

ITV-VR/ITVAF



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.

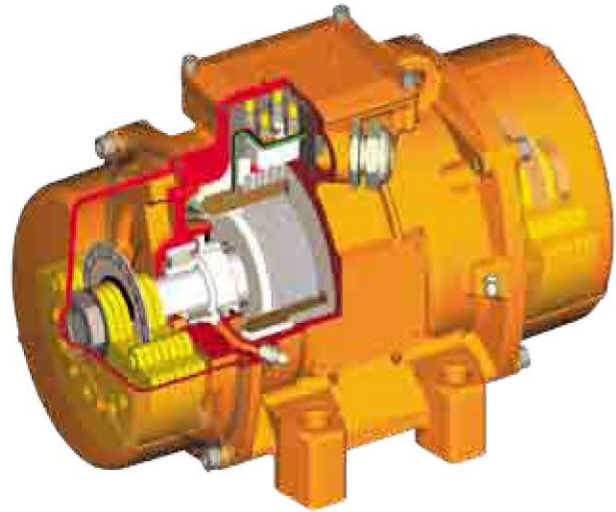
Terminal box

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

Italvibras produces 2 series of electric vibrators with frequency variation which can be applied to systems and machines in the precasting industry:

ITV-VR Series, with variable frequency;
ITVAF Series, with fixed frequency.

The ITV-VR series electric vibrators are able to provide a centrifugal force of up to 5300 Kgf (52 kN) at a frequency varying from 0 to 6.000 rpm. The ITVAF series electric vibrators with fixed vibration (6000 or 9000 rpm) provide a vibrating energy of up to 1480 Kgf (14,6 kN). Both are available with either the fixed or cradle connection.



Certifications

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.

Regulation CAN/CSA - C22.2 N. 100-95,
file n° LR100948 Class 4211 01
– Motors and generators.



Mechanical protection IP66 (EN 60529),
protection against impacts IK 08
(EN 50102)



Certificate GOST-R n° POCC IT.AH50.B13978,
standards GOST R 50615, GOST 17770,
GOST 12.2.030, GOST R 51318.14.1,
GOST R 51318.14.2, GOST R 51317.3.2,
GOST R 51317.3.3.




Comply with the applicable
European Union directives




ELECTRIC VIBRATORS SERIES ITV-VR, ITVAF

three-phase


ITV-VR Series

DESCRIPTION					MECHANICAL FEATURES			ELECTRICAL FEATURES							
Part Number	Model	Design	Frame Size		Speed Field RPM	Centrifugal Force lbs	Weight lbs	Power Output HP	Max Current A						
									42 V 100 Hz	400 V 100 Hz	42 V 200 Hz	250 V 200 Hz	42 V 150 Hz	250 V 150 Hz	250 V 100 Hz
600500	ITV-VR/3500	S08	AF33	•	0÷6000	3452	52,8	1,10	21,0	2,30	-	-	-	-	-
600507	ITV-VR/4400	S08	AF33	•	0÷6000	4400	59,4	1,80	27,0	2,90	-	-	-	-	-
600248	ITV-VR/5500	-	AF50	-	0÷6000	5500	90,2	2,40	35,0	3,90	-	-	-	-	-
600249	ITV-VR/5500-V*	-	AF50	-	4500÷6000	5500	90,2	2,40	35,0	3,90	-	-	-	-	-
600208	ITV-VR/7300*	-	AF68	-	4500÷6000	7260	163	4,00	-	7,20	-	-	-	-	-
600514	ITV-VR/36-11000	S02	AF70	-	0÷4300	11660	231	5,50	-	8,00	-	-	-	-	-


ITV-VR-RS Series

DESCRIPTION					MECHANICAL FEATURES			ELECTRICAL FEATURES							
Part Number	Model	Design	Frame Size		Speed Field RPM	Centrifugal Force lbs	Weight lbs	Power Output HP	Max Current A						
									42 V 100 Hz	400 V 100 Hz	42 V 200 Hz	250 V 200 Hz	42 V 150 Hz	250 V 150 Hz	250 V 100 Hz
600508	ITV-VR/3500-RS	S08	AF33	•	0÷6000	3452	46,2	1,10	21,0	2,30	-	-	-	-	-
600509	ITV-VR/4400-RS	S08	AF33	•	0÷6000	4400	52,8	1,80	27,0	2,90	-	-	-	-	-

ITVAF Series

DESCRIPTION					MECHANICAL FEATURES			ELECTRICAL FEATURES							
Part Number	Model	Design	Frame Size		Speed Field RPM	Centrifugal Force lbs	Weight lbs	Power Output HP	Max Current A						
									42 V 100 Hz	400 V 100 Hz	42 V 200 Hz	250 V 200 Hz	42 V 150 Hz	250 V 150 Hz	250 V 100 Hz
603050	ITVAF 6/1350	S02	AF10	-	6000	1342	17,6	0,47	-	-	9,50	1,60	-	-	1,60
603044	ITVAF 6/2250-BSH	S02	AF30	-	6000	2248	39,6	0,80	-	-	20,0	3,30	-	-	3,70
603043	ITVAF 6/2640-BSH	S02	AF30	-	6000	2640	39,6	0,80	-	-	20,0	3,30	-	-	3,70
603053	ITVAF 6/2400	S08	AF33	-	6000	2409	50,6	1,23	-	-	23,0	3,85	-	-	3,90
603054	ITVAF 6/3250	S08	AF33	-	6000	3265	55,0	1,78	-	-	29,0	4,90	-	-	4,80
603037	ITVAF 6/4400°	S90	AF50	-	6000	4352	88,0	2,28	-	-	35,0	5,90	-	-	5,90
603010	ITVAF 6/6000°	-	AF68	-	6000	6160	163	4,00	-	-	-	-	-	-	11,00
604041	ITVAF 9/2700	S08	AF33	-	6000	2706	48,4	1,21	-	-	-	-	18,0	-	-
604042	ITVAF 9/3250	S08	AF33	-	6000	3265	52,8	1,63	-	-	-	-	24,0	4,0	-

ITVAF Series

DESCRIPTION					MECHANICAL FEATURES			ELECTRICAL FEATURES							
Part Number	Model	Design	Frame Size		Speed Field RPM	Centrifugal Force lbs	Weight lbs	Power Output HP	Max Current A						
									42 V 100 Hz	400 V 100 Hz	42 V 200 Hz	250 V 200 Hz	42 V 150 Hz	250 V 150 Hz	250 V 100 Hz
603049	ITVAF 6/1350-RS1	S02	AF10	-	6000	1342	17,6	0,47	-	-	9,50	1,60	-	-	1,60
603047	ITVAF 6/2250-RS-BSH	S02	AF30	-	6000	2248	39,6	-	-	20,0	3,30	-	-	3,70	-
603048	ITVAF 6/2640-RS-BSH	S02	AF30	-	6000	2640	39,6	0,80	-	-	20,0	3,30	-	-	3,70
603055	ITVAF 6/2400-RS	S08	AF33	-	6000	2409	46,2	1,23	-	-	23,0	3,85	-	-	3,90
603056	ITVAF 6/3250-RS	S08	AF33	-	6000	3265	50,6	1,78	-	-	29,0	4,90	-	-	4,80
604043	ITVAF 9/2700-RS	S08	AF33	-	9000	2706	44,0	1,21	-	-	-	-	18,0	-	-
604044	ITVAF 9/3250-RS	S08	AF33	-	9000	3265	48,4	1,63	-	-	-	-	24,0	4,00	-

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OVERALL DIMENSIONS (inches)

Model	Design	Type	A	B	C	D	E	Foot holes		F	H	I	L	M	N
								øG	N°						
ITV-VR/3500	S08	A	11,38	8,52	8,46	3,94	7,09	0,67	4	1,85	3,68	2,48	6,69	5,71	7,17
ITV-VR/4400	S08	A	14,76	8,52	8,46	3,94	7,09	0,67	4	1,85	3,68	4,17	6,69	5,71	7,17
ITV-VR/5500	-	A	16,93	9,06	9,06	5,51	7,48	0,67	4	1,93	4,09	3,44	7,32	7,09	7,87
ITV-VR/5500-V*	-	A	18,31	9,06	9,06	5,51	7,48	0,67	4	1,93	4,09	4,13	9,45	7,09	9,76
ITV-VR/7300*	-	A	20,79	10,51	12,20	6,10	10,04	0,93	4	4,80	4,53	5,79	10,43	8,46	10,83
ITV-VR/36-11000	S02	A	22,05	11,42	12,20	6,10	10,04	0,98	4	3,54	5,12	5,39	9,37	8,27	9,84

OVERALL DIMENSIONS (inches)

Model	Design	Type	A	B	C	D	E	Foot holes		F	H	I	L	M	N
								øG	N°						
ITV-VR/3500-RS	S08	D	11,38	7,44	3,27	5,51	9,45	-	-	-	-	2,48	6,69	-	7,17
ITV-VR/4400-RS	S08	D	14,76	7,44	3,27	5,51	9,45	-	-	-	-	4,17	6,69	-	7,17

OVERALL DIMENSIONS (inches)

Model	Design	Type	A	B	C	D	E	Foot holes		F	H	I	L	M	N
								øG	N°						
ITVAF 6/1350	S02	A	10,04	7,05	5,98	3,54	4,92	0,51	4	1,10	2,87	2,13	4,88	5,04	5,55
ITVAF 6/2250-BSH	S02	AH	12,20	7,32	7,48	3,54	6,06	0,51	4	3,94	2,87	2,13	4,88	4,92	5,55
ITVAF 6/2640-BSH	S02	AH	12,20	7,32	7,48	3,54	6,06	0,51	4	3,94	2,87	2,13	4,88	4,92	5,55
ITVAF 6/2400	S08	A	11,38	8,52	8,46	3,94	7,09	0,67	4	1,85	3,68	2,48	6,69	5,71	7,17
ITVAF 6/3250	S08	A	14,76	8,52	8,46	3,94	7,09	0,67	4	1,85	3,68	4,17	6,69	5,71	7,17
ITVAF 6/4400°	S90	A	16,93	9,06	9,06	5,51	7,48	0,67	4	1,93	4,09	3,44	7,32	7,09	7,87
ITVAF 6/6000°	-	A	20,79	10,51	12,20	6,10	10,04	0,93	4	4,80	4,53	5,79	10,43	8,46	10,83
ITVAF 9/2700	S08	A	11,38	8,52	8,46	3,94	7,09	0,67	4	1,85	3,68	2,48	6,69	5,71	7,17
ITVAF 9/3250	S08	A	14,76	8,52	8,46	3,94	7,09	0,67	4	1,85	3,68	4,17	6,69	5,71	7,17

OVERALL DIMENSIONS (inches)

Model	Design	Type	A	B	C	D	E	Foot holes		F	H	I	L	M	N
								øG	N°						
ITVAF 6/1350-RS1	S02	D	10,04	5,51	3,82	3,82	7,09	-	-	-	-	2,13	4,88	-	5,55
ITVAF 6/2250-RS-BSH	S02	D	12,20	7,44	3,27	5,51	9,45	-	-	-	-	2,13	4,88	-	5,55
ITVAF 6/2640-RS-BSH	S02	D	12,20	7,44	3,27	5,51	9,45	-	-	-	-	2,13	4,88	-	5,55
ITVAF 6/2400-RS	S08	D	11,38	7,44	3,27	5,51	9,45	-	-	-	-	2,48	6,69	-	7,17
ITVAF 6/3250-RS	S08	D	14,76	7,44	3,27	5,51	9,45	-	-	-	-	4,17	6,69	-	7,17
ITVAF 9/2700-RS	S08	D	11,38	7,44	3,27	5,51	9,45	-	-	-	-	2,48	6,69	-	7,17
ITVAF 9/3250-RS	S08	D	14,76	7,44	3,27	5,51	9,45	-	-	-	-	4,17	6,69	-	7,17

