0	1500	1700	3.00	2.90	4.50	4.20		
	602293	**MVSS 10/2610-S02**	70	•	2326	1706	**2601**	**2747**	**25.5**	**26.9**	130	116	1960	2100	4.10	3.75	5.35	5.60		
	602294	**MVSS 10/3000-S02**	70	•	2690	1940	**3007**	**3124**	**29.5**	**30.6**	145	130	2200	2400	4.50	4.30	4.35	4.81		

8 poles - 750/900 rpm

	Description				Mechanical specifications								Electrical specifications							
	Code	Type	SIZE		Static moment* kgmm		Centrifugal force kg		Centrifugal force kN		Weight kg		Max input power W		Max. current A 400 V 50 Hz	Max. current A 460 V 60 Hz	I_A/I_N			
					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	602561	**MVSS 075/150-S02**	20	•	163	163	**104**	**149**	**1.02**	**1.46**	22.5	22.5	230	250	0.85	0.76	2.13	2.11		
	602617	**MVSS 075/250-S08**	30	•	286	286	**181**	**260**	**1.76**	**2.55**	32.0	32.0	350	380	1.10	1.05	2.03	2.29		
	602563	**MVSS 075/400-S02**	35	•	457	457	**288**	**415**	**2.83**	**4.07**	43.5	43.5	280	300	0.60	0.58	1.73	2.50		
	602620	**MVSS 075/660-S08**	40	•	723	723	**456**	**656**	**4.47**	**6.44**	54.0	54.0	400	450	1.20	1.20	2.38	2.58		
	602621	**MVSS 075/910-S08**	50	•	1012	1012	**637**	**917**	**6.25**	**9.00**	67.0	67.0	400	500	1.40	1.30	2.38	2.85		
	602622	**MVSS 075/1310-S08**	60	•	1464	1464	**922**	**1327**	**9.04**	**13.0**	94.0	94.0	950	1100	2.20	2.20	2.63	3.41		
	602567	**MVSS 075/2110-S02**	70	•	2326	2326	**1463**	**2107**	**14.4**	**20.7**	130	130	1500	1790	4.10	4.20	3.55	2.95		

* Working moment = 2 x static moment. I_A/I_N = ratio between start-up current and maximum current.

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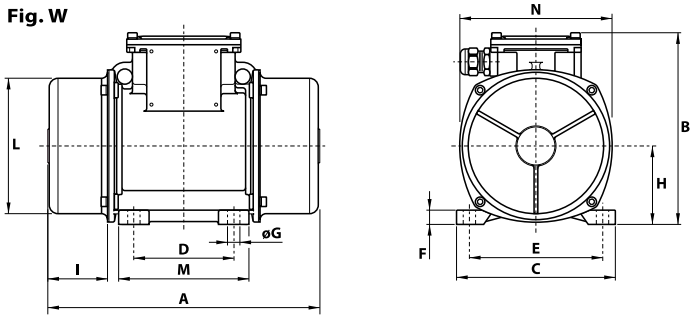
MVSS

6 poles - 1000/1200 rpm

	Type	Dimensional specifications (mm)														
							Holes									
		Fig.	A	B	C	D	E	øG	N°	F	H	I	L	M	N	Cable entry thread
three-phase	MVSS 10/40-S02	W	255	176	152	90	125	13	4	12	73	54	124	122	141	M20x1.5
	MVSS 10/100-S02	W	295	176	152	90	125	13	4	12	73	74	124	122	141	M20x1.5
	MVSS 10/200-S02	W	340	200	167	105	140	13	4	15	82.5	91	143	137	160	M25x1.5
	MVSS 10/310-S08	W	378	205	205	120	170	17	4	17	93.5	98	168	160	182	M25x1.5
	MVSS 10/550-S02	W	434	232	205	120	170	17	4	20	104.5	117	181	162	203	M25x1.5
	MVSS 10/810-S08	W	490 (50Hz) 442 (60Hz)	245	230	140	190	17	4	25	116	129 (50Hz) 105 (60Hz)	201	180	225	M25x1.5
	MVSS 10/1110-S08	W	560	245	230	140	190	17	4	25	116	164	201	180	225	M25x1.5
	MVSS 10/1400-S08	W	560	245	230	140	190	17	4	25	116	164	201	180	225	M25x1.5
	MVSS 10/1610-S08	W	601 (50Hz) 525 (60Hz)	285	275	155	225	22	4	30	135	169 (50Hz) 131 (60Hz)	231	205	253	M25x1.5
	MVSS 10/2100-S08	W	601	285	275	155	225	22	4	30	135	169	231	205	253	M25x1.5
	MVSS 10/2610-S02	W	657 (50Hz) 589 (60Hz)	323	310	155	255	23.5	4	35	155	173.5 (50Hz) 139.5 (60Hz)	269	215	295	M25x1.5
	MVSS 10/3000-S02	W	705	323	310	155	255	23.5	4	35	155	197.5	269	215	295	M25x1.5

Fig. W



8 poles - 750/900 rpm

	Type	Dimensional specifications (mm)														
							Holes									
		Fig.	A	B	C	D	E	øG	N°	F	H	I	L	M	N	Cable entry thread
three-phase	MVSS 075/150-S02	W	340	200	167	105	140	13	4	15	82.5	91	143	137	160	M25x1.5
	MVSS 075/250-S08	W	378	205	205	120	170	17	4	17	93.5	98	168	160	182	M25x1.5
	MVSS 075/400-S02	W	434	232	205	120	170	17	4	20	104.5	117	181	162	203	M25x1.5
	MVSS 075/660-S08	W	490	245	230	140	190	17	4	25	116	129	201	180	225	M25x1.5
	MVSS 075/910-S08	W	560	245	230	140	190	17	4	25	116	164	201	180	225	M25x1.5
	MVSS 075/1310-S08	W	601	285	275	155	225	22	4	30	135	169	231	205	253	M25x1.5
	MVSS 075/2110-S02	W	657	323	310	155	255	23.5	4	35	155	173.5	269	215	295	M25x1.5

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