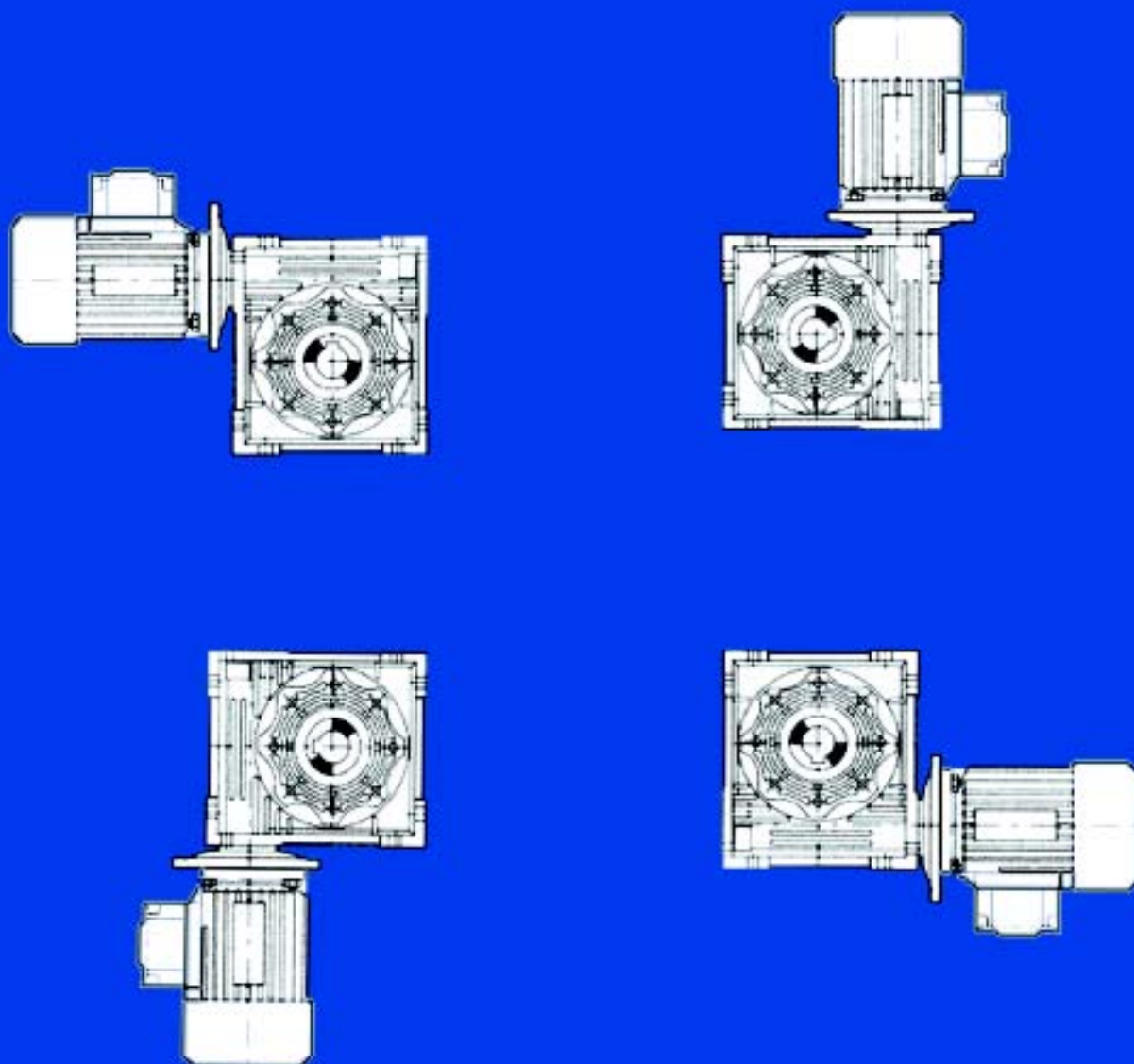
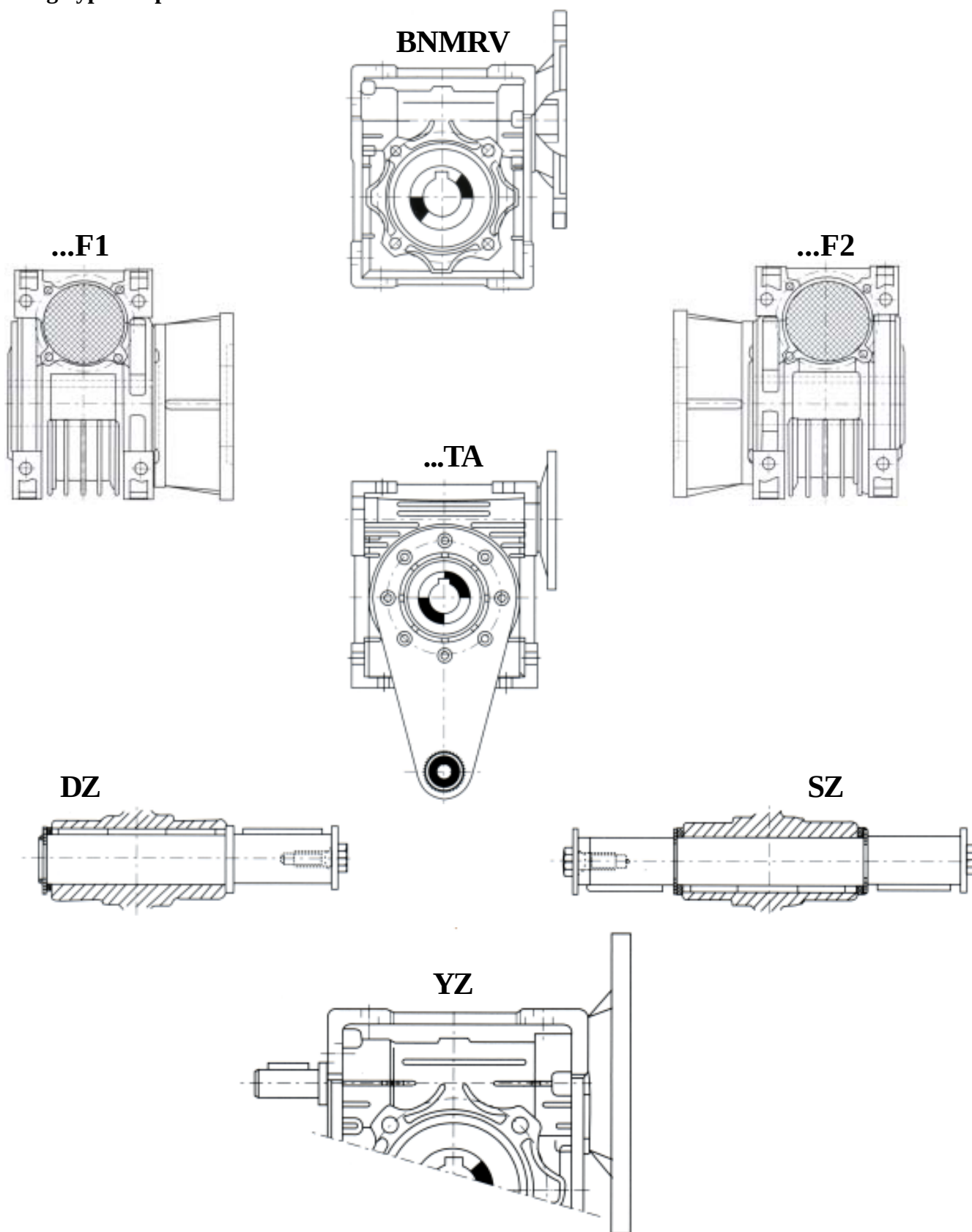


UNIVERSAL MOUNT REDUCER



AMETRIC® UNIVERSAL MOUNT REDUCER

5.1 Mounting Types - Options



5.2 Using and Maintaining

Lubrication Type

Reference cencie of worm slide (m/s)	Lubrication Type
< 2.2	G-N680W (G-N460W)
>2.5-5	G-N320W
>5-12	G-N220W

No. of starts per hour <10

Nature of load generated by driven machine	Hours running per day		
	< 2	2-8	8-16
Uniform	sf = 0.8	sf = 1	sf = 1.25
Moderate shock	sf = 1	sf = 1.25	sf = 1.5
Heavy shock	sf = 1.25	sf = 1.5	sf = 1.75

No. of starts per hour >10

Nature of load generated by driven machine	Hours running per day		
	< 2	2-8	8-24
Uniform	sf = 1	sf = 1.25	sf = 1.75
Moderate shock	sf = 1.5	sf = 1.75	sf = 2
Heavy shock	sf = 1.75	sf = 2	sf = 2.25

- Do not apply pressure to output part and box when mounting it.
- When using for the first time, you must replace lubrication oil after running 400 hours. After this, replace lubrication oil per running 4000 hours.
- Keep coaxial degree and vertical degree in just level when conjoining reducer with other device.
- Keep plenty of lubrication oil in the reducer and check it often.
- When oil is low, add more lubrication oil. When oil looks bad, change lubrication oil.
- Reducer radiates heat more efficiently when kept clean.

AMETRIC® UNIVERSAL MOUNT REDUCER

5.3 Rating Table

Service Factor = 1

i		n2	n1 = 1400										
			25	30	40	50	63	75	90	110	130	150	185
7.5	KW1	187	0.25	0.41	0.90	1.58	2.84	4.06	6.3	10.4	16.1	25.8	39.1
	M2		11	18	40	71	128	185	290	480	750	1200	1740
10	KW1	140	0.21	0.32	0.69	1.23	2.19	3.25	5.11	8.57	13.5	20.2	30
	M2		12	18	40	72	130	195	310	520	820	1240	1800
15	KW1	93	0.15	0.23	0.48	0.88	1.65	2.30	4.09	6.48	10.3	13.9	21
	M2		12	18	40	74	140	200	360	570	920	1250	1760
20	KW1	70	0.12	0.18	0.37	0.68	1.22	1.88	3.10	4.83	7.76	11	19.6
	M2		12	18	39	73	135	210	355	560	910	1300	2270
25	KW1	56	-	0.18	0.30	0.54	0.98	1.47	2.43	4.12	6.49	8.4	13.8
	M2		-	21	38	70	130	200	340	590	930	1200	1950
30	KW1	47	0.09	0.15	0.31	0.57	1.06	1.48	2.57	3.90	6.35	7	14
	M2		13	20	45	84	160	230	410	630	1040	1200	2200
40	KW1	35	0.08	0.11	0.23	0.42	0.76	1.12	1.76	2.87	4.93	7.3	12.1
	M2		13	18	41	76	145	220	360	610	1050	1550	2570
50	KW1	28	0.06	0.09	0.81	0.34	0.60	0.89	1.38	2.35	3.83	5.4	9.3
	M2		11	17	39	73	135	210	340	600	980	1400	2370
60	KW1	23	0.04	0.08	0.15	0.28	0.51	0.75	1.13	1.9	3.05	4.2	7.6
	M2		10	16	36	68	130	200	320	560	900	1260	2270
80	KW1	18	-	0.05	0.12	0.22	0.39	0.58	0.83	1.34	2.26	3.1	5.6
	M2		-	13	33	65	122	190	285	490	840	1150	2100
100	KW1	14	-	-	0.09	0.16	0.34	0.48	0.67	1.07	1.70	2.29	4.1
	M2		-	-	29	55	118	180	270	460	740	1000	1810

Note: @ 1750 1.15 x Rating@1400

n1 = Input Speed (rpm)

n2 = Output Speed (rpm)

AMETRIC® UNIVERSAL MOUNT REDUCER

with 4 poles, 1400rpm motor

Type	i	n2	kw1	M2	Sf
25	7.5	186.7	0.09	4	2.8
	10	140	0.09	5	2.3
	15	93.3	0.09	7	1.6
	20	70	0.09	9	1.3
	30	46.7	0.09	12	1
	40	35	0.09	15	0.9
	50	28	0.06	12	0.9
	60	23.3	0.06	14	0.7

Type	i	n2	kw1	M2	Sf
50	7.5	186.7	1.5	68	1.5
	10	140	1.5	88	1.2
	15	93.3	1.5	126	0.9
	20	70	1.5	166	0.8
	25	56	1.1	146	0.9
	30	46.7	1.1	167	1
	40	35	1.1	207	0.7
	50	28	.55*	124	1.1
	60	23.3	.55*	140	0.9
	80	17.5	0.37	115	1.1
	100	14	0.37	129	0.9

Type	i	n2	kw1	M2	Sf
90	7.5	186.7	7.5	343	1.8
	10	140	7.5	453	1.5
	15	93.3	7.5	664	1.1
	20	70	7.5	864	0.8
	25	56	7.5	1074	0.8
	30	46.7	5.5	900	1.1
	40	35	5.5	1171	0.9
	50	28	5.5	1379	0.7
	60	23.3	4	1179	0.8
	80	17.5	2.2	816	1
	100	14	2.2	966	0.8

Type	i	n2	kw1	M2	Sf
30	7.5	186.7	0.18	7	1.9
	10	140	0.18	9	1.5
	15	93.3	0.18	13	1
	20	70	0.18	17	0.8
	25	56	0.18	21	1
	30	46.7	0.18	24	0.8
	40	35	0.12	19	0.9
	50	28	0.12	23	0.8
	60	23.3	0.09	19	0.9
	80	17.5	0.06	14	0.9

Type	i	n2	kw1	M2	Sf
63	7.5	186.7	4	182	1
	10	140	3	180	1.1
	15	93.3	3	261	0.8
	20	70	2.2	240	0.8
	25	56	1.5	205	1
	30	46.7	2.2	337	0.7
	40	35	1.1	216	1
	50	28	1.1	264	0.8
	60	23.3	1.1	279	0.7
	80	17.5	0.55	180	1
	100	14	0.55	206	0.9

Type	i	n2	kw1	M2	Sf
110	7.5	186.7	15	690	1.7
	10	140	15	870	1.4
	15	93.3	11	945	1.25
	20	70	11	1250	1
	25	56	7.5	1040	1.1
	30	46.7	7.5	1200	0.9
	40	35	7.5	1550	1
	50	28	5.5	1400	1
	60	23.3	4	1180	1
	80	17.5	3	1130	1
	100	14	2.2	975	1

Type	i	n2	kw1	M2	Sf
40	7.5	186.7	0.37	16	1.6
	10	140	0.37	27	1.3
	15	93.3	0.37	28	0.9
	20	70	0.37	39	1
	25	56	0.37	47	0.8
	30	46.7	0.37	53	0.8
	40	35	0.25	44	0.9
	50	28	0.22	47	0.8
	60	23.3	0.18	43	0.8
	80	17.5	0.12	34	1
	100	14	0.12	38	0.8

Type	i	n2	kw1	M2	Sf
75	7.5	186.7	4	180	1.3
	10	140	4	236	1.1
	15	93.3	4	342	0.9
	20	70	4	458	0.8
	25	56	3	420	0.8
	30	46.7	3	479	0.9
	40	35	2.2	433	0.8
	50	28	2.2	492	0.6
	60	23.3	1.5	424	0.8
	80	17.5	1.1	365	0.8
	100	14	0.75	302	0.9

Type	i	n2	kw1	M2	Sf
130	7.5	186.7	22	980	1.75
	10	140	22	1320	1.35
	15	93.3	18.5	1550	1.1
	20	70	18.5	2140	1
	25	56	11	1560	1.25
	30	46.7	11	1760	1.3
	40	35	11	2320	1.1
	50	28	7.5	1920	1.2
	60	23.3	7.5	2210	1
	80	17.5	5.5	2070	1
	100	14	4	1760	1

Type	i	n2	kw1	M2	Sf
150	7.5	186.7	0.75	33	1.7
	10	140	0.75	42	1.3
	15	93.3	0.75	58	1
	20	70	0.75	81	0.9
	25	56	0.55	71	1
	30	46.7	0.55	81	1
	40	35	0.55	101	0.8
	50	28	0.37	80	0.9
	60	23.3	0.37	89	0.8
	80	17.5	0.25	72	0.9
	100	14	0.18	60	0.9

Type	i	n2	kw1	M2	Sf
185	7.5	186.7	7.5	345	1.4
	10	140	7.5	455	1.1
	15	93.3	5.5	484	1.2
	20	70	5.5	638	0.8
	25	56	5.5	790	0.8
	30	46.7	4	647	0.9
	40	35	3	638	0.9
	50	28	3	767	0.8
	60	23.3	2.2	648	0.8
	80	17.5	1.5	548	0.8
	100	14	1.1	473	0.9

i = Nominal Ratio

n1 = Input Speed (rpm)

n2 = Output Speed (rpm)

kw1 = Motor Power

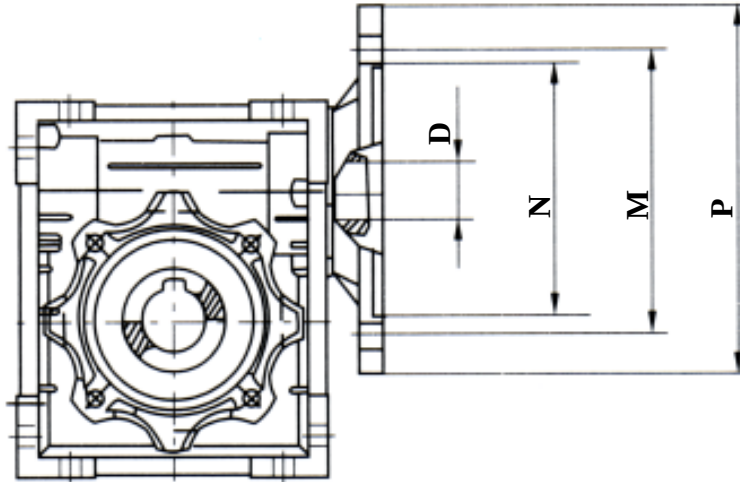
M2 = Output Torque (Nm)

sf = Service Factor

Note: @ 1750 1.15 x Rating@1400

AMETRIC® UNIVERSAL MOUNT REDUCER

5.4 Dimensions

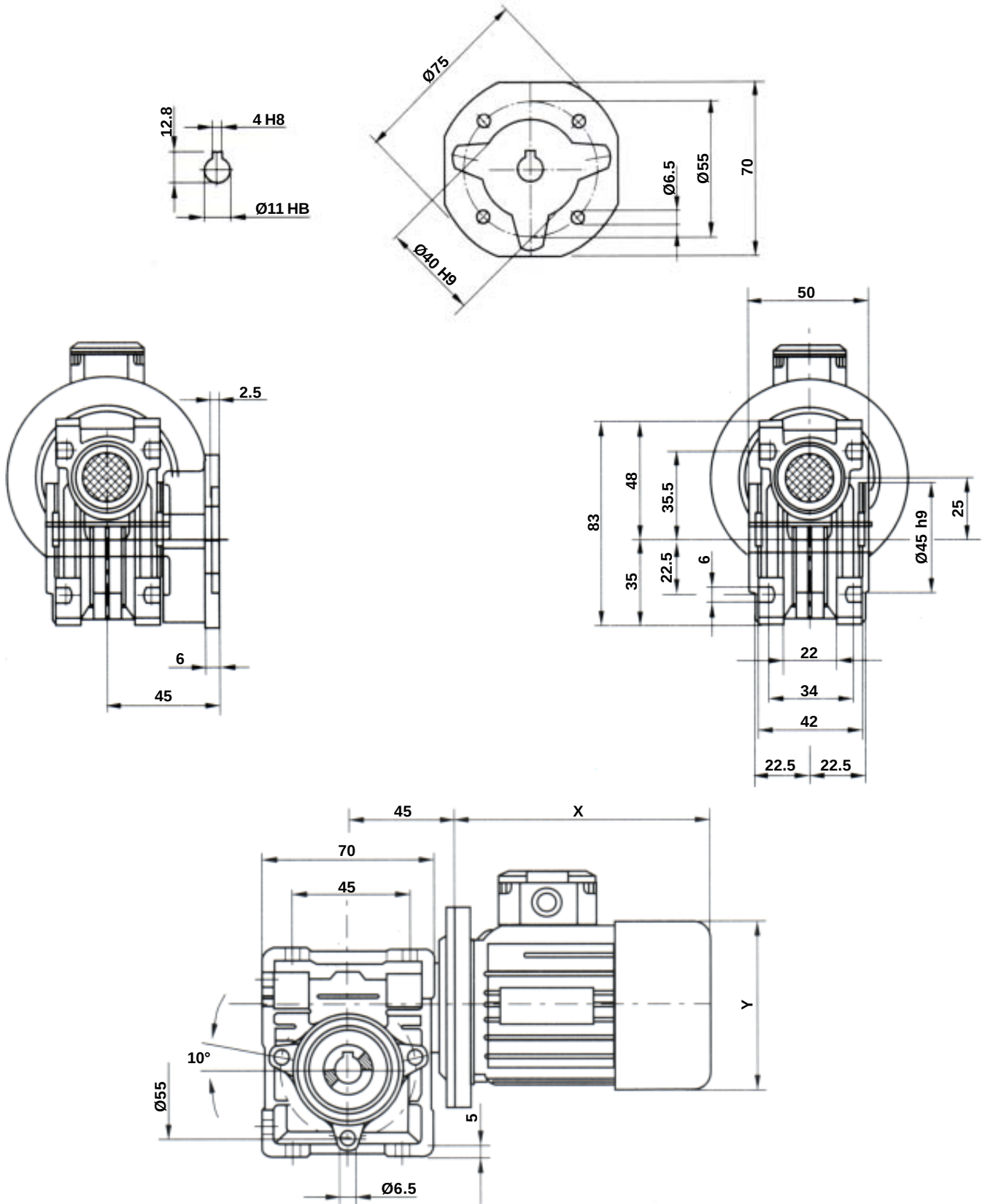


BNMRV IEC Motor Flange Dimensions

Type	Flange type	N	M	P	i/Nominal ratio										
					7.5	10	15	20	25	30	40	50	60	80	100
					D										
25	56B14	50	65	80	9	9	9	9	-	9	9	9	9	-	-
30	63B5	95	115	140	11	11	11	11	11	11	11	11	-	-	-
	63B14	60	75	90	11	11	11	11	11	11	11	11	-	-	-
	56B14	50	65	80	9	9	9	9	9	9	9	9	9	9	-
40	71B5	110	130	160	14	14	14	14	14	14	14	14	-	-	-
	63B5	95	115	140	11	11	11	11	11	11	11	11	11	11	11
50	80B5	130	165	200	19	19	19	19	19	19	19	-	-	-	-
	71B5	110	130	160	14	14	14	14	14	14	14	14	14	14	-
	63B5	95	115	140	-	-	-	-	-	-	11	11	11	11	11
63	90B35	130	165	200	24	24	24	24	24	24	24	-	-	-	-
	80B5	130	165	200	19	19	19	19	19	19	19	19	19	-	-
	71B5	110	130	160	-	-	-	-	-	-	14	14	14	14	14
75	100/112B35	180	215	250	28	28	28	28	-	28	-	-	-	-	-
	90B35	130	165	200	24	24	24	24	24	24	24	24	24	-	-
	80B5	130	165	200	-	-	-	-	-	-	19	19	19	19	19
90	100/112B35	180	215	250	28	28	28	28	28	28	28	28	-	-	-
	90B35	130	165	200	24	24	24	24	24	24	24	24	24	24	-
	80B5	130	165	200	-	-	-	-	-	-	19	19	19	19	19
110	132B35	230	265	300	38	38	38	38	38	-	-	-	-	-	-
	100/112B35	180	215	250	28	28	28	28	28	28	28	28	28	-	-
	90B35	130	165	200	-	-	-	-	24	24	24	24	24	24	24
130	132B35	230	265	300	38	38	38	38	38	38	38	38	-	-	-
	100/112B35	180	215	250	-	-	-	-	28	28	28	28	28	28	28
	90B35	130	165	200	-	-	-	-	-	-	24	24	24	24	24
150	160B35	250	300	350	42	42	42	42	-	-	-	-	-	-	-
	132B35	230	265	300	38	38	38	38	38	38	38	38	-	-	-
	100/112B35	180	215	250	28	28	28	28	28	28	28	28	28	28	28
185	180B35	250	300	350	48	48	48	48	-	-	-	-	-	-	-
	160B35	250	300	350	42	42	42	42	42	42	42	42	-	-	-
	132B35	230	265	300	38	38	38	38	38	38	38	38	38	38	38
	100/112B35	180	215	250	28	28	28	28	28	28	28	28	28	28	28

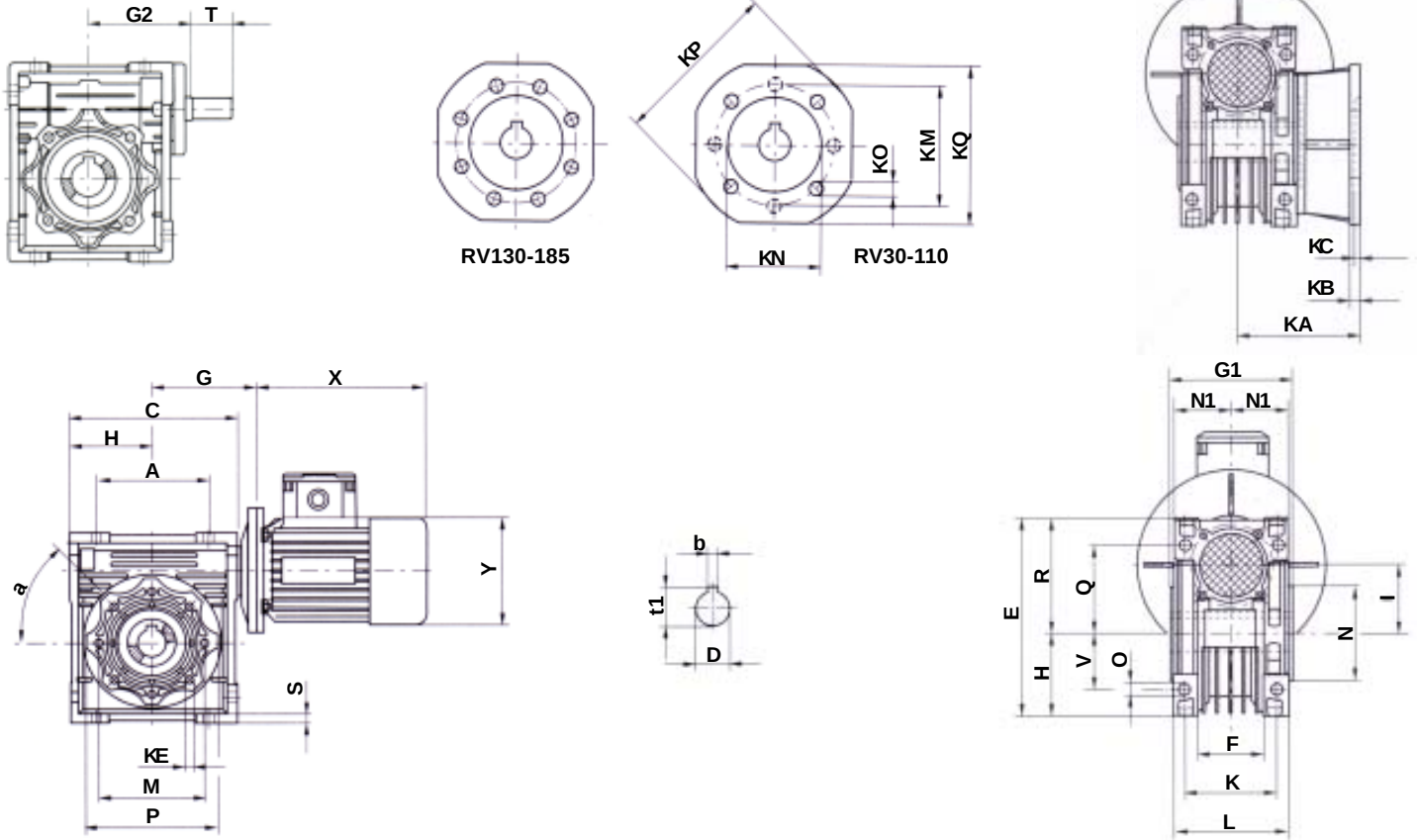
AMETRIC® UNIVERSAL MOUNT REDUCER

BNMRV 25



AMETRIC® UNIVERSAL MOUNT REDUCER

Dimensions



Type	Dimensions																		
	A	C	D (H7)	E	F	G	H	I	L	M	N (h8)	O	P	Q	R	S	T	V	K
30	54	80	14	97	32	55	40	30	56	65	54	6.5	75	44	57	5.5	20	27	44
40	70	101	18	121.5	43	70	50	40	71	75	60	6.5	87	55	71.5	6.5	23	35	60
50	80	121.5	25	145	49	80	60	50	85	85	70	8.5	100	64	84	7	30	40	70
63	100	147.5	25	174	67	95	72	63	103	95	80	8.5	110	80	102	8	40	50	85
75	120	174	28	205	72	112.5	86	75	113	115	95	11	140	93	119	10	50	60	90
90	140	208	35	238	72	130	103	90	130	130	110	13	160	102	135	11	50	70	100
110	170	252.5	42	294		160	127.5	110	142	165	130	14	200	125	167.5	15	60	85	115
130	200	292.5	45	335	79	180	147.5	130	155	215	180	16	250	140	187.5	15	80	100	120
150	240	340	50	400		210	170	150	185	215	180	18	250	180	230	18	80	120	145
185	310	412	60	472		248	207	185	220	265	230	22	300	213	265	25	80	155	175

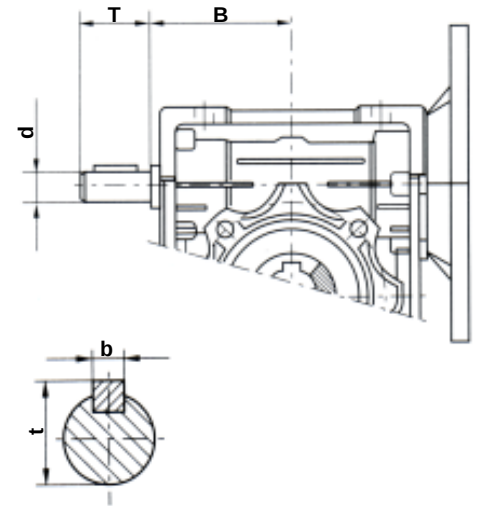
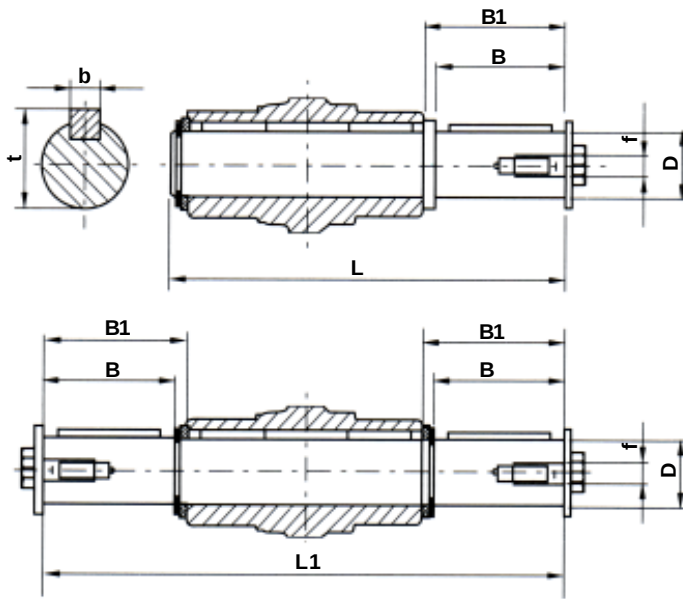
Dimensions																
Type	G1	G2	N1	KA	KB	KC	KE	a	KM	KN (H8)	KO	KP	b	t1	X	Y
30	63	51	29	54.5	6	4	M6X11 (n4)	0°	68	50	6.5 (4/90°)	80	5	16.3	See overall dimensions for electric motor.	
40	78	60	36.5	67	7	4	M6X8 (n4)	45°	87	60	9 (4/90°)	110	6	20.8		
50	92	74	43.5	90	9	5	M8X10 (n4)	45°	90	70	11 (4/90°)	125	8	28.3		
63	112	90	53	82	10	6	M8X14 (n8)	45°	150	115	11 (4/90°)	180	8	28.3		
75	120	105	57	111	13	6	M8X14 (n8)	45°	165	130	14 (4/90°)	200	8	31.3		
90	140	125	67	111	13	6	M10X18 (n8)	45°	175	152	14 (4/90°)	210	10	38.3		
110	155	142	74	139	15	6	M10X18 (n8)	45°	220	170	14 (8/90°)	270	12	45.3		
130	170	162	81	151.5	15	6	M12X20 (n8)	45°	255	180	16 (8/45°)	320	14	48.8		
150	200	210	96	155	15	7	M12X21 (n8)	45°	255	180	16 (8/45°)	320	14	53.8		
185	240	240	116	190	22	7	M16X25 (n8)	45°	350	280	22 (8/45°)	400	18	64.4		

Overall Dimensions for Electric Motor

	56		63		71		80		90		100		112	132		160		180	
(KW)	0.06	0.09	0.12	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22
X	150		207		225		245		260	285	320		340	395	435	490	535	560	600
Y	120		130		145		165		175		205		230	270		325		360	

AMETRIC® UNIVERSAL MOUNT REDUCER

Dimensions



Single/Double Output Shaft

Type	D (h6)	B	B1	L	L1	f	b	t
25	11	23	25.5	81	101	-	4	12.5
30	14	30	32.5	102	128	M6	5	16
40	18	40	43	128	164	M6	6	20.5
50	25	50	53.5	153	199	M10	8	28
63	25	50	43.5	173	219	M10	8	28
75	28	60	63.5	192	247	M10	8	31
90	35	80	84	234	308	M12	10	38
110	42	80	84.5	249	324	M16	12	45
130	45	80	85	265	340	M16	14	48.5
150	50	102	110	324	420	M20	14	53.5
185	60	112	120	374	480	M20	18	64

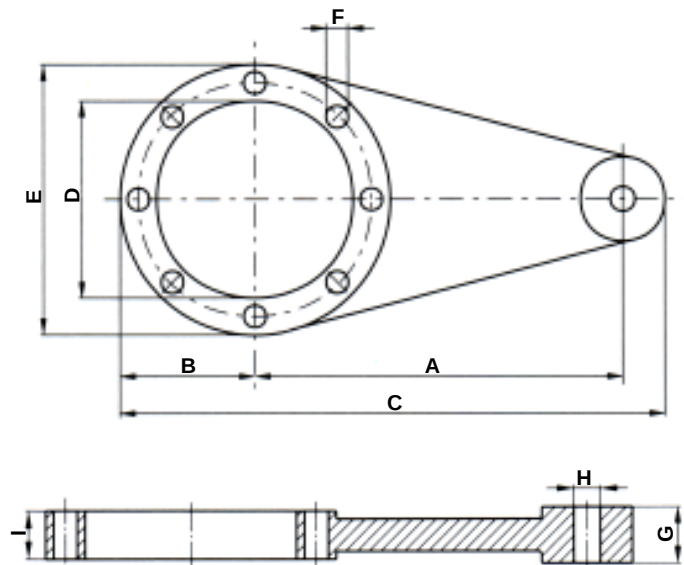
Extended Worm Shaft

Type	B	d (j6)	T	b	t
30	45	9	20	3	10.5
40	53	11	23	4	12.5
50	64	14	30	5	16
63	75	19	40	6	21.5
75	90	24	50	8	27
90	108	24	50	8	27
110	135	28	60	8	31
130	155	30	80	8	33
150	210	35	80	10	38
185	240	40	80	12	43

Speed is the same as electric motor.

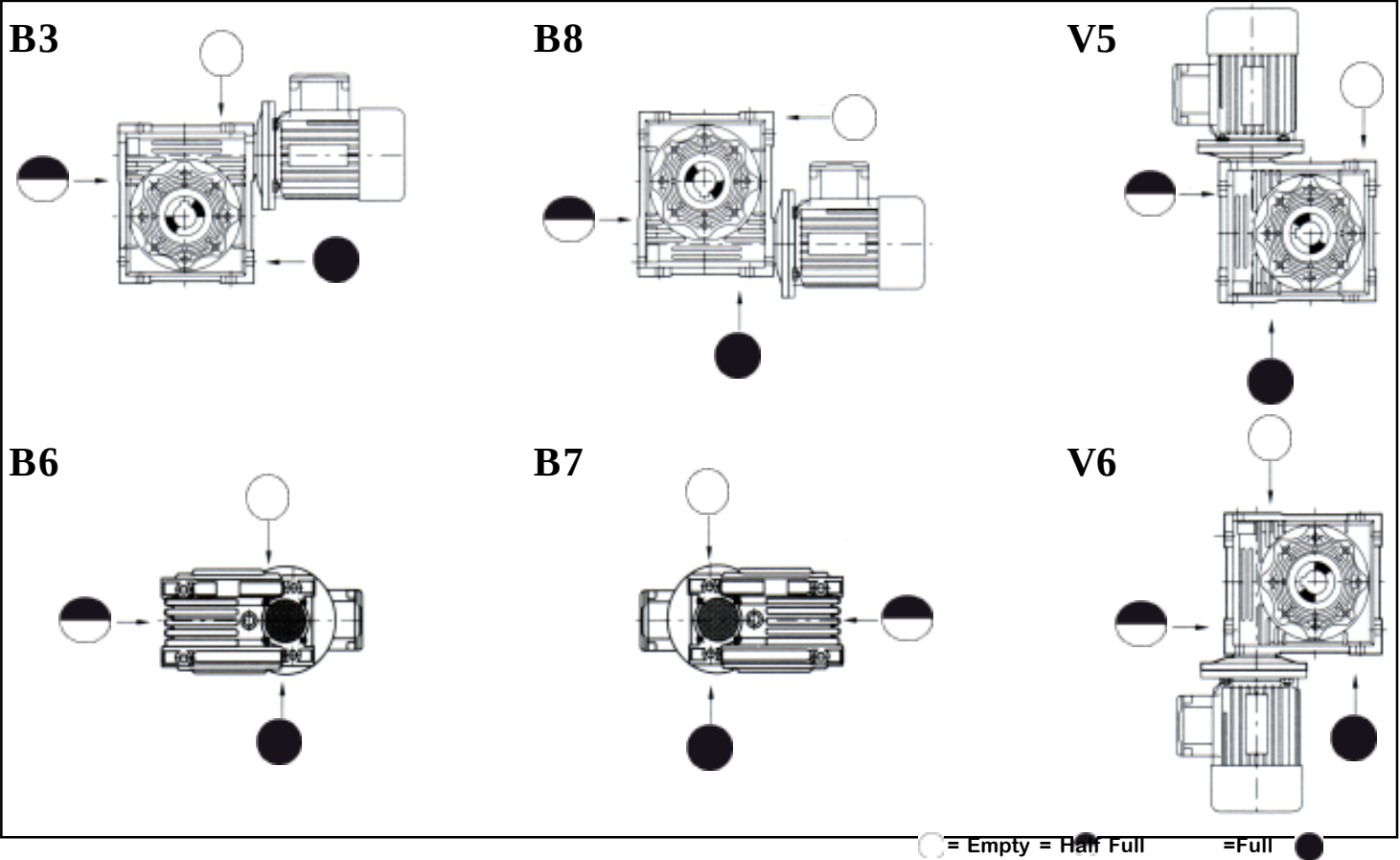
Torque Arms

Type	A	B	C	D	E	F	G	H	I
25	70	33	118	45	55	7	14	8	6
30	85	38	138	54	65	7	14	8	6
40	100	44	162	0	75	7	14	10	12
50	100	50	168	70	85	9	14	10	12
63	150	55	223	80	95	9	14	10	12
75	200	70	300	95	115	9	25	20	20
90	200	80	310	110	130	11	25	20	20
110	250	100	385	130	165	11	30	25	25
130	250	125	410	180	215	14	30	25	25
150	250	125	410	180	215	14	30	25	25
185	300	150	495	230	265	18	30	25	25

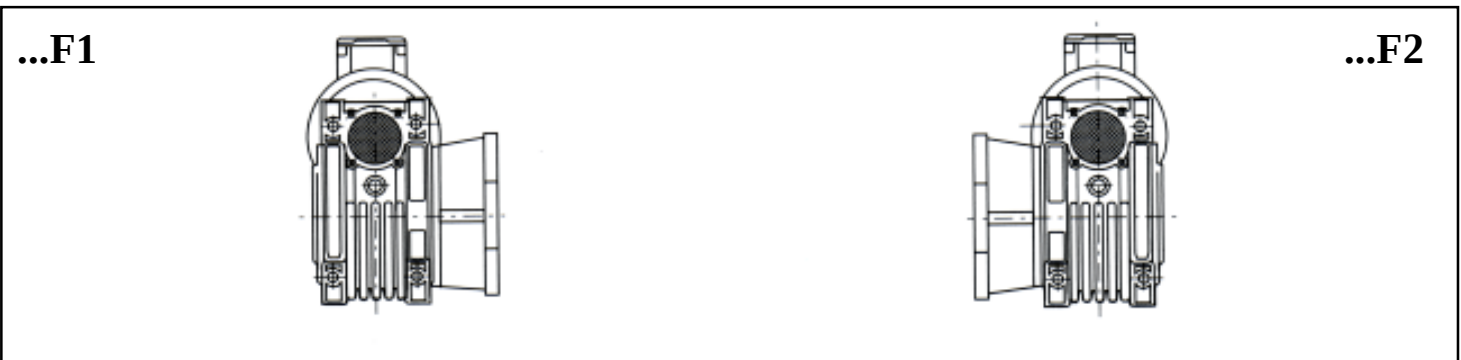


AMETRIC® UNIVERSAL MOUNT REDUCER

5.5 Mounting Positions



Positions of Output Flange "F"



Mounting Positions of Junction Box

