AViTEQ
Vibrationstechnik GmbH

Unbalance Motors

KEEPING BULK MATERIAL ON THE MOVE

AViTEQ Vibration Technology
WE DRIVE YOUR SUCCESS

For more than 75 years, AViTEQ Vibrationstechnik GmbH has provided oscillating conveyor solutions to almost 350,000 projects. Our extensive experience and vibrating conveyor expertise is evident with our 125 AViTEQ employees worldwide, who are always to support our international client base.

UNSHAKEABLE QUALITY

AViTEQ systems and components feature comprehensive functionalities including: conveying, sorting and dosing, screening, classifying and dewatering, compacting and loosening, cooling and heating of various bulk materials. We provide extremely varied solutions and can apply these functionalities to suit small pills and coffee beans, as well as rocks and metal pieces weighing tons.

Every bulk material has its own special requirements and AViTEQ is most likely experienced with the process, as we have designed systems and components for more than 1,000 bulk materials to date. Endurance tests performed in our technical laboratories and numerous finite element calculations ensure the highest quality of our components and systems. Experience the unshakeable quality of AViTEQ.

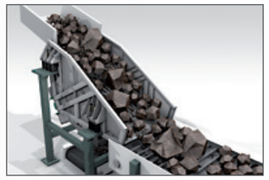
AViTEQ Worldwide

AViTEQ Product Portfolio
QUALIFIED PARTNER FOR SYSTEMS AND COMPONENTS

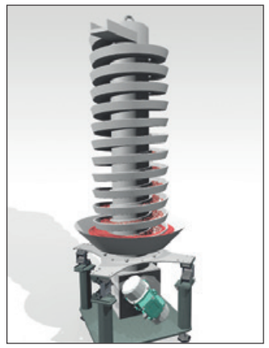
Systems

AViTEQ plans and realises vibration and process engineering solutions. Furthermore, a comprehensive offer including all-round service is made possible through AViTEQ and AEG.


Hopper Discharge Units


Vibrating Screens

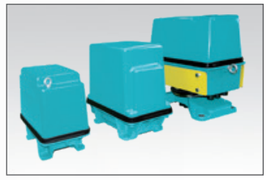

Tubular feeders


Spiral Conveyors

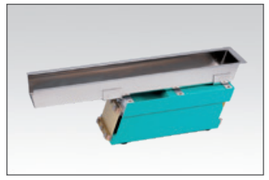
Components

AViTEQ develops, builds and distributes drive components and control systems for vibrating conveyor systems. We also offer 24-hour replacement part support from the spare part warehouse, as well as various repair services (in-house or on-site).


Unbalance Motors


Magnetic Vibrators


Parts Conveyors


Small Conveyors

UNBALANCE MOTORS

Unbalance motors by AViTEQ are specifically designed for discharging and conveying of bulk materials over long distances, as well as screening and dewatering. Renown for high performance, the unbalance motors also offer maximum operational availability and durability. Suitable for 50/60 Hz networks. The following pages offer you additional information about the more than 50 applications types available.

Unbalance Motors by AViTEQ
PERFORMANCE WITH LOYALTY

You can rely on a powerful and reliable performance with unbalance motors by AViTEQ. The performance drive with a robust design also features numerous clever details. Moreover, our superior production quality ensures a longer operation life – one of the many reasons we have been loyally serving many clients for more than 20 years.

Regardless of its surroundings, the unbalance motors by AViTEQ deliver high performance with energy-efficient consumption. What's more, thermistor protection and tropicalization are series standards. Select models also meet requirements for ATEX directives for zones 21 and 22, as well as CSA Classes I and II. AViTEQ unbalance motors are engineered for long lasting performance.

TERMINAL BOARD
6-pin fully mounted (voltage up to 690 V without additional insulation).

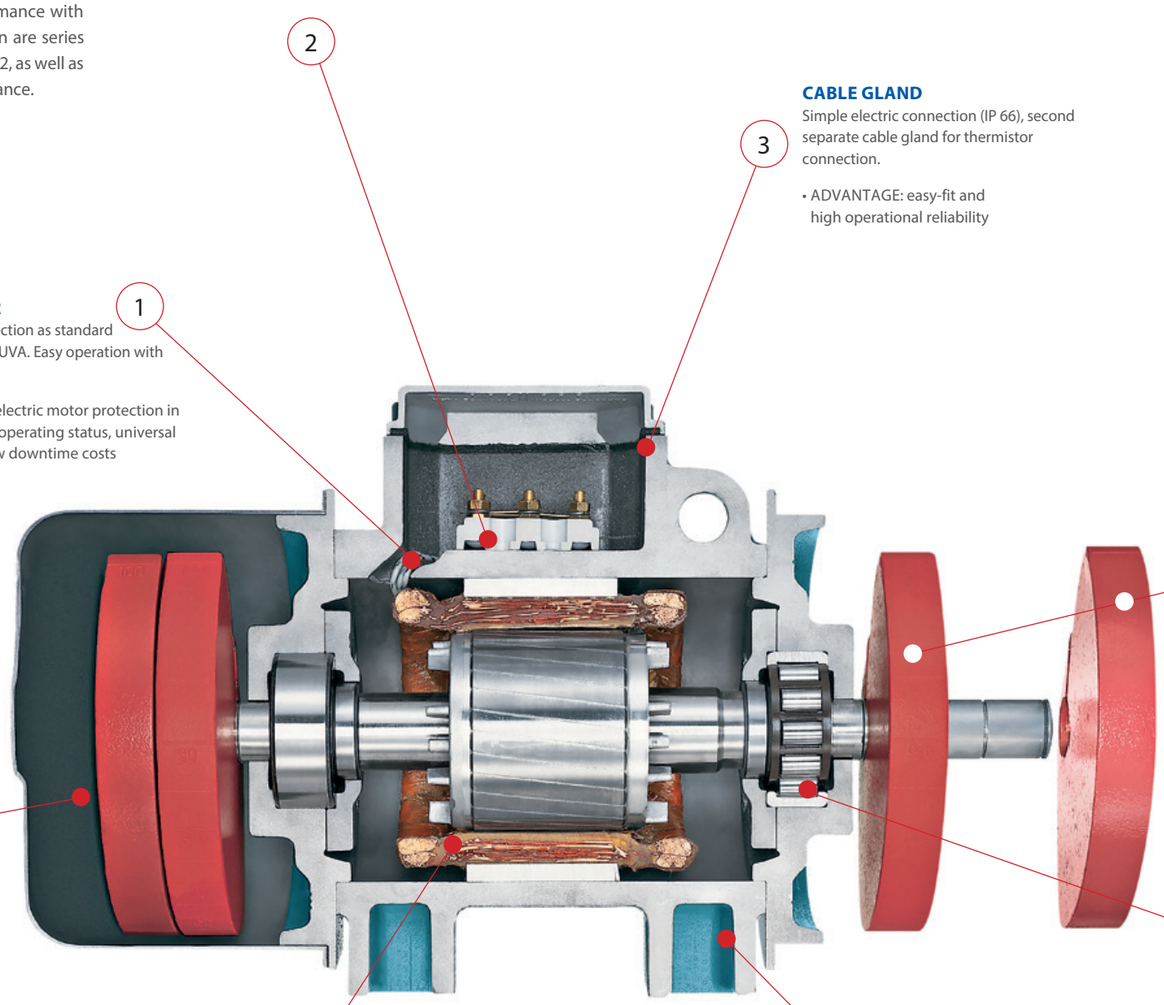
- ADVANTAGE: solidly mounted, no risk of vibration fatigue failure

CABLE GLAND
Simple electric connection (IP 66), second separate cable gland for thermistor connection.

- ADVANTAGE: easy-fit and high operational reliability

THERMISTOR
Thermistor protection as standard from model size UVA. Easy operation with speed controller.

- ADVANTAGE: electric motor protection in unforeseeable operating status, universal application, low downtime costs



UNBALANCE WEIGHTS
Adjustable and permanent legible setting scale.

- ADVANTAGE: quick and precise settings

COVER
Easy handling. Dustproof and waterproof by o-ring flange seal.
Sizes: B, C, D, F, G, H, K, L made of stainless steel
Sizes: N, P made of aluminium cast

- ADVANTAGE: minimal downtimes during servicing

BALL-/ROLLER BEARINGS
Oversized ball-/roller bearings and continuous lubrication or re-lubrication option.

- ADVANTAGE: long service-life, continuous operation at 100% centrifugal force setting, low maintenance costs

WINDING
Embedded in high quality resin; resistant to vibration, moisture and dust; armature shaft made of alloy steel.

- ADVANTAGE: Breliable operation in harsh environments

COVER
Tall feet for the extension of mounting screws; mounting in any position possible; suitable for high stress and large thermal reserve.
Up to Size L: made of stainless steel
Size N and larger: made of cast aluminium

- ADVANTAGE: reliable with high levels of stress, long-lasting

PERFORMANCE DATA OVERVIEW

Centrifugal force range: 40 – 119,000 N

Working moment: 0.08 – 2.763 kgcm

Working weight: 1 – 11,250 kg

Rated Power: 0.03 – 10,000 W

Temperature range: -20 °C – + 40 °C / + 55 °C

Mains connection: Three-phase current/alternating current (50 or 60 Hz) for conventional voltages up to 690 V

Synchronous speeds:
50 Hz network: 750; 1,000; 1,500; 3,000 min^{-1}
60 Hz network: 900; 1,200; 1,800; 3,600 min^{-1}

OUR STANDARDS FOR SAFETY

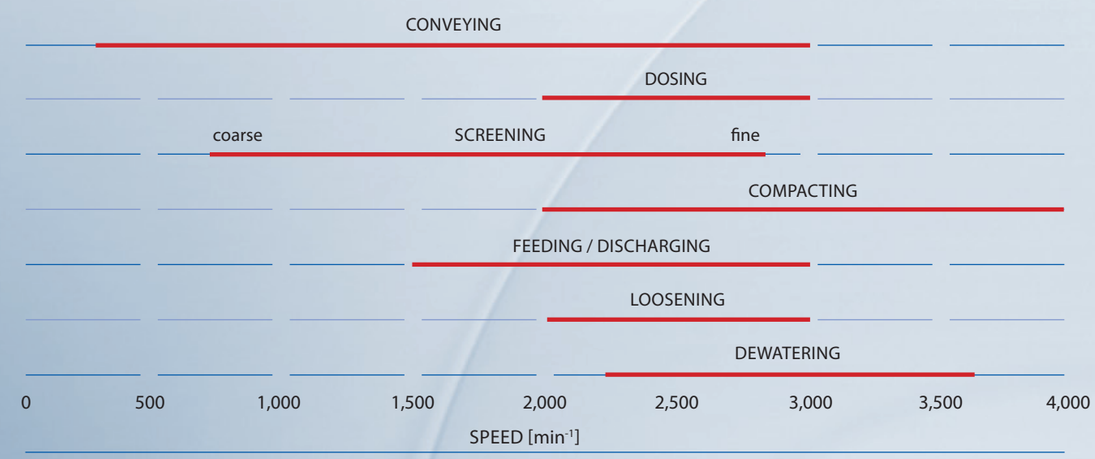
Design and Motor Selection
THE RIGHT MOTOR IN AN INSTANT

DESIGN
The vibration amplitude is the central benchmark in designing an unbalance motor. Together with acceleration of the respective frequency, the vibration amplitude delivers the power, which flows from the drive to the working unit. The motor characteristics on the next page demonstrate the optimal motor. The diagrams give you a quick and easy overview of the vibration amplitudes for all motor types, in relation to working weights.

DIRECTION OF ROTATION
To ensure linear vibrations on longitudinal conveyors, such as trough feeders or vibrating screens, at least two motors with counter-rotating directions are required. Devices with torsional vibration, however, require drives with the same direction of rotation. Such intricate details, even in short-term operations, can cause major damage to working units.

The mounting of the motor must take place on a rigid drive part, to avoid the significant risk of breaking. Furthermore, the motors cannot synchronize automatically and would exceed the energy consumption limitations. With large and long-distance longitudinal conveyors, cross vibration monitoring is used to ensure proper rotation at all times.

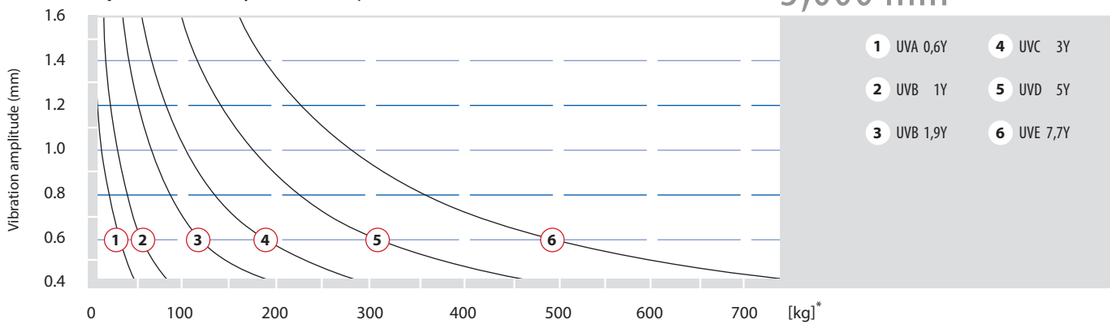
STEP 1 TO THE RIGHT MOTOR: FUNCTIONALITY



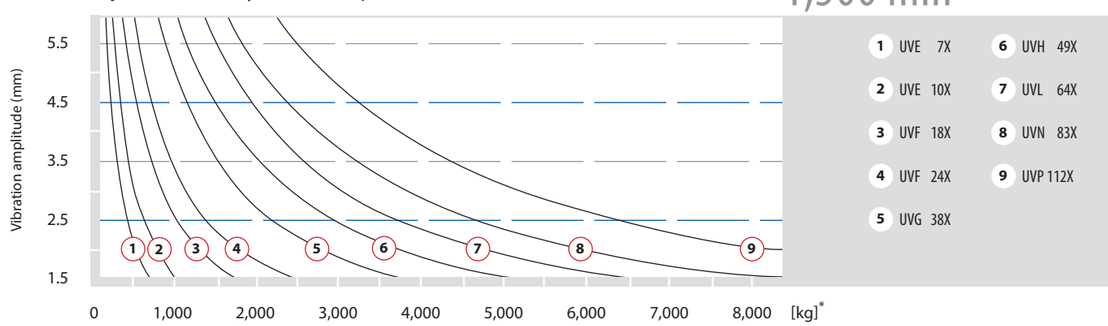
Depending on the type of application, vibration amplitudes and acceleration values are calculated based on the nominal speed in the relevant network

PERFORMANCE CHARACTERISTICS IN A 50 HZ MAINS FREQUENCY

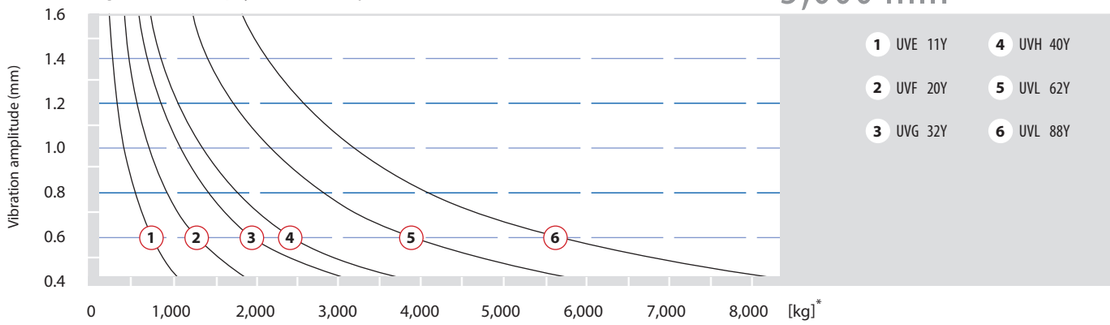
2-pole motores, synchronous speed: 3,000 min^{-1}



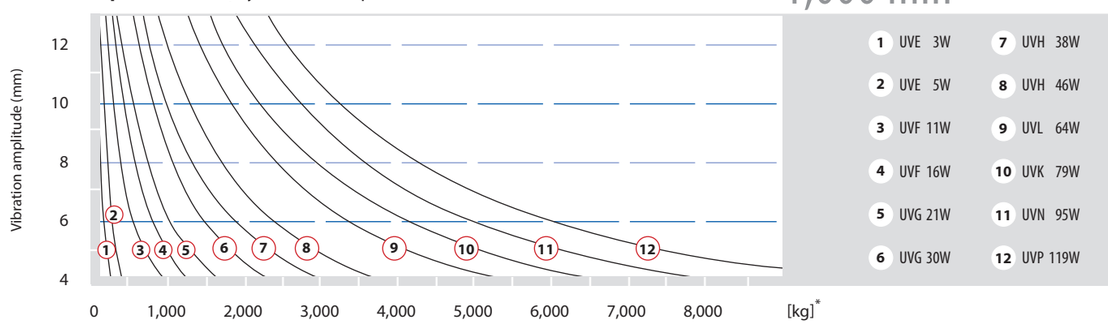
4-pole motores, synchronous speed: 1,500 min^{-1}



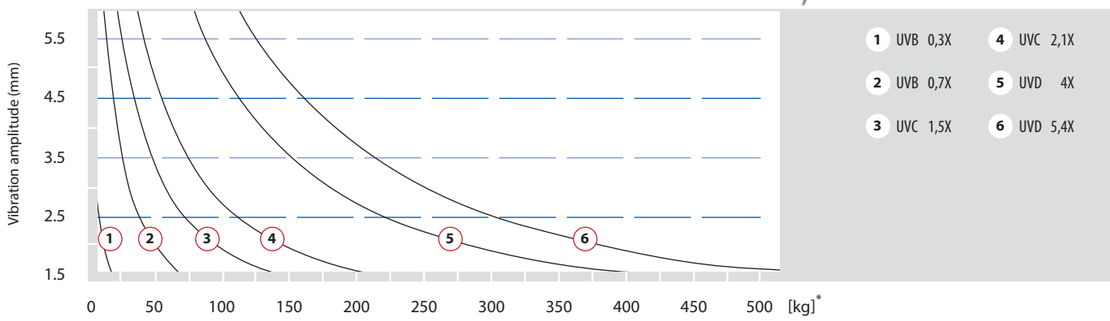
2-pole motores, synchronous speed: 3,000 min^{-1}



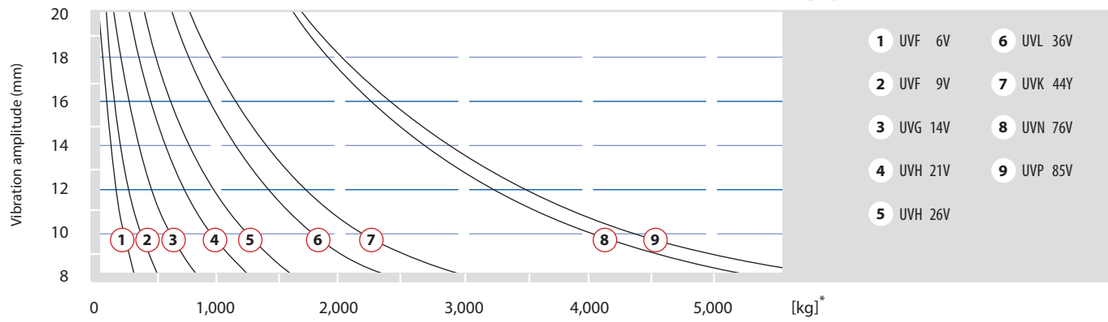
6-pole motores, synchronous speed: 1,000 min^{-1}



4-pole motores, synchronous speed: 1,500 min^{-1}



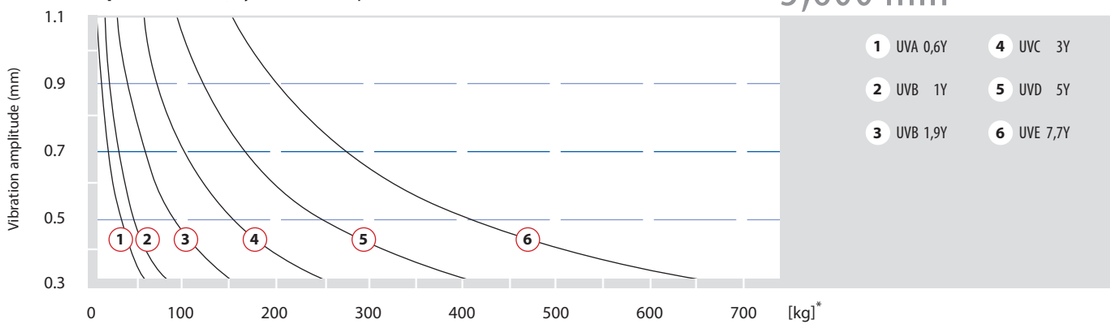
8-pole motores, synchronous speed: 750 min^{-1}



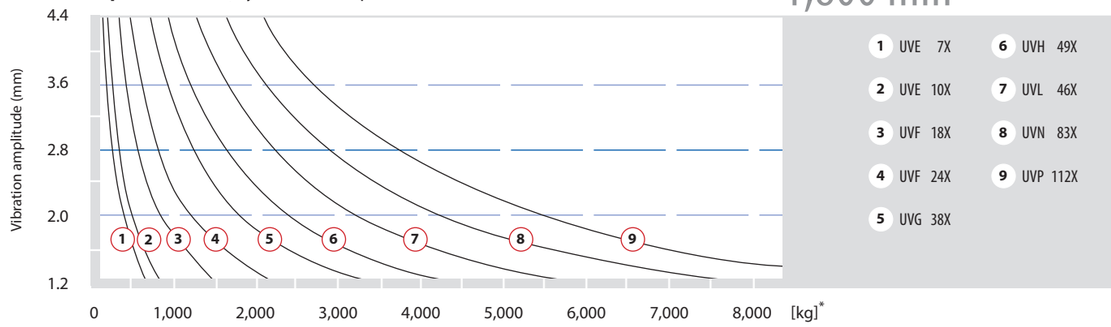
* Working weight [kg] – when driven by two motors

PERFORMANCE CHARACTERISTICS IN A 60 HZ MAINS FREQUENCY

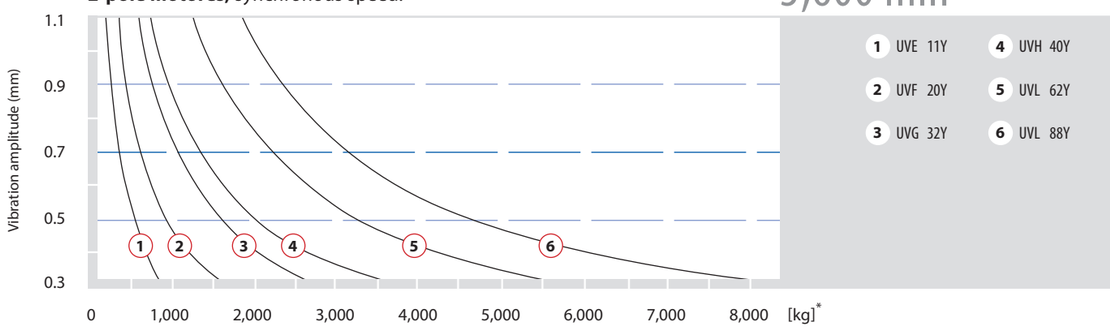
2-pole motores, synchronous speed: 3,600 min^{-1}



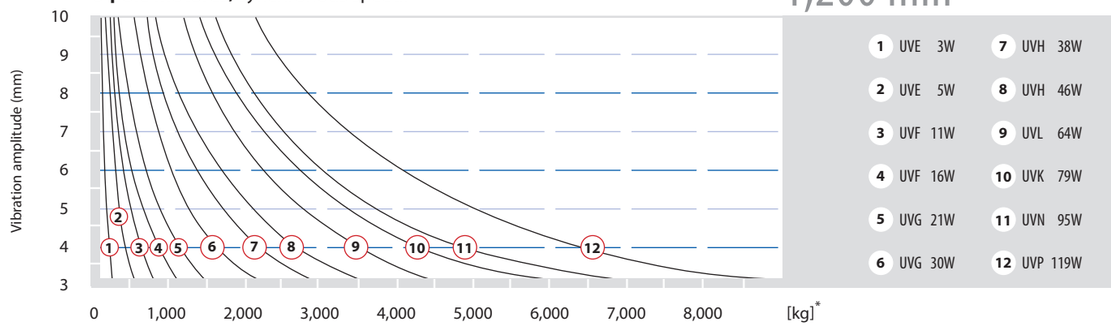
4-pole motores, synchronous speed: 1,800 min^{-1}



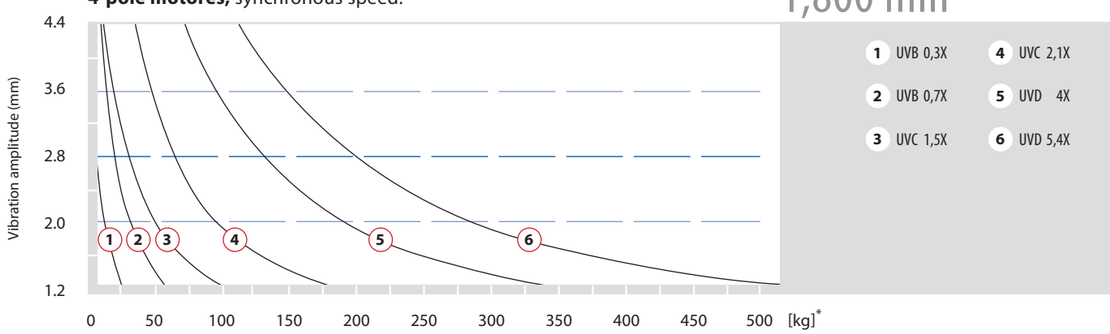
2-pole motores, synchronous speed: 3,600 min^{-1}



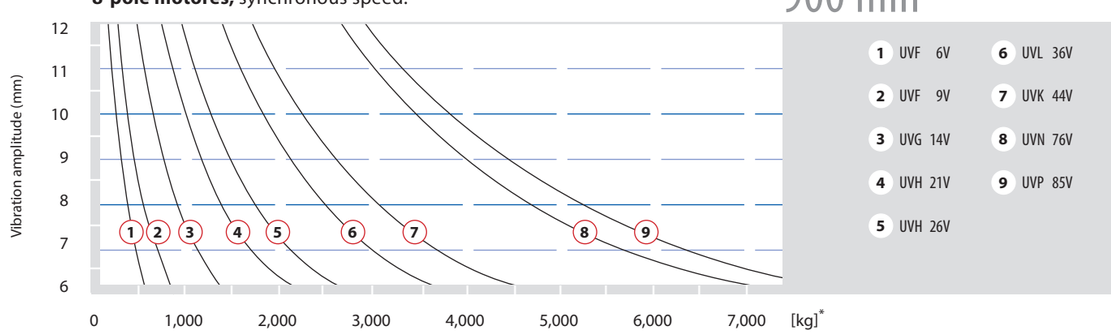
6-pole motores, synchronous speed: 1,200 min^{-1}



4-pole motores, synchronous speed: 1,800 min^{-1}

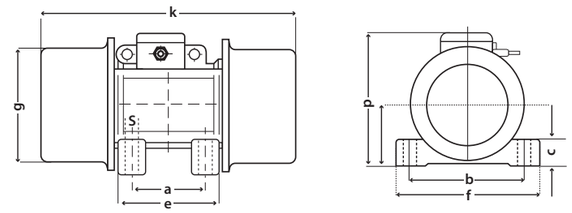


8-pole motores, synchronous speed: 900 min^{-1}



*Working weight [kg] – when driven by two motors

2-POLE AND 4-POLE MOTORS FOR A 50 HZ MAINS FREQUENCY



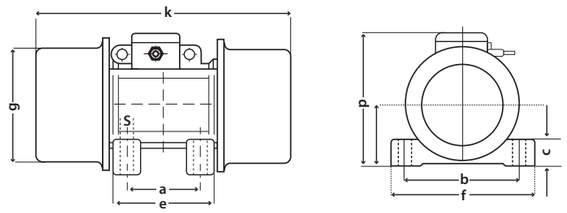
Dimensions [mm]

	Series UV	eUV [3]	fUV [3]	cUV [3]	Centrifugal force [N]	Working moment [kgcm]	Motor weight [kg]	Working weight range[1] [kg] from	to	Rated Current max. [A] [3] 230 V	400 V	Rated Power max. [kW]	a	b	c	e	f	g	h	k	p	s	Screws
2-pole (3,000 min^{-1})																							
UV1A 0,04Y[2]	■	□	□	□	39	0,08	0,92	impact vibrator	impact vibrator	0.13	N.A.	0.02	25 - 40	75	9	59	90	65	34	113	66,5	5.5	M5
UVA 0,6Y	■	□	□	□	630	1.28	4,3	14	55	0.47	0.27	0.12	62.5	95	24	86	127	106	70	197	123	11.5	M10
UVB 1Y	■	■	□	□	1,195	2.42	5,2	23	113	0.61	0.35	0.18	68.0	106	22	98	125	100	61	209	150	9.0	M8
UVB 1,9Y	■	■	□	□	1,995	4.04	5,8	42	196	0.61	0.35	0.18	68.0	106	22	98	125	100	61	225	150	9.0	M8
UVC 3Y	■	■	□	□	2,960	6.00	9,0	60	285	1.04	0.60	0.26	90.0	125	28	128	152	123	73	255	171	13.0	M12
UVD 5Y	■	■	□	□	5,725	11.60	14.3	121	556	1.39	0.80	0.45	105.0	140	30	146	167	143	83	284	203	13.0	M12
UVE 7,7Y	■	■	□	□	7,355	14.90	19.6	147	705	1.91	1.10	0.65	120.0	170	45	174	205	168	94	308	211	17.0	M16
UVE 11Y	■	■	□	□	10,900	22.00	24.0	230	1,055	3.05	1.75	1.00	120.0	170	42	162	205	181	105	354	224	13.0	M12
UVF 20Y[4]	■	□	□	□	20,250	41.00	46.0	400	1,940	5.75	3.30	2.00	125.0	210	65	175	260	201	124.5	490	254.5	17.0	M16
UVG 32Y[4]	■	□	□	□	31,600	64.00	88.0	595	2,995	11.30	6.50	4.00	165.0	260	25	270	315	269	155	589	319	26.0	M24
UVH 40Y[4]	■	□	□	□	40,000	81.00	145.0	725	3,760	11.30	6.50	4.00	280.0	290	70	346	356	296	173	678	366	26.0	M24
UVL 62Y	■	□	□	□	62,400	126.00	184.0	1,210	5,930	16.00	9.20	5.50	200.0	320	90	270	390	334	189	662	381	28.0	M27
UVL 88Y[4]	■	□	□	□	88,400	179.00	215.0	1,810	8,520	31.30	18.00	10.00	200.0	320	30	351	390	359	192	624	392	28.0	M27
4-pole (1,500 min^{-1})								from	to	230 V	400 V		a	b	c	e	f	g	h	k	p	s	Screws
UVB 0,3X	■	□	□	□	300	2.42	5.2	4	26	0.36	0.21	0.09	68	106	22	98	125	100	61	209	150	9.0	M8
UVB 0,7X	■	□	□	□	800	6.46	6.2	12	77	0.36	0.21	0.09	68	106	22	98	125	100	61	241	150	9.0	M8
UVC 1,5X	■	■	□	□	1,460	11.8	10.7	21	139	0.71	0.41	0.21	90	125	28	128	152	123	73	295	171	13.0	M12
UVC 2,1X	■	■	□	□	2,070	16.8	11.7	36	205	0.71	0.41	0.21	90	125	28	128	152	123	73	295	171	13.0	M12
UVD 4X	■	■	□	□	4,020	32.6	19.0	75	400	1.04	0.60	0.30	105	140	30	146	167	143	83	340	203	13.0	M12
UVD 5,4X	■	■	□	□	5,400	43.8	20.7	105	545	1.04	0.60	0.30	105	140	30	146	167	143	82	380	203	13.0	M12
UVE 7X	■	■	□	□	7,060	57.2	26.2	140	715	1.60	0.92	0.53	120	170	45	174	205	168	94	382	211	17.0	M16
UVE 10X	■	■	□	□	10,240	83.0	32.5	220	1,050	1.65	0.95	0.55	120	170	42	162	205	181	105	436	224	13.0	M12
UVF 18X	■	■	□	□	17,650	143.0	51.0	250	1,780	3.50	2.00	1.10	125	210	65	175	260	201	124.5	490	254.5	17.0	M16
UVF 24X	■	■	□	□	23,700	192.0	71.0	500	2,400	5.55	3.20	1.60	125	210	65	175	255	231	140	523	279	17.0	M16
UVG 38X	■	■	□	□	37,600	305.0	107.0	775	3,825	6.75	3.90	2.20	165	260	25	270	315	269	155	589	319	26.0	M24
UVH 49X	■	■	□	□	49,100	398.0	168.0	990	4,970	10.40	6.00	3.60	280	290	70	346	356	296	173	678	366	26.0	M24
UVL 64X	■	□	□	□	64,150	520.0	208.0	1,320	6,520	18.20	10.50	6.00	200	320	90	270	390	334	189	662	381	28.0	M27
UVN 83X	■	■	□	□	82,550	669.0	317.0	1,600	8,290	21.10	12.20	7.50	2 x 125	380	35	325	460	387	215	866	433	39.0	6 x M36
UVP 112X	■	□	□	□	112,100	909.0	433.0	2,165	11,255	30.20	17.50	10.00	2 x 140	440	38	370	530	420	230	994	454	44.0	8 x M42

■ Available
□ Not available

[1] with drive by two unbalance motors
[2] 1-phase AC unbalance motor with fixed 3-core cable, only available in 230V/50Hz or 115V/60Hz Motor housing of type UV1A 0,04Y and UVA 0,6Y aluminium bright, from type UVB... powder coated in standard color RAL 5018 (other colors available on request)
[3] series eUV, fUV and cUV have different technical data
[4] no ATEX approval

6-POLE AND 8-POLE MOTORS FOR A 50 HZ MAINS FREQUENCY



Dimensions [mm]

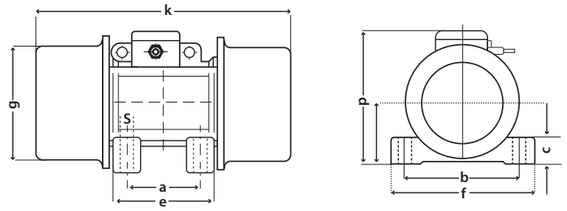
	Series UV	eUV [3]	fUV [3]	cUV [3]	Centrifugal force [N]	Working moment [kgcm]	Motor weight [kg]	Working weight range[1] [kg] from	to	Rated Current max. [A] [3] 230 V	400 V	Rated Power max. [kW]	a	b	c	e	f	g	h	k	p	s	Screws
6-pole (1,000 min^{-1})																							
UVE 3W	■	■	□	□	3,150	57.2	25.7	40	235	1.25	0.72	0.35	120	170	45	174	205	168	94	382	211	17.0	M16
UVE 5W	■	■	□	□	5,000	91.4	32.6	75	390	1.30	0.75	0.35	120	170	42	162	205	181	105	436	224	13.0	M12
UVF 11W	■	■	□	□	11,100	202	58.0	165	895	2.85	1.65	0.75	125	210	65	175	260	201	124	560	254,5	17.0	M16
UVF 16W	■	■	□	□	16,100	293	83.0	286	1,300	3.80	2.20	1.10	125	210	65	175	255	231	140	600	279	17.0	M16
UVG 21W	■	■	□	□	21,100	385	109.0	350	1,680	7.15	4.10	1.96	165	260	25	270	315	269	155	589	319	26.0	M24
UVG 30W	■	□	□	□	29,500	538	130.0	540	2,400	7.80	4.50	2.20	165	260	25	270	315	269	155	589	319	26.0	M24
UVH 38W	■	■	□	□	37,500	684	195.0	665	3,030	8.83	5.10	2.50	280	290	70	346	356	296	173	770	366	26.0	M24
UVH 46W	■	□	□	□	46,100	841	211.0	870	3,785	11.30	6.50	3.20	280	290	70	346	356	296	173	830	366	26.0	M24
UVL 64W	■	□	□	□	64,000	1,168	263.0	1,270	5,315	14.30	8.20	4.30	200	320	90	270	390	334	189	826	381	28.0	M27
UVK 79W	■	□	□	□	78,900	1,439	327.0	1,560	6,540	21.90	12.60	7.00	280	400	65	350	470	358	199,5	874	404	33.0	M30
UVN 95W	■	■	□	□	95,100	1,735	384.0	1,900	7,910	23.50	13.50	7.60	2 x 125	380	35	325	460	387	215	866	433	39.0	6 x M36
UVN 109W [4]	■	■	□	□	109,000	1,997	398.0	2,400	5,850	23.30	13.50	7.60	2 x 125	380	35	325	460	387	215	1002	433	39.0	6 x M36
UVN 126W [4]	■	■	□	□	126,000	2,300	445.0	2,800	6,800	29.40	17.00	9.60	2 x 125	380	35	325	460	387	215	1002	433	39.0	6 x M36
UVP 119W	■	□	□	□	118,600	2,163	500.0	2,330	9,815	28.30	16.30	9.00	2 x 140	440	38	370	530	420	230	994	454	44.0	8 x M42
UVR 139W [4]	■	□	□	□	138,900	2,530	643.0	2,760	7,150	32.90	19.00	10.60	2 x 140	480	41	510	570	486	268	960	526	45.0	8 x M42
UVR 170W [4]	■	□	□	□	170,000	3,100	691.0	3,550	8,900	42.40	24.50	13.00	2 x 140	480	41	510	570	486	268	1040	526	45.0	8 x M42
UVR 197W [4]	■	□	□	□	196,800	3,590	717.0	4,300	10,540	42.40	24.50	13.00	2 x 140	480	41	510	570	486	268	1120	526	45.0	8 x M42
UVT 220W [4]	■	□	□	□	219,600	4,005	843.0	4,720	11,650	57.00	33.00	19.00	2 x 140	520	38	521	610	542	297	1150	588	45.0	8 x M42
UVT 245W [4]	■	□	□	□	245,260	4,470	864.0	5,400	13,150	57.20	33.00	19.00	2 x 140	520	38	521	610	542	297	1150	588	45.0	8 x M42
UVT 300W [4]	■	□	□	□	299,790	5,460	1.200	6,330	15,800	-	24.00	24.00	2 x 140	600	45	510	700	600	320	1205	649	45.0	8 x M42

													a	b	c	e	f	g	h	k	p	s	Screws
8-pole (750 min^{-1})								from	to	230 V	400 V												
UVF 6V	■	□	□	□	6.250	202	58	55	360	2,40	1,40	0,40	125	210	65	175	260	201	124.5	560	254.5	17.0	M16
UVF 9V	■	□	□	□	9.040	293	83	128	566	3,80	2,20	0,95	125	210	65	175	255	231	140	600	279	17.0	M16
UVG 14V	■	□	□	□	14.350	465	115	175	800	7,10	4,10	1,50	165	260	25	270	315	269	155	589	319	26.0	M24
UVH 21V	■	□	□	□	21.100	684	195	295	1.320	9,30	5,40	2,00	280	290	70	346	356	296	173	770	366	26.0	M24
UVH 26V	■	□	□	□	25.950	841	211	420	1.680	10,40	6,00	2,50	280	290	70	346	356	296	173	830	366	26.0	M24
UVL 36V	■	□	□	□	36.000	1.168	263	640	2.395	14,20	8,20	4,00	200	320	90	270	390	334	189	826	381	28.0	M24
UVK 44V	■	□	□	□	44.400	1.439	327	785	2.945	17,10	9,90	4,90	280	400	65	350	470	358	199.5	874	404	33.0	M30
UVN 76V	■	□	□	□	76.400	2.478	438	1.600	5.320	22,90	13,20	6,80	2 x 125	380	35	325	460	392	215	1,002	433	39.0	6 x M36
UVP 85V	■	□	□	□	85.200	2.763	540	1.685	5.830	24,30	14,00	7,60	2 x 140	440	38	370	530	424	230	1,070	454	44.0	8 x M42

■ Available
□ Not available

[1] with drive by two unbalance motors
[2] 1-phase AC unbalance motor with fixed 3-core cable, only available in 230V/50Hz or 115V/60Hz Motor housing of type UV1A 0,04Y and UVA 0,6Y aluminium bright, from type UVB... powder coated in standard color RAL 5018 (other colors available on request)
[3] eUV, fUV and cUV series have different technical data
[4] Perfomrance characteristic on request

2-POLE AND 4-POLE MOTORS FOR A 60 HZ MAINS FREQUENCY



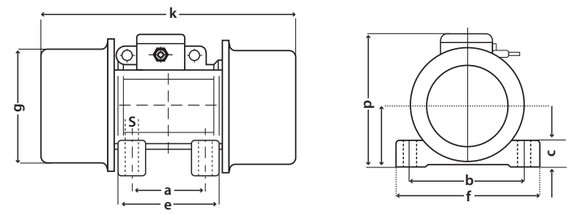
Dimensions [mm]

	Series UV	eUV [3]	fUV [3]	cUV [3]	Centrifugal force [N]	Working moment [kgcm]	Motor weight [kg]	Working weight range[1] [kg] from	to	Rated Current max. [A] [3] 265 V	460 V	Rated Power max. [kW]	a	b	c	e	f	g	h	k	p	s	Screws
2-pole (3,600 min^{-1})																							
UV1 A 0,04Y[2]	■	□	□	□	57	0.08	0.92	impact vibrator	impact vibrator	0,30 (115V)	N.A.	0.02	25-40	75	9	59	90	65	34	113	66.5	5.5	M5
UVA 0,6 Y	■	□	□	□	915	1.28	4.3	15	77	0.49	0.23	0.12	62.5	95	24	86	127	106	70	197	123	11.5	M10
UVB 1Y	■	□	■	■	1,720	2.42	5.2	40	156	0.52	0.30	0.18	68.0	106	22	98	125	100	61	209	150	9.0	M8
UVB 1,9Y	■	□	■	■	2,300	3.24	5.5	53	209	0.52	0.30	0.18	68.0	106	22	98	125	100	61	225	150	9.0	M8
UVC 3Y	■	□	■	■	3,200	4.50	8.6	68	287	0.87	0.50	0.27	90.0	125	28	128	152	123	73	255	171	13.0	M12
UVD 5Y	■	□	■	■	4,950	6.96	13.3	103	440	1.30	0.75	0.50	105.0	140	30	146	167	143	83	284	203	13.0	M12
UVE 7,7Y	■	□	■	■	7,945	11.20	19.0	165	707	1.74	1.00	0.69	120.0	170	45	174	205	168	94	308	211	17.0	M16
UVE 11Y	■	□	■	■	10,400	14.60	23.0	220	930	3.05	1.75	1.20	120.0	170	42	162	205	181	105	354	224	13.0	M12
UVF 20Y[4]	■	□	■	■	18,200	25.60	44.0	360	1,600	5.05	2.90	2.00	125.0	210	65	175	260	201	124.5	490	254.5	17.0	M16
UVG 32Y[4]	■	□	■	■	31,350	44.10	84.0	605	2,745	9.70	5.60	4.00	165.0	260	25	270	315	269	155	589	319	26.0	M24
UVH 40Y[4]	■	□	■	■	40,200	56.60	141.0	750	3,490	9.70	5.60	4.00	280.0	290	70	346	356	296	173	678	366	26.0	M24
UVL 62Y	■	□	■	■	63,000	88.60	178.0	1,255	5,550	13.90	8.00	5.50	200.0	320	90	270	390	334	189	662	381	28.0	M27
UVL 88Y[4]	■	□	□	□	88,100	124.00	210.0	1,835	7,850	22.50	13.00	9.30	200.0	320	30	351	390	359	192	624	392	28.0	M27
4-pole (1,800 min^{-1})								from	to	265 V	460 V		a	b	c	e	f	g	h	k	p	s	Screws
UVB 0,3X	■	□	■	■	430	2.42	5.2	4	31	0.35	0.20	0.10	68	106	22	98	125	100	61	209	150	9.0	M8
UVB 0,7X	■	□	■	■	720	4.04	5.8	9	58	0.35	0.20	0.10	68	106	22	98	125	100	61	241	150	9.0	M8
UVC 1,5X	■	□	■	■	2,090	11.80	10.7	37	180	0.69	0.40	0.23	90	125	28	128	152	123	73	295	171	13.0	M12
UVC 2,1X	■	□	■	■	2,100	11.80	10.7	36	178	0.69	0.40	0.23	90	125	28	128	152	123	73	295	171	13.0	M12
UVD 4X	■	□	■	■	4,020	22.60	18.2	74	348	1.04	0.60	0.35	105	140	30	146	167	143	83	340	203	13.0	M12
UVD 5,4X	■	□	■	■	5,800	32.60	18.5	114	509	1.04	0.60	0.35	105	140	30	146	167	143	82	380	203	13.0	M12
UVE 7X	■	□	■	■	7,430	41.80	24.5	140	650	1.70	0.98	0.67	120	170	45	174	205	168	94	382	211	17.0	M16
UVE 10X	■	□	■	■	9,600	54.00	30.5	180	845	1.65	0.95	0.68	120	170	42	162	205	181	105	436	224	13.0	M12
UVF 18X	■	□	■	■	17.250	97.00	48.5	310	1,495	3.30	1.90	1.20	125	210	65	175	260	201	124.5	490	254.5	17.0	M16
UVF 24X	■	□	■	■	24,000	135.00	66.0	480	2,120	5.20	3.00	1.70	125	210	65	175	255	231	140	523	279	17.0	M16
UVG 38X	■	□	■	■	36,800	207.00	102.0	685	3,215	6.75	3.90	2.50	165	260	25	270	315	269	155	589	319	26.0	M24
UVH 49X	■	□	■	■	48,500	273.00	160.0	895	4,230	8.70	5.00	3.40	280	290	70	346	356	296	173	678	366	26.0	M24
UVL 64X	■	□	■	■	64,700	364.00	195.0	1,255	5,675	15.60	9.00	6.00	200	320	90	270	390	334	189	662	381	28.0	M27
UVN 83X	■	□	■	■	87,400	492.00	303.0	1,580	7,595	20.80	12.00	8.50	2 x 125	380	35	325	460	387	215	866	433	39.0	6 x M36
UVP 112X	■	□	■	■	112,500	633.00	411.0	1,990	9,730	31.00	15.50	10.50	2 x 140	440	38	370	530	420	230	994	454	44.0	8 x M42

■ Available
□ Not available

[1] with drive by two unbalance motors
[2] 1-phase AC unbalance motor with fixed 3-core cable, only available in 230V/50Hz or 115V/60Hz Motor housing of type UV1A 0,04Y and UVA 0,6Y aluminium bright, from type UVB... powder coated in standard color RAL 5018 (other colors available on request)
[3] series eUV, fUV and cUV have different technical data
[4] no ATEX approval

6-POLE AND 8-POLE MOTORS FOR A 60 HZ MAINS FREQUENCY



Dimensions [mm]

	Series UV [3]	eUV [3]	fUV [3]	cUV [3]	Centrifugal force [N]	Working moment [kgcm]	Motor weight [kg]	Working weight range[1] [kg] from	to	Rated Current max. [A] [3] 265 V	460 V	Rated Power max. [kW]	a	b	c	e	f	g	h	k	p	s	Screws
6-pole (1,200 min^{-1})																							
UVE 3W	■	□	■	■	3,300	41.8	24.0	40	235	1.18	0.68	0.38	120	170	45	174	205	168	94	382	211	17.0	M16
UVE 5W	■	□	■	■	7,200	91.4	32.6	120	540	1.18	0.68	0.38	120	170	42	162	205	181	105	436	224	13.0	M12
UVF 11W	■	□	■	■	11,300	143.0	51.0	155	825	2.60	1.50	0.75	125	210	65	175	260	201	124	560	254.5	17.0	M16
UVF 16W	■	□	■	■	15,200	192.0	71.0	242	1,140	3.80	2.20	1.30	125	210	65	175	255	231	140	523	279	17.0	M16
UVG 21W	■	□	■	■	27,200	344.0	105.0	450	2,060	6.50	3.75	2.10	165	260	25	270	315	269	155	589	319	26.0	M24
UVG 30W	■	□	■	■	29,600	375.0	115.0	490	2,240	7.45	4.30	2.40	165	260	25	270	315	269	155	589	319	26.0	M24
UVH 38W	■	□	■	■	37,600	476.0	177.0	600	2,820	8.70	5.00	3.00	280	290	70	346	356	296	173	770	366	26.0	M24
UVH 46W	■	□	■	■	46,000	583.0	192.0	785	3,505	10.40	6.00	3.60	280	290	70	346	356	296	173	830	366	26.0	M24
UVL 64W	■	□	■	■	64,000	811.0	234.0	1,155	4,940	14.00	8.10	5.00	200	320	90	270	390	334	189	826	381	28.0	M27
UVK 79W	■	□	■	■	78,400	993.0	293.0	1,400	6,040	19.60	11.30	7.50	280	400	65	350	470	358	199.5	874	404	33.0	M30
UVN 95W	■	□	■	■	89,500	1,133.0	343.0	1,580	6,870	21.50	12.40	8.00	2 x 125	380	35	325	460	387	215	866	433	39.0	6 x M36
UVP 119W	■	□	■	■	119,200	1,509.0	445.0	2,130	9,170	30.00	15.00	9.50	2 x 140	440	38	370	530	420	230	994	454	44.0	8 x M42
8-pole (900 min^{-1})								from	to	265 V	460 V		a	b	c	e	f	g	h	k	p	s	Screws
UVF 6V	■	□	■	■	9,000	202.0	58.0	175	590	2,60	1.30	0.50	125	210	65	175	260	201	124.5	560	254.5	17.0	M16
UVF 9V	■	□	■	■	13,020	293.0	83.0	302	900	4.40	2.20	1.10	125	210	65	175	255	231	140	600	279	17.0	M16
UVG 14V	■	□	■	■	20,650	465.0	115.0	485	1,430	7.28	4.20	1.79	165	260	25	270	315	269	155	589	319	26.0	M24
UVH 21V	■	□	■	■	30,400	684.0	195.0	740	2,135	9.00	5.20	2.30	280	290	70	346	356	296	173	770	366	26.0	M24
UVH 26V	■	□	■	■	37,350	841.0	211.0	965	2,680	10.40	6.00	3.00	280	290	70	346	356	296	173	830	366	26.0	M24
UVL 36V	■	□	■	■	51,900	1,168.0	263.0	1,400	3,780	13.60	7.85	4.30	200	320	90	270	390	334	189	826	381	28.0	M24
UVK 44V	■	□	■	■	63,930	1,439.0	327.0	1,715	4,645	16.50	9.50	5.80	280	400	65	350	470	358	199.5	874	403	33.0	M30
UVN 76V	■	□	■	■	97,500	2,195.0	419.0	2,675	7,145	20.80	12.00	7.45	2 x 125	380	35	325	460	392	215	1,002	433	39.0	6 x M36
UVP 85V	■	□	■	■	110,200	2,481.0	520.0	2,930	7,980	23.40	13.50	8.30	2 x 140	440	38	370	530	424	230	1,070	454	44.0	8 x M42

■ Available
□ Not available

[1] with drive by two unbalance motors
[2] 1-phase AC unbalance motor with fixed 3-core cable, only available in 230V/50Hz or 115V/60Hz Motor housing of type UV1A 0,04Y and UVA 0,6Y aluminium bright, from type UVB... powder coated in standard color RAL 5018 (other colors available on request)
[3] series eUV, fUV and cUV have different technical data

CE all UV series are CE certified

UV series :
1) normal areas (Europe), (overseas if there is no special certification requirement)
2) dust explosion hazardous areas (zone 21 and 22) according to the related type examination certificate LCIE 07 ATEX 6020 X* with the approval: Ex II 2 D tD A21
3) normal areas with CSA requirement according to associated approval: CSA certificate: 1181557 with exception of UVH 40Y-... and UVL 88Y-...

eUV series:
1) normal areas (Europe), (overseas if there is no special certification requirement)
2) dust explosion hazardous areas (zone 21 and 22) and gas explosion hazardous areas according to the associated type examination certificate LCIE 07 ATEX 6031 X/02* with the approval: Ex II 2 D tD A21 IP66 T 135°C and the approval: Ex II G e II T3 and/or T4 - Ex II 2 D tD A21 IP66 T 135°C

fUV series:
1) normal areas (North America)
2) hazardous dust areas with CSA requirement according to associated approval: CSA certificate: 2593962 with approval: Class II (dust), Division 1, Groups E, F and G (representing different dusts)

cUV series:
1) normal areas (North America)
2) explosive gas atmospheres with CSA requirement according to related approval: CSA certificate: 1181557 with the exception of the UVH 40Y-... and the UVL 88Y-... with the approval: Class I (gas), Division 2, Groups A, B, C and D (represent different gases)

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