

## Technical features

### Power supply

Three-phase voltage from 24V to 690V at the various frequencies, depending on the type and series. It is advisable to use the Vibravar, Multivar or the CFV variable high frequency power suppliers to power the electric vibrators.

### Conformity to the European Directives

Low Voltage 2006/95/EC.

### Reference standards

EN 60034-1.

### Operation

Continuous service (S1) at the maximum declared centrifugal force and electric power values.

### Centrifugal force

Range extended up to 5300 kgf (52kN) with force output adjustable from 0 to 100%.

### Mechanical protection

IP66 according to IEC 529, EN 60529; IK08 protection against impact.

### Insulation class

Class F (155°C).

### Tropicalization

Standard on all vibrators, with vacuum encapsulation up to size AF33 and for frame size AF70, with "drop by drop" trickle system for sizes AF50 and AF68.

### Ambient temperature

To operate correctly, from -20°C to +40°C.

### Vibrator thermal protection

With PTC rated thermistor heat detectors 130°C installed as part of the standard assembly size AF70 onwards. Also on request thermistors with different temperatures and anti-condensation heaters can be assembled on the lower sizes.

### Fixing of the vibrator

In all positions and therefore without restriction. Two different types of connection are available for the ITV-VR and ITVAF series: fixed connection, where the electric vibrators are connected to the structure by bolts through fixing holes and the RS cradle connection, where the electric vibrators are connected to the structure with the standardized cradle type RS2 except for frame size AF10, for this the cradle fixing is type RS1.

### Lubrication

All the electric vibrators are correctly lubricated in our factory and need no further lubrication when used. Special grease for high-speed operation is used for frame sizes AF50, AF68 and AF70 a periodic re-lubrication is recommended by means of special grease nipples. The excess grease is discharged into the weight compartment by means of the differentiated labyrinth system.

### Terminal box

Generously sized to make the electrical connections easier. Special shaped terminals allow to fix the power supply cable.

### Electric motor

Three-phase asynchronous type.

### Casing

Specifically designed for high speed duty. In high tensile strength aluminium alloy for frame sizes AF10, AF30 and AF33. In spheroidal cast iron for sizes AF50, AF68 and AF70.

### Bearings

A special shape, exclusively designed and made for Italvibras and able to bear strong loads at high speeds.

### Motor shaft

in treated steel alloy (isothermic hardening) able to withstand high stress.

### Eccentric weights

Specially shaped lamellar type that can be easily adjusted.

### Weight covers

In aluminium alloy treated with rust inhibitor. They are perfectly dustproof, watertight and offer optimum shock resistance in all conditions of use and work environments.

### Painting

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

# ITV-VR/ITVAF



CESI KCI



	Description				Mechanical specifications				Electrical specifications			
	Code	Type	SIZE		Plage vibrat. (vibr./mn.)	Centrifugal force		Weight kg	Max input power W	Max. current A 100 Hz		I <sub>A</sub> /I <sub>N</sub>
						kg	kN			42V	400V	
<b>ITV-VR</b> fixed connection	600500	ITV-VR/1210-S08	AF33	•	0÷6000	<b>1569</b>	<b>15.4</b>	24	1200	21	2.3	4.48
	600507	ITV-VR/2010-S08	AF33	•	0÷6000	<b>2000</b>	<b>19.6</b>	27	1700	27	2.9	5.00
	600248	ITV-VR/2510	AF50	-	0÷6000	<b>2500</b>	<b>24.5</b>	41	2200	35	3.9	6.15
	600249	ITV-VR/2510-V *	AF50	-	4500÷6000	<b>2500</b>	<b>24.5</b>	41	2200	35	3.9	6.15
	600208	ITV-VR/3300 *	AF68	-	4500÷6000	<b>3300</b>	<b>32.3</b>	74	4000	-	7.2	5.10
	600514	ITV-VR/5000-S02	AF70	-	0÷4300	<b>5300</b>	<b>52.0</b>	105	5000	-	8.0	5.30
<b>ITV-VR RS</b> cradle connection	600508	ITV-VR/1210-RS-S08	AF33	•	0÷6000	<b>1569</b>	<b>15.4</b>	21	1200	21	2.3	4.48
	600509	ITV-VR/2010-RS-S08	AF33	•	0÷6000	<b>2000</b>	<b>19.6</b>	24	1700	27	2.9	5.00

• Only supplied at 250V-100Hz, ventilated type, IP44 protection.

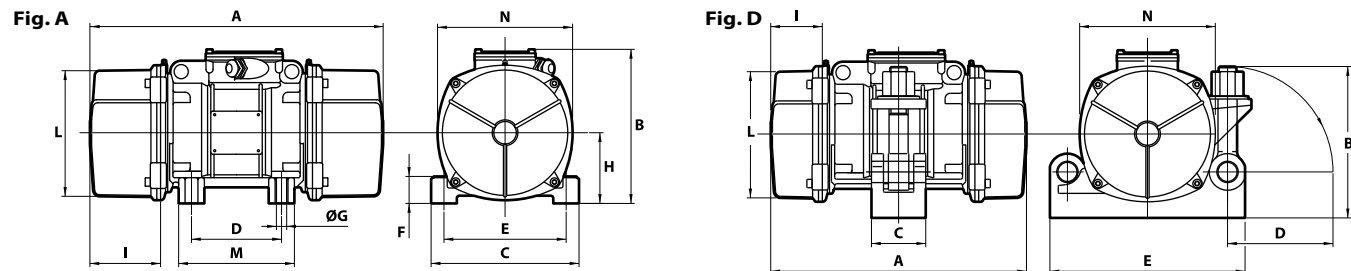
I<sub>A</sub>/I<sub>N</sub> = ratio between start-up current and maximum current.

# ITV-VR/ITVAF



Type	Dimensional specifications (mm)														
	Fig.	A	B	C	D	E	Holes		F	H	I	L	M	N	
							øG	N°							
<b>ITV-VR</b> fixed connection	ITV-VR/1210-S08	A	289	216.5	215	100	180	17	4	47	93.5	63	170	145	182
	ITV-VR/2010-S08	A	375	216.5	215	100	180	17	4	47	93.5	106	170	145	182
	ITV-VR/2510	A	430	230	230	140	190	17	4	49	104	87.5	186	180	200
	ITV-VR/2510-V *	A	465	230	230	140	190	17	4	49	104	105	240	180	248
	ITV-VR/3300 *	A	528	267	310	155	255	23.5	4	122	115	147	265	215	275
	ITV-VR/5000-S02	A	560	290	310	155	255	25	4	90	130	137	238	210	250
<b>ITV-VR RS</b> cradle connection	ITV-VR/1210-RS-S08	D	289	189	83	140	240	-	-	-	-	63	170	-	182
	ITV-VR/2010-RS-S08	D	375	189	83	140	240	-	-	-	-	106	170	-	182

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# ITV-UR/ITVAF



	Description				Mechanical specifications			Electrical specifications							
	Code	Type	SIZE	SP	Plage vibrat. (vibr./mn.)	Centrifugal force		Weight kg	Max input power W	Max. current A				I <sub>a</sub> /I <sub>n</sub>	
						kg	kN			200 Hz	150 Hz	100 Hz	250 V		
<b>ITVAF fixed connection</b>	603050	ITVAF 6/600-S02	AF10	-	6000	<b>610</b>	<b>5.98</b>	8.0	500	9.5	1.6	-	-	1.6	4.50
	603044	ITVAF 6/1000-S02-BSH	AF30	-	6000	<b>1022</b>	<b>9.70</b>	18	1000	20	3.3	-	-	3.7	6.06
	603043	ITVAF 6/1200-S02-BSH	AF30	-	6000	<b>1200</b>	<b>11.3</b>	18	1000	20	3.3	-	-	3.7	6.06
	603053	ITVAF 6/1220-S08	AF33	-	6000	<b>1095</b>	<b>10.7</b>	23	1200	23	3.85	-	-	3.9	6.04
	603054	ITVAF 6/1510-S08	AF33	-	6000	<b>1484</b>	<b>14.6</b>	25	1700	29	4.9	-	-	4.8	7.10
	603037	ITVAF 6/2010-S90 ◦	AF50	-	6000	<b>1978</b>	<b>19.4</b>	40	2000	35	5.9	-	-	5.9	8.00
	603010	ITVAF 6/3300 ◦	AF68	-	6000	<b>2800</b>	<b>27.5</b>	74	4000	-	-	-	-	11	5.10
	604041	ITVAF 9/1110-S08	AF33	-	9000	<b>1230</b>	<b>12</b>	22	1150	-	-	18	-	-	8.52
	604042	ITVAF 9/1510-S08	AF33	-	9000	<b>1484</b>	<b>14.6</b>	24	1600	-	-	24	4.0	-	10.4
<b>ITVAF RS cradle connection</b>	603049	ITVAF 6/600-RS1-S02	AF10	-	6000	<b>610</b>	<b>5.98</b>	8.0	500	9.5	1.6	-	-	1.6	4.50
	603047	ITVAF 6/1000-RS-S02-BSH	AF30	-	6000	<b>1022</b>	<b>9.70</b>	18	1000	20	3.3	-	-	3.7	6.06
	603048	ITVAF 6/1200-RS-S02-BSH	AF30	-	6000	<b>1200</b>	<b>11.3</b>	18	1000	20	3.3	-	-	3.7	6.06
	603055	ITVAF 6/1220-RS-S08	AF33	-	6000	<b>1095</b>	<b>10.7</b>	21	1200	23	3.85	-	-	3.9	6.04
	603056	ITVAF 6/1510-RS-S08	AF33	-	6000	<b>1484</b>	<b>14.6</b>	23	1700	29	4.9	-	-	4.8	7.10
	604043	ITVAF 9/1110-RS-S08	AF33	-	9000	<b>1230</b>	<b>12</b>	20	1150	-	-	18	-	-	8.52
	604044	ITVAF 9/1510-RS-S08	AF33	-	9000	<b>1484</b>	<b>14.6</b>	22	1600	-	-	24	4.0	-	10.4

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# ITV-UR/ITVAF



	Type	Dimensional specifications (mm)													
		Fig.	A	B	C	D	E	Holes		F	H	I	L	M	N
								øG	N°						
<b>ITVAF</b> fixed connection	ITVAF 6/600-S02	A	255	179	152	90	125	13	4	28	73	54	124	128	141
	ITVAF 6/1000-S02-BSH	AH	310	186	190	90	154	13	4	100	73	54	124	125	141
	ITVAF 6/1200-S02-BSH	AH	310	186	190	90	154	13	4	100	73	54	124	125	141
	ITVAF 6/1220-S08	A	289	216.5	215	100	180	17	4	47	93.5	63	170	145	182
	ITVAF 6/1510-S08	A	375	216.5	215	100	180	17	4	47	93.5	106	170	145	182
	ITVAF 6/2010-S90 ◦	A	430	230	230	140	190	17	4	49	104	87.5	186	180	200
	ITVAF 6/3300 ◦	A	528	267	310	155	255	23.5	4	122	115	147	265	215	275
	ITVAF 9/1110-S08	A	289	216.5	215	100	180	17	4	47	93.5	63	170	145	182
	ITVAF 9/1510-S08	A	375	216.5	215	100	180	17	4	47	93.5	106	170	145	182
<b>ITVAF RS</b> cradle connection	ITVAF 6/600-RS1-S02	D	255	140	97	97	180	-	-	-	-	54	124	-	141
	ITVAF 6/1000-RS-S02-BSH	D	310	189	83	140	240	-	-	-	-	54	124	-	141
	ITVAF 6/1200-RS-S02-BSH	D	310	189	83	140	240	-	-	-	-	54	124	-	141
	ITVAF 6/1220-RS-S08	D	289	189	83	140	240	-	-	-	-	63	170	-	182
	ITVAF 6/1510-RS-S08	D	375	189	83	140	240	-	-	-	-	106	170	-	182
	ITVAF 9/1110-RS-S08	D	289	189	83	140	240	-	-	-	-	63	170	-	182
	ITVAF 9/1510-RS-S08	D	375	189	83	140	240	-	-	-	-	106	170	-	182

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