

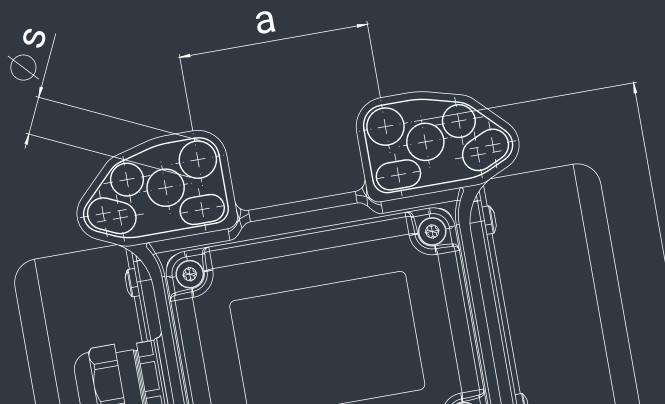


ELECTRIC VIBRATORS

würges

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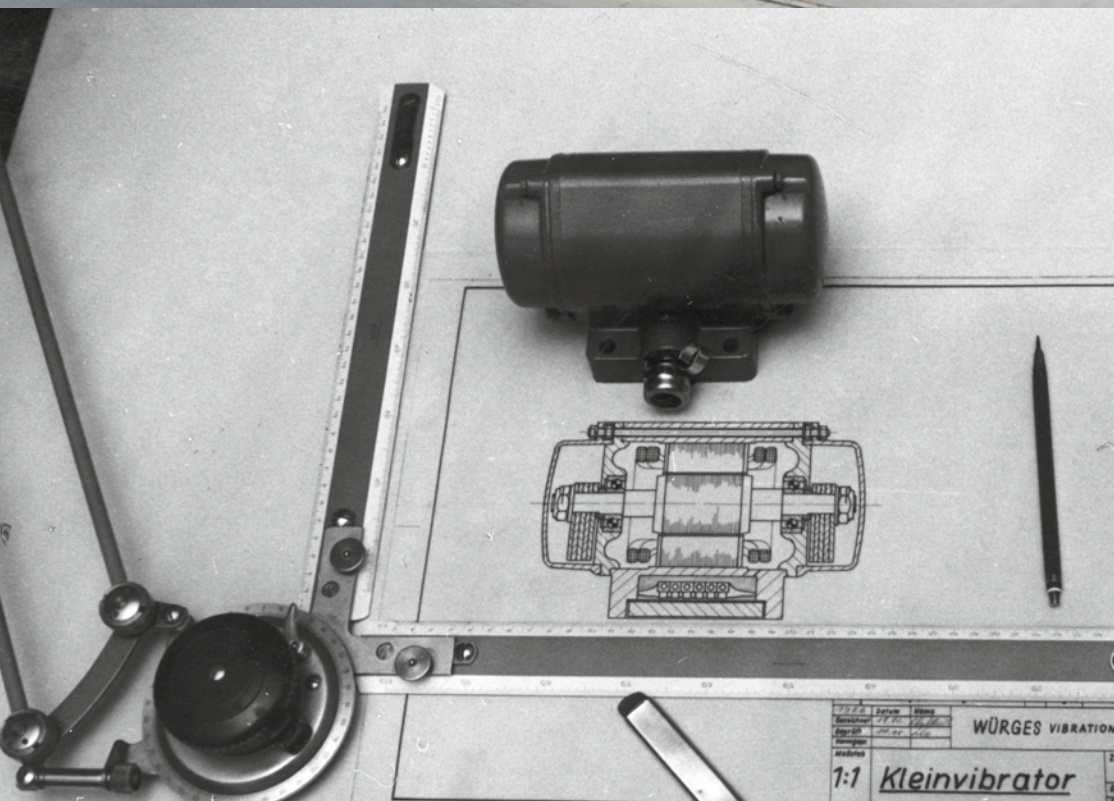


COMPANY HISTORY

- Founded in Augsburg in 1947 as a trading company for construction machinery by Karl Würges
- 1965: Production of vibrating motors begins
- Reiner Würges becomes managing director
- 1977: Production of explosion-proof motors
- 1978: Relocation from Augsburg to Neusäß
- 1982: Concentration of production on a single product: Electric vibrator motors
- 2002: ISO 9001 certification
- 2007: Establishment of our own CNC production
- 2008: Introduction of the 3D CAD software SolidWorks
- 2012: Philipp Würges takes over management
- Family-owned for three generations
- 2012: Start of development of motors with centrifugal forces up to 130 kN
- 2018: New building and move to the new factory
- 2019: Introduction of SAP



würges

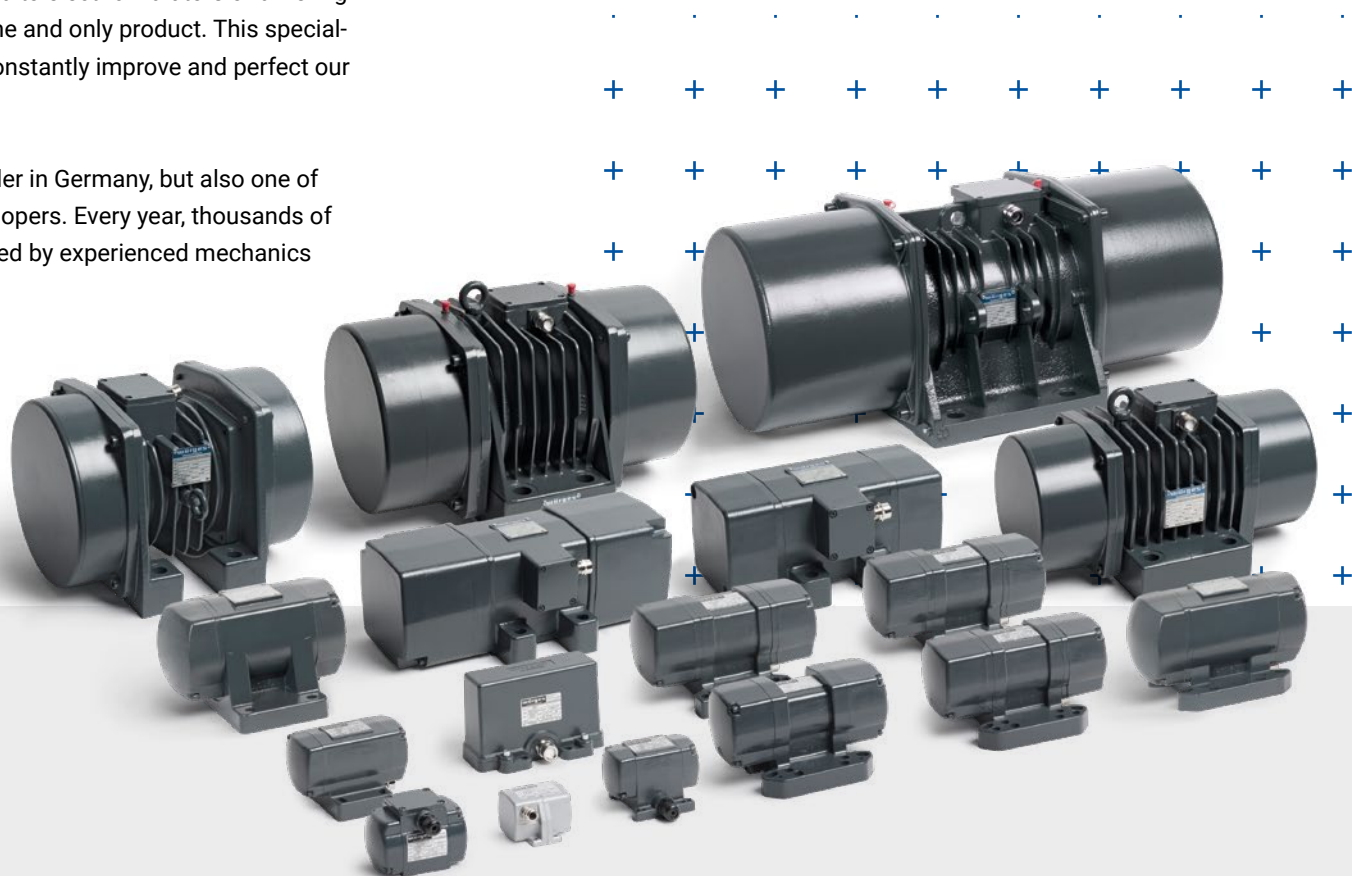


MADE IN GERMANY SINCE 1965

ALWAYS ON THE MOVE

Our production unit, at the company headquarters in Neusaess, close to the Bavarian city of Augsburg, is dedicated to electric vibrators of differing sizes and capacities. They are Würges' one and only product. This specialization over 50 years has allowed us to constantly improve and perfect our motors.

Today, Würges is not only the market leader in Germany, but also one of the world's most innovative product developers. Every year, thousands of motors are developed, tested and produced by experienced mechanics and first-class engineers..

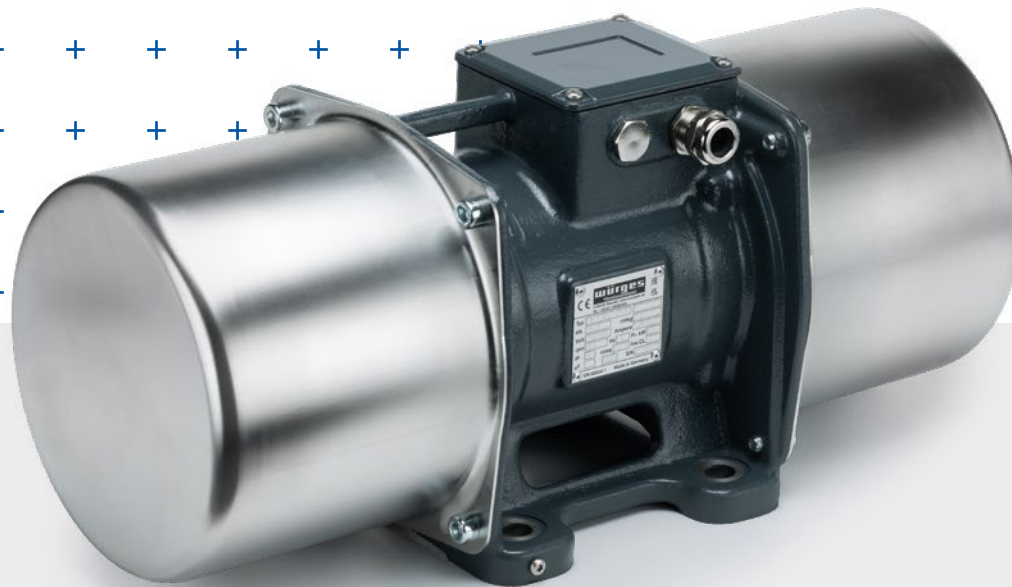


VIBRATION IS OUR STRONG POINT

OUR PRODUCTS

Würges electric vibrators can be put to work in any situation where a lack of movement would slow down the working process.

Würges is certified according to ISO 9001-2015 and the ATEX Directive 2014/34/EU. As such, our electric vibrators are also suitable for use in areas where there is a danger of explosion.



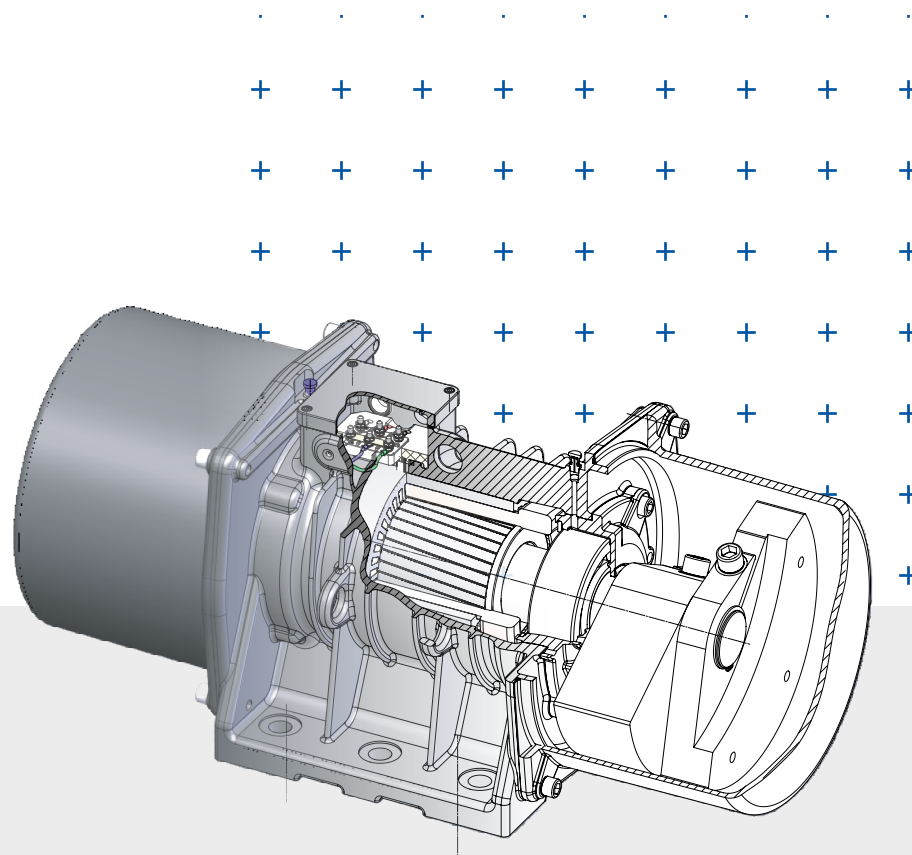
QUALITY THAT YOU CAN FEEL

TECHNICAL FEATURES

- **Voltage** 3~230/400V 50Hz and 1~230V 50Hz
- 12V/24V (DC)
- **PTC thermistors (130°C)** from size HV 40
- 2, 4, 6 and 8 pole versions available
- (10- and 12-pole versions on request)
- **Low energy consumption** with highest starting torque
- The windings of the sizes HV 1, HV 2 and HV 6 are **completely cast under vacuum** in the stator housing
- In the other series the complete winding is **impregnated twice with special resin**, not just the winding head
- All windings are equipped with **phase insulation** for safe operation with frequency converters
- **Tropical isolation** is standard
- **Insulation class F** (155°C)
- **Ambient temperature** -20°C to +40°C, for some types up to +55°C
- The stator housings from size HV 40 are made of nodular cast iron with cooling fins for **optimal elasticity and strength**
- **Impact-resistant protective covers cast** from special aluminum or deep-drawn from electrically polished stainless steel
- **Easy adjustment** of the centrifugal force using steps or stepless from 0% - 100% through a scale etched on the unbalance disks
- All sealing surfaces are machined for perfect a seal. All O-ring seals sit securely recessed in grooves
- **Protection class IP 66** according to IEC 529, EN 60529 (HV 2 GL: IP 69K according to ISO 20653:2013)
- Impact protection IK 08 according to IEC 68, ISO 50102
- **Premium rolling bearings** with increased C4 internal clearance, made just for us
- Cylindrical roller bearings with **increased load capacity** and with a spherically ground inner ring
- Each motor undergoes a **test run** with full unbalance adjustment and checking the rated current before delivery
- **Paint: RAL 7016**, (HV 0.1, HV 0.4, HV 1 are unpainted)
- **ISO 9001:2015** certified by TÜV Rheinland
- **Compliant with the following European directives:** 2014/35/EU (low voltage), EN 60034-1

SPECIAL VERSIONS

- **Special voltages** 3~42V-700V 50Hz / 60Hz available
- Special windings with **PTC thermistors** (130°C and 155°C) and **anti-condensation heaters** (heaters) available
- **Pole-changing** motors
- **ATEX version** (Zone 22) available for most models
- **Insulation class class H** (180°C)
- Ambient temperature for some Types up to **+55°C**
- Low temperature version with special bearing grease for operation up to **-65°C**
- **Impact-resistant** protective covers deep-drawn from electrically polished stainless steel
- **Special paint finishes**
- **Special epoxy coating** with stainless steel particles 316L ("STEEL IT") with USDA approval for the food sector
- **Specially certified rolling bearing grease** for the food sector
- Various **mounting bolt patterns** available to fit **market competitors**
- **Different cable Types and lengths** connected to the motor available

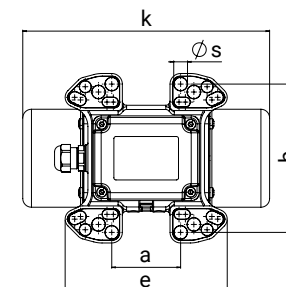
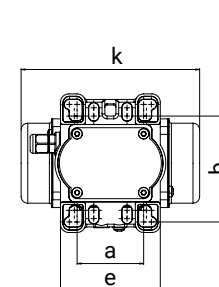
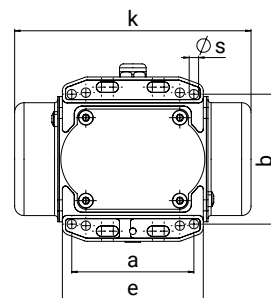
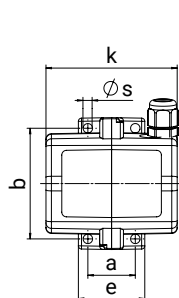


OVERVIEW

DRAWINGS

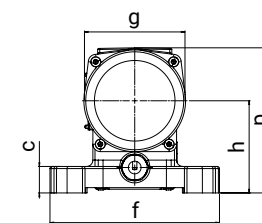
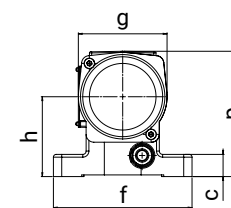
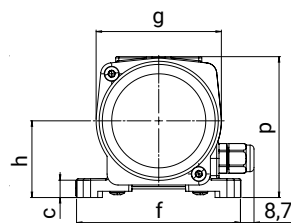
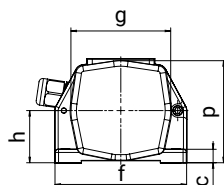
AA: Multi-hole pattern

- 60x85 Ø6,0
- 78x83 Ø6,0
- 25-40x92 Ø6,0 4xM5 (8 Nm)
or 4xM6 (8 Nm)



BB: Multi-hole pattern

- 60-65x85-106 Ø9,5
- 62-84x106 Ø9,0
- 30x85-102 Ø9,0 4xM8 (30 Nm)



Drawing A

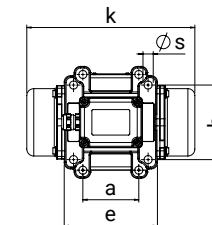
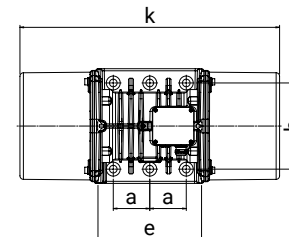
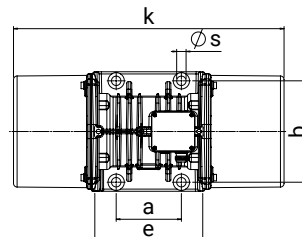
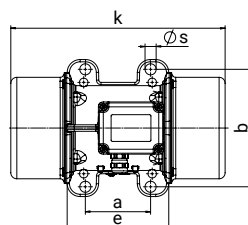
Drawing B

Drawing C

Drawing D

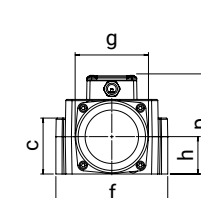
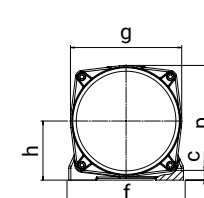
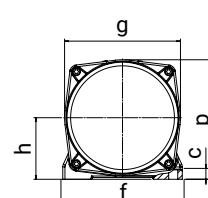
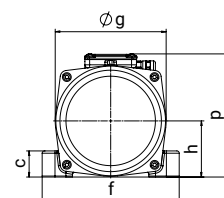
CC: Multi-hole pattern

- 62-74x106 Ø9 4xM8 (30Nm)
- 65x140 Ø12,5 4xM12 (75Nm)
- 90x125 Ø12,5 4xM12
- 115x135 Ø11 4xM10 (55 Nm)
- 124x110 Ø11 4xM10 (55 Nm)
- 35x115 Ø11 4xM10 (55 Nm)



DD: Multi-hole pattern

- 65x140 Ø13 4xM12 (75 Nm)
- 90x125 Ø13 4xM12 (75 Nm)
- 135x115 Ø11 4xM10 (55 Nm)
- 124x110 Ø11 4xM10 (55 Nm)



Drawing E

Drawing F

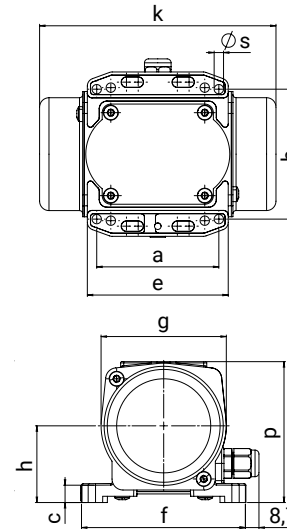
Drawing G

Drawing J

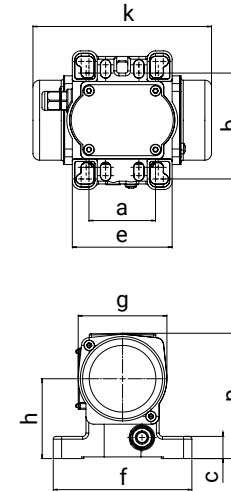
3 PHASE ELECTRIC VIBRATOR MOTORS 2-POLE

Synchronous speed 50 Hz 3000 min⁻¹, 60 Hz 3600 min⁻¹

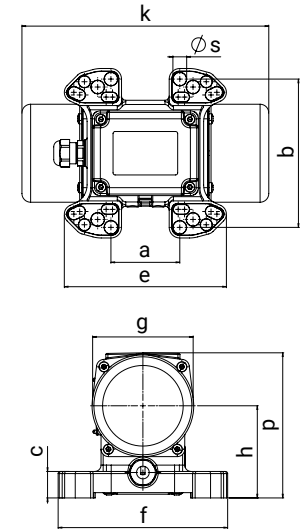
- AA-DD: Multi-hole pattern, see page 5
- 3D: These motors are also available in ATEX version for Zone 22
(Type designation HVe)
- * including 2 m cable



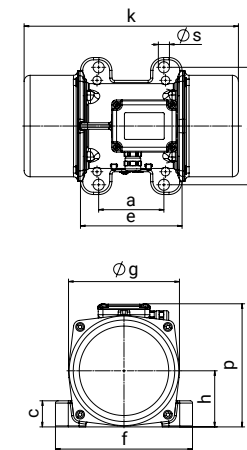
Drawing B



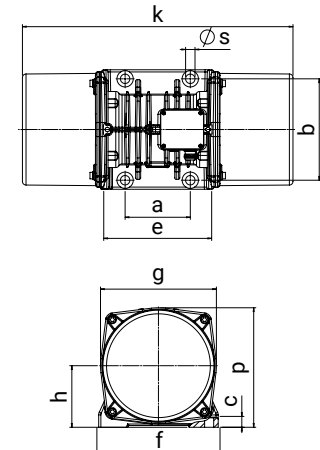
Drawing C



Drawing D



Drawing E



Drawing F

Type	Frame	Working moment		Force		Power	Current		Starting-/ rated current	Drawing	Measure- ments										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		cmkg		N		W	A		IA/IN		mm										kg	mm			ATEX
		50Hz	60Hz	50Hz	60Hz		400V 50Hz	480V 60Hz			a	b	s	c	e	f	h	g	p	k					
HV 0,4/2*	Al	0,40	0,40	200	290	50	0,10	0,10	2,4	B	AA	AA	AA	12	90	105	49	80	90	151	1,80	5-10	M16x1,5	AA	3D
HV 0,4/2-1*	Al	0,90	0,90	450	650	50	0,10	0,10	2,4	B	AA	AA	AA	12	90	105	49	80	90	151	2,10	5-10	M16x1,5	AA	3D
HV 1/2	Al	1,00	0,80	500	576	95	0,18	0,15	2,6	C	BB	BB	BB	20	90	125	72	80	113	161	3,40	5-10	M16x1,5	4xM8	3D
HV 2/2-4	Al	3,70	3,70	1760	2534	160	0,29	0,24	3,3	D	CC	CC	CC	25	153	160	87	96	137	203	5,90	6-12	M20x1,5	CC	3D
HV 2/2-6	Al	6,00	-	2860	-	160	0,29	-	3,3	D	CC	CC	CC	25	153	160	87	96	137	233	6,20	6-12	M20x1,5	CC	3D
HV 6/2	Al	6,10	6,10	3050	4390	300	0,57	0,48	4,2	D	DD	DD	DD	26	153	160	91	114	150	265	7,64	6-12	M20x1,5	DD	3D
HV 6/2-8	Al	8,40	-	4200	-	350	0,70	-	3,4	D	DD	DD	DD	26	153	160	91	114	150	265	8,35	6-12	M20x1,5	DD	-
HV 8/2*	Al	8,40	6,10	4200	4390	650	1,25	1,04	4,5	E	100 105	180 140	17 13	40	156	210	86	170	190	329	15,30	9-14	M20x1,5	4xM16 4xM12	3D
HV 8/2-11*	Al	10,50	7,50	5250	5400	650	1,25	1,04	4,5	E	100 105	180 140	17 13	40	156	210	86	170	190	329	15,60	9-14	M20x1,5	4xM16 4xM12	3D

Type	Frame	Working moment		Force		Power	Current		Starting-/ rated current	Drawing	Measure- ments										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		cmkg		N		W	A		IA/IN		mm										kg	mm			ATEX
		50Hz	60Hz	50Hz	60Hz		400V 50Hz	480V 60Hz			a	b	s	c	e	f	h	g	p	k					
HV 12/2*	Al	12,00	9,00	6000	6480	650	1,25	1,04	4,5	E	100 105	180 140	17 13	40	156	210	86	170	190	329	15,80	9-14	M20x1,5	4xM16 4xM12	3D
HV 15/2*	Al	15,00	10,50	7500	7560	650	1,25	1,04	4,5	E	100	180	17	40	156	210	86	170	190	329	16,30	9-14	M20x1,5	4xM16	3D
HV 15/2-20*	Al	21,00	15,00	10500	10800	900	1,55	1,04	4,5	E	100	180	17	40	156	210	86	170	190	329	17,50	9-14	M20x1,5	4xM16	3D
HV 15/2-25*	Al	25,00	18,00	12600	12700	900	1,55	1,29	4,5	E	100	180	17	40	156	210	86	170	190	329	17,90	9-14	M20x1,5	4xM16	3D
HV 15/2-30*	Al	32,00	23,00	16500	16971	900	1,55	1,29	4,5	E	100	180	17	40	156	210	86	170	190	329	19,30	9-14	M20x1,5	4xM16	3D
HV 40/2*	GJS	50,00	33,00	25000	24000	1260	2,00	1,67	TBD	F	140	190	18	20	200	225	120	230	251	398	49,00	13-18	M20x1,5	4xM16	3D
HV 75/2*	GJS	86,00	60,00	43000	43340	3290	5,45	4,54	TBD	F	155	255	23,5	25	260	300	145	280	285	443	82,60	13-18	M20x1,5	4xM22	3D
HV 130/2	GJS	130,00	91,00	63000	63100	4900	7,70	6,42	7,90	F	200	320	28	35	310	390	183	350	358	673	170,00	13-18	M25x1,5	4xM27	3D



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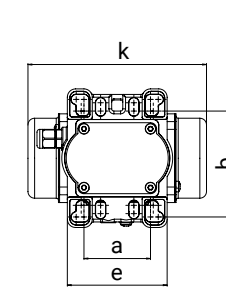
3 PHASE ELECTRIC VIBRATOR MOTORS 4-POLE

Synchronous speed 50 Hz 1500 min⁻¹, 60 Hz 1800 min⁻¹

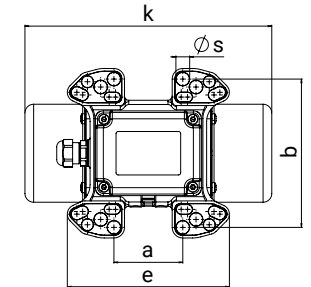
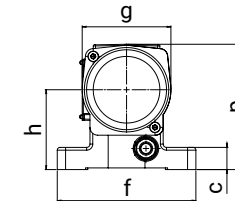
- AA-DD: Multi-hole pattern, see page 5
- 3D: These motors are also available in ATEX version for Zone 22 (Type designation HVe)
- * For some sizes there are several different Mounting bolt patterns available, suitable for our market competitors, see page 27



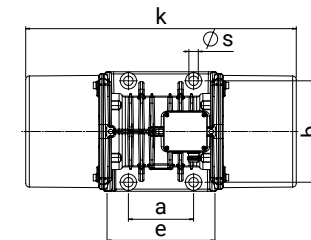
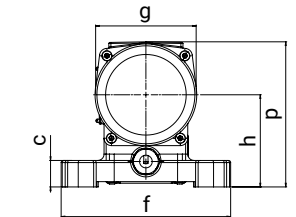
Type HV 2 HF – 2 HVE



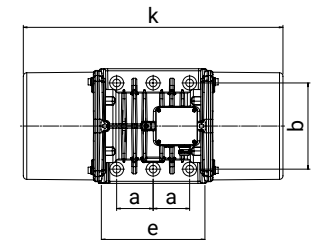
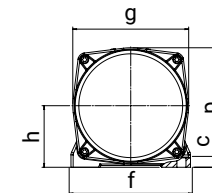
Drawing C



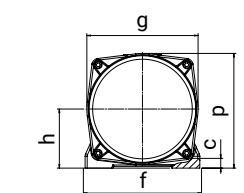
Drawing D



Drawing F



Drawing G



Type	Frame	Working moment		Force		Power	Current		Starting-/ rated current	Drawing	Measure- ments										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		cmkg		N		W	A		IA/IN		mm										kg	mm			ATEX
		50Hz	60Hz	50Hz	60Hz		400V 50Hz	480V 60Hz			a	b	s	c	e	f	h	g	p	k					
HV 2/4-4	Al	3,70	3,70	440	634	140	0,33	0,28	2,3	D	CC	CC	CC	25	153	160	87	96	137	203	5,90	6-12	M20x1,5	CC	3D
HV 2/4-6	Al	6,00	6,00	710	1100	140	0,33	0,28	2,3	D	CC	CC	CC	25	153	160	87	96	137	233	6,50	6-12	M20x1,5	CC	3D
HV 2/4-9	Al	9,00	-	1100	-	140	0,33	-	2,3	D	CC	CC	CC	25	153	160	87	96	137	273	7,30	6-12	M20x1,5	CC	3D
HV 6/4-11	Al	11,50	8,40	1430	1510	190	0,43	0,36	3,0	D	DD	DD	DD	26	153	160	91	114	150	265	8,95	6-12	M20x1,5	DD	3D
HV 6/4-18	Al	17,80	12,40	2200	2205	190	0,43	0,36	3,0	D	DD	DD	DD	26	153	160	91	114	150	310	10,56	6-12	M20x1,5	DD	3D
HV 12/4-18*	Al	18,00	12,00	2200	2112	450	0,83	0,69	3,3	E	100 105	180 140	17 13	40	156	210	86	170	190	329	16,90	9-14	M20x1,5	4xM16 4xM12	3D
HV 12/4-30*	Al	30,00	21,00	3750	3780	450	0,83	0,69	3,3	E	100 105	180 140	17 13	40	156	210	86	170	190	329	18,10	9-14	M20x1,5	4xM16 4xM12	3D
HV 12/4-42*	Al	42,00	28,00	5250	5040	450	0,83	0,69	3,3	E	100 105	180 140	17 13	40	156	210	86	170	190	329	19,20	9-14	M20x1,5	4xM16 4xM12	3D
HV 12/4-60*	Al	60,00	42,00	7750	7812	450	0,83	0,69	3,3	E	100	180	17	40	156	210	86	170	190	385	23,30	9-14	M20x1,5	4xM16	3D
HV 12/4-75*	Al	78,00	54,60	9800	9878	450	0,83	0,69	3,3	E	100	180	17	40	156	210	86	170	190	425	25,30	9-14	M20x1,5	4xM16	3D

Type	Frame	Working moment		Force		Power	Current		Starting-/ rated current	Drawing	Measure- ments										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		cmkg		N		W	A		IA/IN		mm										kg	mm			ATEX
		50Hz	60Hz	50Hz	60Hz		400V 50Hz	480V 60Hz			a	b	s	c	e	f	h	g	p	k					
HV 40/4-95*	GJS	95,00	95,00	12000	17280	940	1,60	1,33	6,6	F	140	190	18	20	200	225	120	230	251	398	49,00	8-13	M25x1,5	4xM16	3D
HV 40/4-120*	GJS	115,00	115,00	14500	20880	940	1,60	1,33	6,6	F	140	190	18	20	200	225	120	230	251	478	52,00	8-13	M25x1,5	4xM16	3D
HV 40/4-150*	GJS	144,00	144,00	17800	25630	940	1,60	1,33	6,6	F	140	190	18	20	200	225	120	230	251	478	60,00	8-13	M25x1,5	4xM16	3D
HV 40/4-200*	GJS	200,00	-	25000	-	940	1,60	-	6,6	F	140	190	18	20	200	225	120	230	251	538	62,00	8-13	M25x1,5	4xM16	3D
HV 70/4-200*	GJS	200,00	200,00	25000	36500	1700	2,60	2,17	5,8	F	155	225	22	25	260	300	145	280	290	543	86,10	13-18	M25x1,5	4xM20	3D
HV 75/4-300*	GJS	300,00	-	36500	-	1700	2,60	-	5,8	F	155	255	23,5	25	260	300	145	280	290	543	96,30	13-18	M25x1,5	4xM22	3D
HV 75/4-350*	GJS	350,00	-	43250	-	1700	2,60	-	5,8	F	155	255	23,5	25	260	300	145	280	290	543	100,50	13-18	M25x1,5	4xM22	3D
HV 100/4-450*	GJS	450,00	315,00	55700	56146	2000	4,00	3,33	8,4	F	180	280	26	28	310	330	170	320	330	748	148,00	13-18	M25x1,5	4xM24	3D
HV 180/4-500*	GJS	525,00	525,00	65000	90350	4200	7,10	5,92	6,5	F	200	320	28	35	355	390	195	375	392	710	234,00	13-18	M25x1,5	4xM27	3D
HV 180/4-700*	GJS	700,00	-	82000	-	4200	7,10	-	8,2	F	200	320	28	35	355	390	195	375	392	710	253,00	13-18	M25x1,5	4xM27	3D
HV 180/4-800*	GJS	800,00	-	94700	-	4200	7,10	-	8,2	F	200	320	28	35	355	390	195	375	392	863	263,00	13-18	M25x1,5	4xM27	3D
HV 201/4-900*	GJS	900,00	630,00	115300	116222	5800	9,30	7,75	10,2	G	125	380	39	35	341	460	213	420	424	947	350,00	18-25	M32x1,5	6xM36	3D



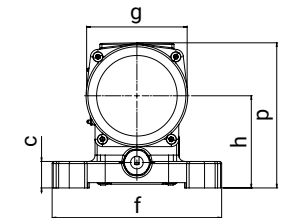
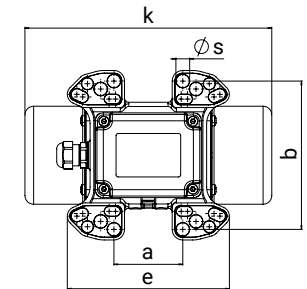
3 PHASE ELECTRIC VIBRATOR MOTORS 6-POLE

Synchronous speed 50 Hz 1000 min⁻¹, 60 Hz 1200 min⁻¹

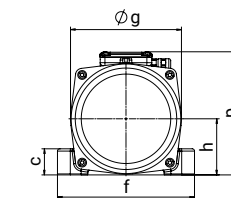
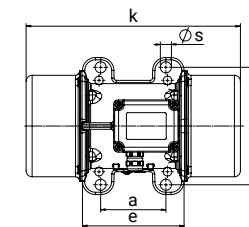
- AA-DD: Multi-hole pattern, see page 5
- 3D: These motors are also available in ATEX version for Zone 22 (Type designation HVe)
- * For some sizes there are several different Mounting bolt patterns available, suitable for our market competitors, see page 27



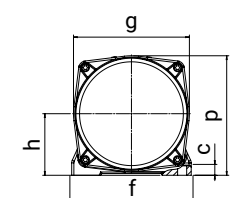
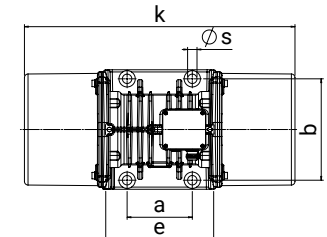
Typ HV 12



Drawing D



Drawing E



Drawing F

Type	Frame	Working moment		Force		Power	Current		Starting-/ rated current	Drawing	Measure- ments										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		cmkg		N		W	A		IA/IN		mm										kg	mm			ATEX
		50Hz	60Hz	50Hz	60Hz		400V 50Hz	480V 60Hz			a	b	s	c	e	f	h	g	p	k					
HV 6/6	AI	6,10	4,50	340	375	150	0,45	0,38	2,2	D	DD	DD	DD	26	153	160	91	114	150	265	7,85	6-12	M20x1,5	DD	3D
HV 6/6-18	AI	17,80	12,40	980	981	150	0,45	0,38	2,2	D	DD	DD	DD	26	153	160	91	114	150	310	10,56	6-12	M20x1,5	DD	3D
HV 12/6-42*	AI	42,00	28,00	2330	2141	300	0,65	0,54	3,1	E	100/ 105	180 140	17 13	40	156	210	86	170	190	329	19,20	9-14	M20x1,5 4xM12	4xM16	3D
HV 12/6-60*	AI	60,00	42,00	3440	3468	300	0,65	0,54	3,1	E	100	180	17	40	156	210	86	170	190	385	23,30	9-14	M20x1,5	4xM16	3D
HV 12/6-75*	AI	78,00	54,60	4300	4334	300	0,65	0,54	3,1	E	100	180	17	40	156	210	86	170	190	425	25,30	9-14	M20x1,5	4xM16	3D
HV 40/6-95*	GJS	95,00	95,00	5300	7632	780	1,72	1,46	4,8	F	140	190	18	20	200	225	120	230	251	398	49,00	13-18	M25x1,5	4xM16	3D
HV 40/6-120*	GJS	115,00	115,00	6400	9216	780	1,75	1,46	4,8	F	140	190	18	20	200	225	120	230	251	478	52,00	13-18	M25x1,5	4xM16	3D
HV 40/6-150*	GJS	144,00	144,00	7920	11405	780	1,75	1,46	4,8	F	140	190	18	20	200	225	120	230	251	478	60,00	13-18	M25x1,5	4xM16	3D
HV 40/6-200*	GJS	200,00	200,00	11200	16128	780	1,75	1,46	4,8	F	140	190	18	20	200	225	120	230	251	538	64,50	13-18	M25x1,5	4xM16	3D
HV 40/6-250*	GJS	250,00	250,00	13800	20000	780	1,75	1,46	4,8	F	140	190	18	20	200	225	120	230	251	538	67,00	13-18	M25x1,5	4xM16	3D
HV 40/6-300*	GJS	300,00	-	16500	-	780	1,75	-	4,8	F	140	190	18	20	200	225	120	230	251	608	77,00	13-18	M25x1,5	4xM16	3D
HV 40/6-340*	GJS	340,00	-	18500	-	780	1,75	-	4,8	F	140	190	18	20	200	225	120	230	251	608	79,00	13-18	M25x1,5	4xM16	3D
HV 70/6-300*	GJS	300,00	300,00	16500	23760	1700	3,30	2,75	5,5	F	155	225	22	25	260	300	145	280	290	543	100,00	13-18	M25x1,5	4xM20	3D
HV 70/6-400*	GJS	400,00	400,00	22000	31680	1700	3,30	2,75	5,5	F	155	225	22	25	260	300	145	280	290	543	100,00	13-18	M25x1,5	4xM20	3D
HV 75/6-500*	GJS	500,00	500,00	27150	39100	1700	3,30	2,75	5,5	F	155	255	23,5	25	260	300	145	280	290	664	119,00	13-18	M25x1,5	4xM22	3D
HV 75/6-600*	GJS	600,00	-	32300	-	1700	3,30	-	5,5	F	155	255	23,5	25	260	300	145	280	290	664	121,00	13-18	M25x1,5	4xM22	3D
HV 75/6-700*	GJS	700,00	-	37300	-	1700	3,30	-	5,5	F	155	255	23,5	25	260	300	145	280	290	720	136,00	13-18	M25x1,5	4xM22	3D

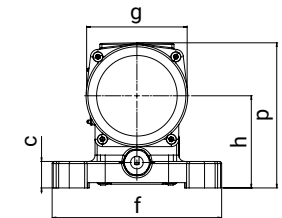
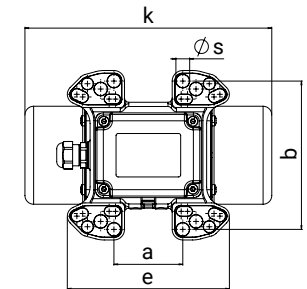
Type	Frame	Working moment		Force		Power	Current		Starting-/ rated current	Drawing	Measure- ments										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		50Hz	60Hz	50Hz	60Hz	W	400V 50Hz	480V 60Hz	IA/IN		a	b	s	c	e	f	h	g	p	k	kg	mm			ATEX
HV 100/6-600*	GJS	600,00	600,00	31500	47930	2650	5,50	4,58	5,5	F	180	280	26	28	310	330	165	320	330	748	158,40	13-18	M25x1,5	4xM24	3D
HV 100/6-700*	GJS	700,00	700,00	37800	54430	2650	5,50	4,58	5,5	F	180	280	26	28	310	330	165	320	330	748	175,00	13-18	M25x1,5	4xM24	3D
HV 100/6-850*	GJS	850,00	-	47200	-	2650	5,50	-	5,5	F	180	280	26	28	310	330	165	320	330	748	185,00	13-18	M25x1,5	4xM24	3D
HV 100/6-935*	GJS	935,00	-	51600	-	2650	5,50	-	5,5	F	180	280	26	28	310	330	165	320	330	748	190,00	13-18	M25x1,5	4xM24	3D
HV 180/6-1000*	GJS	1000,00	1000,00	56650	82550	4000	7,13	5,94	8,4	F	200	320	28	35	355	390	195	375	392	863	277,00	13-18	M25x1,5	4xM27	3D
HV 180/6-1150*	GJS	1150,00	1150,00	64000	94700	4000	7,13	5,94	8,4	F	200	320	28	35	355	390	195	375	392	863	278,00	13-18	M25x1,5	4xM27	3D
HV 180/6-1300*	GJS	1300,00	-	69000	-	4000	7,13	-	8,4	F	200	320	28	35	355	390	195	375	392	863	290,00	13-18	M25x1,5	4xM27	3D
HV 180/6-1400*	GJS	1400,00	-	79000	-	4000	7,13	-	8,4	F	200	320	28	35	355	390	195	375	392	863	308,00	13-18	M25x1,5	4xM27	3D
HV 180/6-1600*	GJS	1600,00	-	88000	-	4000	7,13	-	8,4	F	200	320	28	35	355	390	195	375	392	863	320,00	13-18	M25x1,5	4xM27	3D
HV 200/6-1800*	GJS	1800,00	1260,00	98200	98900	5650	10,00	8,33	8,3	G	125	380	39	35	341	460	213	420	425	947	385,00	18-25	M32x1,5	6xM36	3D
FV 200/6-2000*	GJS	2000,00	-	112400	-	5650	10,00	-	8,5	G	118	280	26	35	415	355	213	420	425	947	391,00	18-25	M32x1,5	6xM24	3D
HV 201/6-2000*	GJS	2000,00	1400,00	112400	113300	5650	10,00	8,33	8,5	G	125	380	39	35	341	460	213	420	425	947	424,00	18-25	M32x1,5	6xM36	3D
HV 201/6-2300*	GJS	2300,00	1750,00	126000	127000	5650	10,00	8,33	8,5	G	125	380	39	35	341	460	213	420	425	947	436,00	18-25	M32x1,5	6xM36	3D
FV 230/6-2500	GJS	2500,00	-	132500	-	8000	15,30	-	10,33	G	110	350	33	35	390	440	235	450	473,5	1032	498,00	18-25	M32x1,5	8xM30	TBD
FV 231/6-2500	GJS	2500,00	1800,00	132500	139000	8000	15,30	12,75	10,33	G	110	350	33	35	390	440	235	450	473,5	1032	509,00	18-25	M32x1,5	8xM30	TBD
FV 231/6-3000	GJS	3000,00	2000,00	158000	167000	8000	15,30	12,75	10,33	G	110	350	33	35	390	440	235	450	473,5	1032	509,00	18-25	M32x1,5	8xM30	TBD
FV 231/6-3200	GJS	3200,00	-	170000	-	8000	15,30	-	10,33	G	110	350	33	35	390	440	235	450	473,5	1032	521,00	18-25	M32x1,5	8xM30	TBD



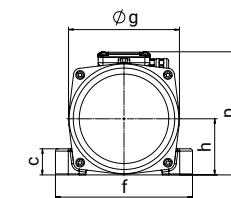
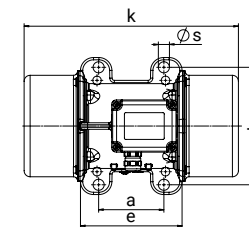
3 PHASE ELECTRIC VIBRATOR MOTORS 8-POLE

Synchronous speed 50 Hz 750 min⁻¹, 60 Hz 900 min⁻¹

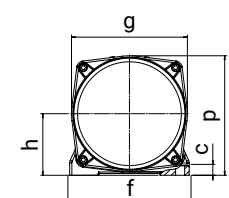
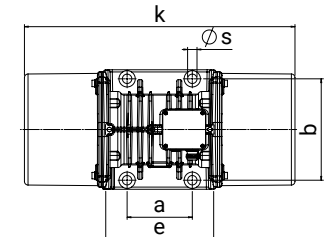
- AA-DD: Multi-hole pattern, see page 5
- 3D: These motors are also available in ATEX version for Zone 22 (Type designation HVe)
- * For some sizes there are several different Mounting bolt patterns available, suitable for our market competitors, see page 27



Drawing D



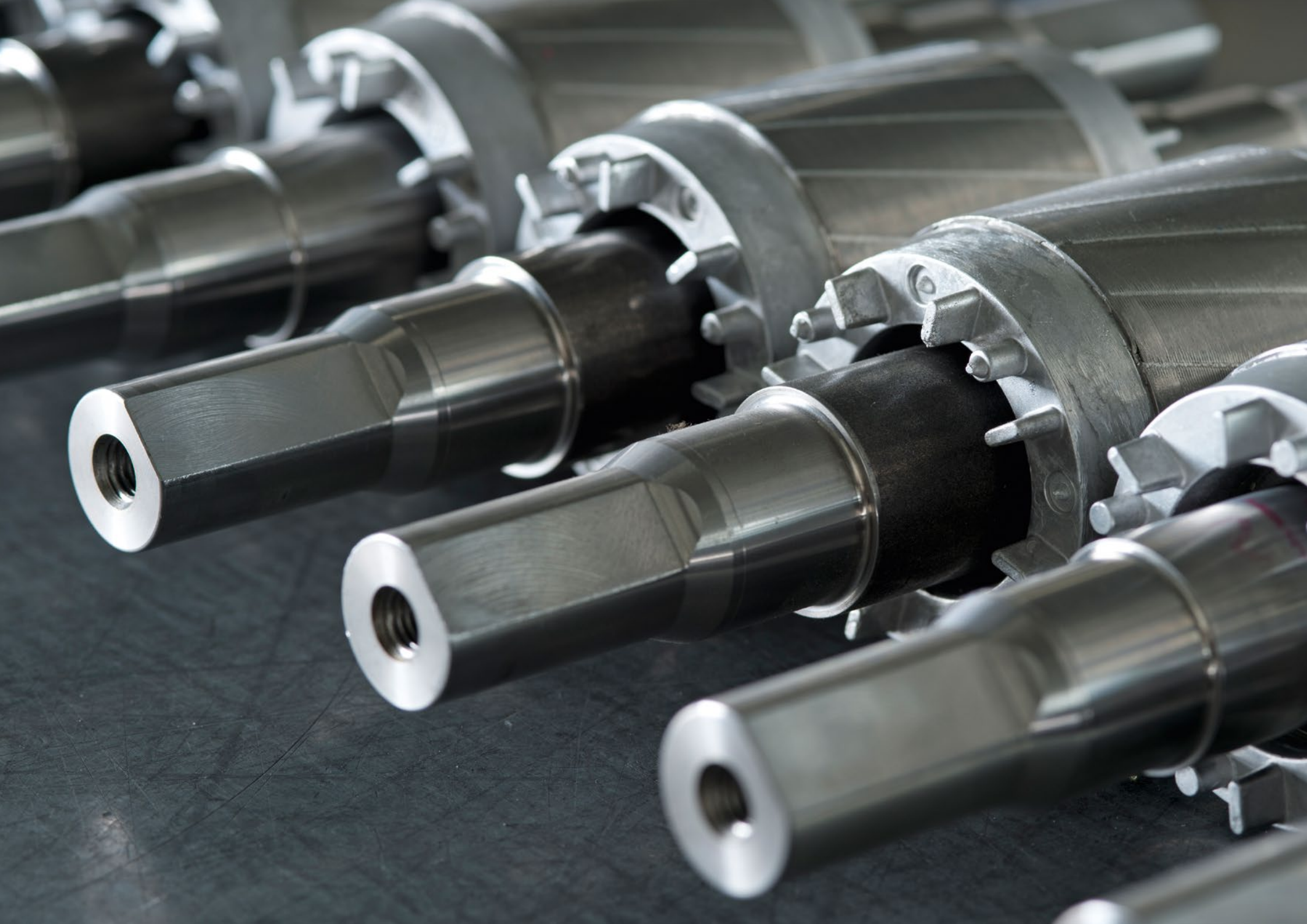
Drawing E



Drawing F

Type	Frame	Working moment		Force		Power	Current		Starting-/ rated current	Drawing	Measure- ments										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		cmkg		N		W	A		IA/IN		mm										kg	mm			ATEX
		50Hz	60Hz	50Hz	60Hz		400V 50Hz	480V 60Hz			a	b	s	c	e	f	h	g	p	k					
HV 6/8	AI	6,10	6,10	190	274	120	0,31	0,26	3,2	D	DD	DD	DD	26	153	160	91	114	150	265	7,85	6-12	M20x1,5	DD	3D
HV 6/8-18	AI	17,80	17,80	550	792	120	0,31	0,26	3,2	D	DD	DD	DD	26	153	160	91	114	150	310	10,56	6-12	M20x1,5	DD	3D
HV 12/8-42*	AI	42,00	42,00	1310	1886	250	0,60	0,50	3,3	E	100 105	180 140	17 13	40	156	210	86	170	190	329	19,20	9-14	M20x1,5	4xM16	3D
HV 12/8-60*	AI	60,00	60,00	1940	2794	250	0,60	0,50	3,3	E	100	180	17	40	156	210	86	170	190	385	23,30	9-14	M20x1,5	4xM16	3D
HV 12/8-75	AI	78,00	78,00	2450	3528	250	0,60	0,50	3,3	E	100	180	17	40	156	230	86	170	190	425	25,30	9-14	M20x1,5	4xM16	3D
HV 40/8-95*	GJS	95,00	95,00	3000	4320	540	0,65	0,54	3,3	F	140	190	18	20	200	225	120	230	251	398	49,00	13-18	M25x1,5	4xM16	3D
HV 40/8-120*	GJS	115,00	115,00	3620	5213	540	1,40	1,16	3,3	F	140	190	18	20	200	225	120	230	251	478	52,00	13-18	M25x1,5	4xM16	3D
HV 40/8-150*	GJS	144,00	144,00	4400	6336	540	1,40	1,16	3,3	F	140	190	18	20	200	225	120	230	251	478	54,00	13-18	M25x1,5	4xM16	3D
HV 40/8-200*	GJS	200,00	200,00	6300	9072	540	1,40	1,16	3,3	F	140	190	18	20	200	225	120	230	251	532	64,50	13-18	M25x1,5	4xM16	3D
HV 40/8-250*	GJS	250,00	250,00	7740	11146	540	1,40	1,16	3,3	F	140	190	18	20	200	225	120	230	251	532	67,00	13-18	M25x1,5	4xM16	3D
HV 40/8-300*	GJS	300,00	300,00	9100	13100	550	1,60	1,33	3,5	F	140	190	18	20	200	225	120	230	251	608	73,00	13-18	M25x1,5	4xM16	3D
HV 70/8-300*	GJS	300,00	300,00	9300	13392	1400	3,50	2,92	4,3	F	155	225	22,0	25	260	300	145	280	290	543	96,30	13-18	M25x1,5	4xM20	3D
HV 70/8-400*	GJS	400,00	400,00	12500	18000	1400	3,50	2,92	4,3	F	155	225	22,0	25	260	300	145	280	290	543	100,00	13-18	M25x1,5	4xM20	3D
HV 75/8-500*	GJS	500,00	500,00	15350	22100	1400	3,50	2,92	4,3	F	155	255	23,5	25	260	300	145	280	290	664	119,00	13-18	M25x1,5	4xM22	3D
HV 75/8-600*	GJS	600,00	600,00	18200	26208	1400	3,50	2,92	4,3	F	155	255	23,5	25	260	300	145	280	290	664	121,00	13-18	M25x1,5	4xM22	3D

Type	Frame	Working moment		Force		Power	Current		Starting-/ rated current	Drawing	Measure- ments										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		cmkg		N		W	A		IA/IN		mm										kg	mm			ATEX
		50Hz	60Hz	50Hz	60Hz		400V 50Hz	480V 60Hz			a	b	s	c	e	f	h	g	p	k					
HV 100/8-600*	GJS	600,00	600,00	17500	25200	2700	6,50	5,42	4,6	F	180	280	26	28	310	330	165	320	330	748	158,40	13-18	M25x1,5	4xM24	3D
HV 100/8-700*	GJS	700,00	700,00	21300	30672	2700	6,50	5,42	4,6	F	180	280	26	28	310	330	165	320	330	748	175,00	13-18	M25x1,5	4xM24	3D
HV 100/8-850*	GJS	850,00	850,00	26400	38016	2700	6,50	5,42	4,6	F	180	280	26	28	310	330	165	320	330	748	185,00	13-18	M25x1,5	4xM24	3D
HV 100/8-935*	GJS	935,00	935,00	29000	41760	2700	6,50	5,42	4,6	F	180	280	26	28	310	330	165	320	330	748	190,00	13-18	M25x1,5	4xM24	3D
HV 180/8-1000*	GJS	1000,00	1000,00	32230	46440	4000	8,43	5,94	7,1	F	200	320	28	35	355	390	195	375	392	863	277,00	13-18	M25x1,5	4xM27	3D
HV 180/8-1150*	GJS	1150,00	1150,00	37000	53300	4000	8,43	5,94	7,1	F	200	320	28	35	355	390	195	375	392	863	278,00	13-18	M25x1,5	4xM27	3D
HV 180/8-1300*	GJS	1300,00	1300,00	40000	57600	4000	8,43	5,94	7,1	F	200	320	28	35	355	390	195	375	392	863	290,00	13-18	M25x1,5	4xM27	3D
HV 180/8-1400*	GJS	1400,00	1400,00	44000	63360	4000	8,43	5,94	7,1	F	200	320	28	35	355	390	195	375	392	863	308,00	13-18	M25x1,5	4xM27	3D
HV 180/8-1600*	GJS	1600,00	1600,00	49000	70560	4000	8,43	5,94	7,1	F	200	320	28	35	355	390	195	375	392	863	320,00	13-18	M25x1,5	4xM27	3D
HV 200/8-1800*	GJS	1800,00	1800,00	56500	81360	6500	12,75	10,63	6,7	G	125	380	39	35	341	460	213	420	425	947	385,00	18-25	M32x1,5	6xM36	3D
HV 200/8-2000*	GJS	2000,00	2000,00	63200	91040	6500	12,75	10,63	6,7	G	125	380	39	35	341	460	213	420	425	947	405,00	18-25	M32x1,5	6xM36	3D
HV 201/8-2300*	GJS	2300,00	2300,00	70200	110140	6500	12,75	10,63	6,7	G	125	380	39	35	341	460	213	420	425	947	436,00	18-25	M32x1,5	6xM36	3D
FV 230/8-2500	GJS	2500,00	2500,00	76400	110000	7000	18,50	15,42	5,4	G	110	350	33	35	390	440	235	450	473,5	1032	498,00	18-25	M32x1,5	8xM30	TBD
FV 231/8-3000	GJS	3000,00	3000,00	89200	128400	7000	18,50	15,42	5,4	G	110	350	33	35	390	440	235	450	473,5	1032	498,00	18-25	M32x1,5	8xM30	TBD



SINGLE PHASE ELECTRIC VIBRATOR MOTORS

1~230V, 2-POLE

Synchronous speed 50Hz 3000 min⁻¹, 60Hz 3600 min⁻¹

Type	Frame	Working Moment		Force		Power	Current	Capacior	Starting-/ rated current	Drawing	Measure- ments										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		cmkg		N		W	A	µF	IA/IN		mm										kg	mm			ATEX
		50Hz	60Hz	50Hz	60Hz		230V 50Hz				a	b	s	c	e	f	h	g	p	k					
HV 0,1/2	Al	0,08	0,08	40	57,6	25	0,11	-	1,5	A	30	70	6	8	42	82	32,5	63	64	83	0,97	5-10	M16x1,5	4xM5	-
HV 0,4/2*	Al	0,40	0,40	200	290	50	0,17	2,00	2,4	B	AA	AA	AA	12	90	105	49	80	90	151	1,80	5-10	M16x1,5	AA	3D
HV 0,4/2-1*	Al	0,90	0,90	450	650	50	0,17	2,00	2,4	B	AA	AA	AA	12	90	105	49	80	90	151	2,10	5-10	M16x1,5	AA	3D
HV 1/2	Al	1,00	0,80	500	576	95	0,30	7,00	2,6	C	BB	BB	BB	20	90	125	72	80	113	161	3,40	5-10	M16x1,5	4x M8	3D
HV 2/2-4*	Al	3,70	3,70	1760	2534	160	0,50	12,00	3,3	D	CC	CC	CC	25	153	160	87	96	137	203	5,90	6-12	M20x1,5	CC	3D

1~230V, 4-POLE

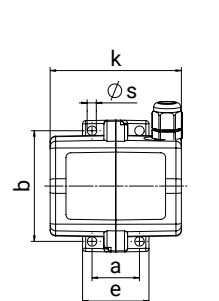
Synchronous speed 50Hz 1500 min⁻¹, 60Hz 1800 min⁻¹

Type	Frame	Working Moment		Force		Power	Current	Capacior	Starting-/ rated current	Drawing	Measure- ments								Weight	Cable Ø	Cable gland	Mounting bolts	HVe		
		cmkg		N		W	A	µF	IA/IN		mm								kg	mm			ATEX		
		50Hz	60Hz	50Hz	60Hz		230V 50Hz				a	b	s	c	e	f	h	g	p	k					
HV 2/4-4	AI	3,70	3,70	440	634	140	0,57	10,00	2,0	D	CC	CC	CC	25	153	160	87	96	137	203	5,90	6-12	M20x1,5	CC	3D

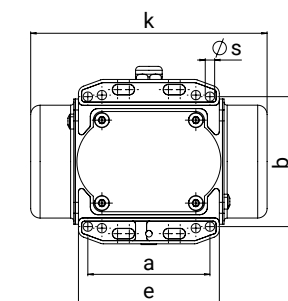
ELECTRIC VIBRATOR MOTORS FOR DC 12V/24V DC

Speed 3000 min⁻¹

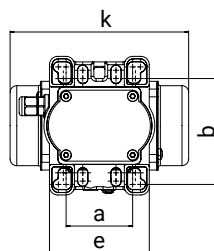
Type	Frame	Working moment	Force	Power	Voltage	Current	Frequency	Power Factor	Starting-/ rated current	Drawing	Measurements										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		cmkg	N	W	V	A	Hz	cos φ	IA/IN		mm										kg	mm			ATEX
						12V					a	b	s	c	e	f	h	g	p	k					
HV 2 GL**	Al	2,33	1100	72	12	6,00	-	-	3,3	D	CC	CC	CC	25	153	160	87	96	137	221	4,40	6-12	M20x1,5	CC	-
HV 2 GL**	Al	2,33	1100	96	24	4,00	-	-	3,3	D	CC	CC	CC	25	153	160	87	96	137	221	4,40	6-12	M20x1,5	CC	-
HV 2 GL Verst.**	Al	4,16	1980	95	24	4,00	-	-	3,3	D	CC	CC	CC	25	153	160	87	96	137	261	5,11	6-12	M20x1,5	CC	-



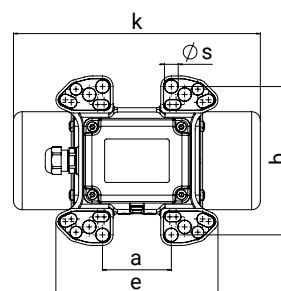
Drawing A



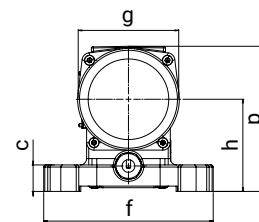
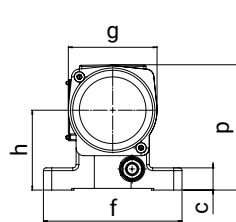
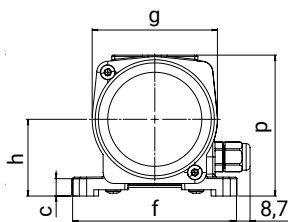
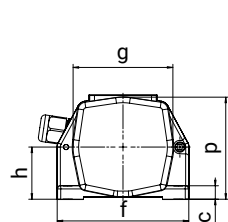
Drawing B



Drawing C



Drawing D



Single Phase Electric vibrator motors

- CC: Multi-hole pattern, see page 5
- * including 2 m cable with integrated capacitor

Electric Vibrator motors for DC

- CC-DD: Multi-hole pattern, see page 5
- ** including 2,5 m cable

EXPLOSION-PROOF VIBRATOR MOTORS 2G/D, 2D INCREASED SAFETY, 2-POLE

Synchronous speed 50Hz 3000 min⁻¹, 60Hz 3600 min⁻¹, Zone 1/21

Type	Frame	Working moment		Force		Force adjustment		Power	Current		Starting-/ rated current	Drawing	Measure- ments										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		cmkg		N		Steps		W	A		IA/IN		mm										kg	mm			ATEX
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		400V 50Hz	480V 60Hz			a	b	s	c	e	f	h	g	p	k					
HVE 2/2-4	AI	3,70	3,70	1760	2531	8	8	160	0,29	0,24	3,3	D	CC	CC	CC	25	153	160	87	96	137	203	5,90	6-12	M20x1,5	CC	2 G/D
HVE 2/2-6	AI	6,00	-	2860	-	9	-	160	0,29	-	3,3	D	CC	CC	CC	25	153	160	87	96	137	233	6,20	6-12	M20x1,5	CC	2 G/D

EXPLOSION-PROOF, 4-POLE

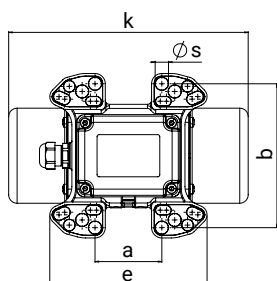
Synchrone Drehzahl 50Hz 1500 min⁻¹, 60Hz 1800 min⁻¹, Zone 21

Type	Frame	Working moment		Force		Force adjustment		Power	Current		Starting-/ rated current	Drawing	Measure- ments										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		cmkg		N		Steps		W	A		IA/IN		mm										kg	mm			ATEX
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz		400V 50Hz	480V 60Hz			a	b	s	c	e	f	h	g	p	k					
HVE 2/4-4	AI	3,70	3,70	440	634	8	8	140	0,29	0,24	2,0	D	CC	CC	CC	25	153	160	87	96	137	203	5,90	6-12	M20x1,5	CC	2 D
HVE 2/4-6	AI	6,00	6,00	710	1100	9	10	140	0,29	0,24	2,0	D	CC	CC	CC	25	153	160	87	96	137	233	6,50	6-12	M20x1,5	CC	2 D
HVE 2/4-9	AI	9,00	-	1100	-	10	-	140	0,29	0,24	2,0	D	CC	CC	CC	25	153	160	87	96	137	273	7,30	6-12	M20x1,5	CC	2 D

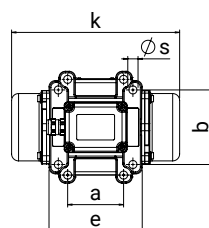
HIGH-FREQUENCY ELECTRIC VIBRATORS 100HZ, 200HZ 2-, 4-, UND 8-POLE

Synchronous speed 6000 min-1 / 3000 min-1

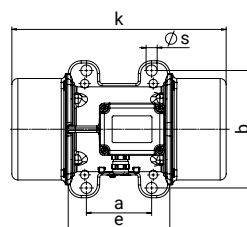
Type	Frame	Speed	Force	Power	Voltage	Current	Frequency	Power Factor	Starting-/ rated current	Drawing	Measure- ments										Weight	Cable Ø	Cable gland	Mounting bolts	HVe
		min-1	N	W	V	A	Hz	cos φ	IA/IN		mm										kg	mm			ATEX
											a	b	s	c	e	f	h	g	p	k					
HF 2/2	Al	6000	3520	320	230	0,91	100	0,84	4,5	D	CC	CC	CC	25	153	160	87	96	137	203	4,90	6-12	M20x1,5	CC	-
HF 2/4	Al	6000	3520	520	250	1,85	200	0,84	4,5	D	CC	CC	CC	25	153	160	87	96	137	203	4,90	6-12	M20x1,5	CC	-
HF 6/4	Al	6000	3050	475	250	1,10	200	0,78	5,5	D	DD	DD	DD	25	157	160	91	114	150	265	7,40	6-12	M20x1,5	DD	-
HF 6/4-6100	Al	6000	6100	475	250	1,10	200	0,78	5,5	D	DD	DD	DD	25	157	160	91	114	150	265	7,40	6-12	M20x1,5	DD	-
HF 6/8	Al	3000	3050	690	250	1,60	200	0,70	5,5	D	DD	DD	DD	25	157	160	91	114	150	265	7,60	6-12	M20x1,5	DD	-
HF 8	Al	6000	14000	650	250	2,00	200	0,74	5,5	J	90/ 120	154/ 120	16/ 13	90/ 120	150	180	61	118	162	271	12,50	8-13	M20x1,5	M16/ M12	-
HF 15	Al	6000	20000	1200	250	3,20	200	0,70	6,5	E	100	180	18	40	140	215	70	135	180	302	17,00	8-13	M20x1,5	4xM16	-



Drawing D



Drawing J



Drawing E

Explosion-proof vibrator motors 2G/D, 2D

- CC: Multi-hole pattern, see page 5

High-frequency electric vibrators

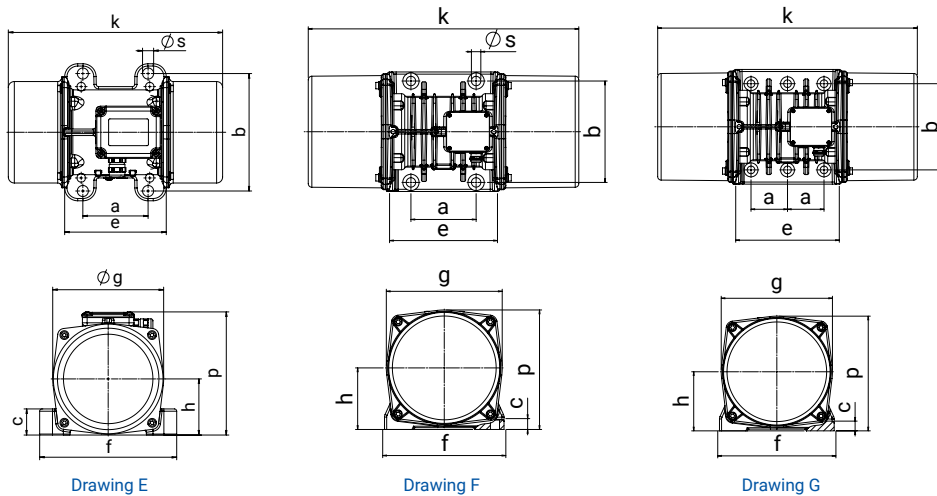
- CC-DD: Multi-hole pattern, see page 5



ALTERNATIVE MOUNTING BOLT PATTERNS

For some sizes there are several different Mounting bolt patterns available, suitable for our market competitors

- The technical data correspond to those of the HV vibrator motors



Type	Frame	Drawing	Measure- ments						Mounting bolts
			mm						
			a	b	s	c	e	f	
IV 12	GJS	F	120	170	17	40	156	210	4xM16
FV 40	GJS	F	140	170	18	20	200	225	4xM16
IV 40	GJS	F	120	170	18	20	200	225	4xM16
INV 40	GJS	F	150	185	18	20	200	225	4xM16
FV 75	GJS	G	83	230	22	25	260	300	6xM20
FV 76	GJS	F	166	230	22	25	260	300	4xM20
INV 75	GJS	G	160	210	18	25	260	300	4xM16
FV 100	GJS	G	105	248	22	28	310	330	6xM20
FV 101	GJS	G	105	248	26	28	310	330	4xM24
INV 100	GJS	F	170	270	26	28	310	330	4xM24
FV 180	GJS	G	118	280	26	35	355	340	6xM24
FV 181	GJS	G	118	280	26	35	355	370	6x M24
INV 180	GJS	G	124	305	26	35	355	390	6xM24
FV 200 / 201	GJS	G	118	280	26	35	415	355	6xM24
INV 200	GJS	G	124	305	26	35	415	355	6xM24
INV 201	GJS	G	117,5	394	26	35	341	460	6xM24
INV 202	GJS	G	117,5	394	33	35	341	460	6xM36

SPLIT PROTECTIVE COVERS

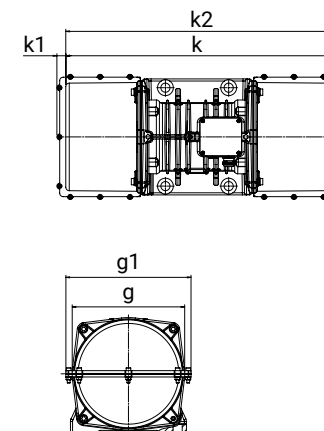
for tight installation situations some vibrator motors are available with split protective covers and protection class IP 66

- One or two split covers are available upon request be delivered per motor
- Other types on request
- The technical data correspond to those of the HV vibration motors

* 1 means one split hood per motor

* 2 means two split hoods per motor

Type	Frame	Measurements				
		g	g1	mm k	k1	k2
HV 40 (-150) GTH 1/2*	GJS	230,0	265,3	478,6	25,5	530,6
HV 40 (-200) GTH 1/2*	GJS	230,0	268,0	535,0	23,0	581,0
HV 40 (-250) GTH 1/2*	GJS	230,0	268,0	535,0	23,0	581,0
HV 70 (-400) GTH 1/2*	GJS	280,0	316,0	543,0	25,5	594,0
HV 75 (-500) GTH 1/2*	GJS	280,0	316,0	670,0	24,0	716,0
HV 75 (-600) GTH 1/2*	GJS	280,0	316,0	670,0	24,0	716,0
HV 75 (-700) GTH 1/2*	GJS	280,0	312,5	720,0	21,5	763,0
HV 100 GTH 1/2*	GJS	320,0	356,0	747,0	23,0	793,0
HV 180 GTH 1/2*	GJS	375,0	400,0	863,0	26,0	912,0
HV 200/201 GTH 1/2*	GJS	420,0	457,5	963,0	23,5	1010,0



PROTECTIVE COVERS MADE OF STAINLESS STEEL

Deep-drawn protective covers, made from electrically polished stainless steel (AL306) are available for some sizes (standard for sizes HV 0.4, HV 1, HV 2, HV 6 and HV 40)

- The technical data correspond to those of the HV vibrator motors

Type	
	k
HV 70 (-400) VA	541
HV 75 (-600) VA	667
HV 75 (-700) VA	749
HV 100 VA	749
HV 180 VA	867

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