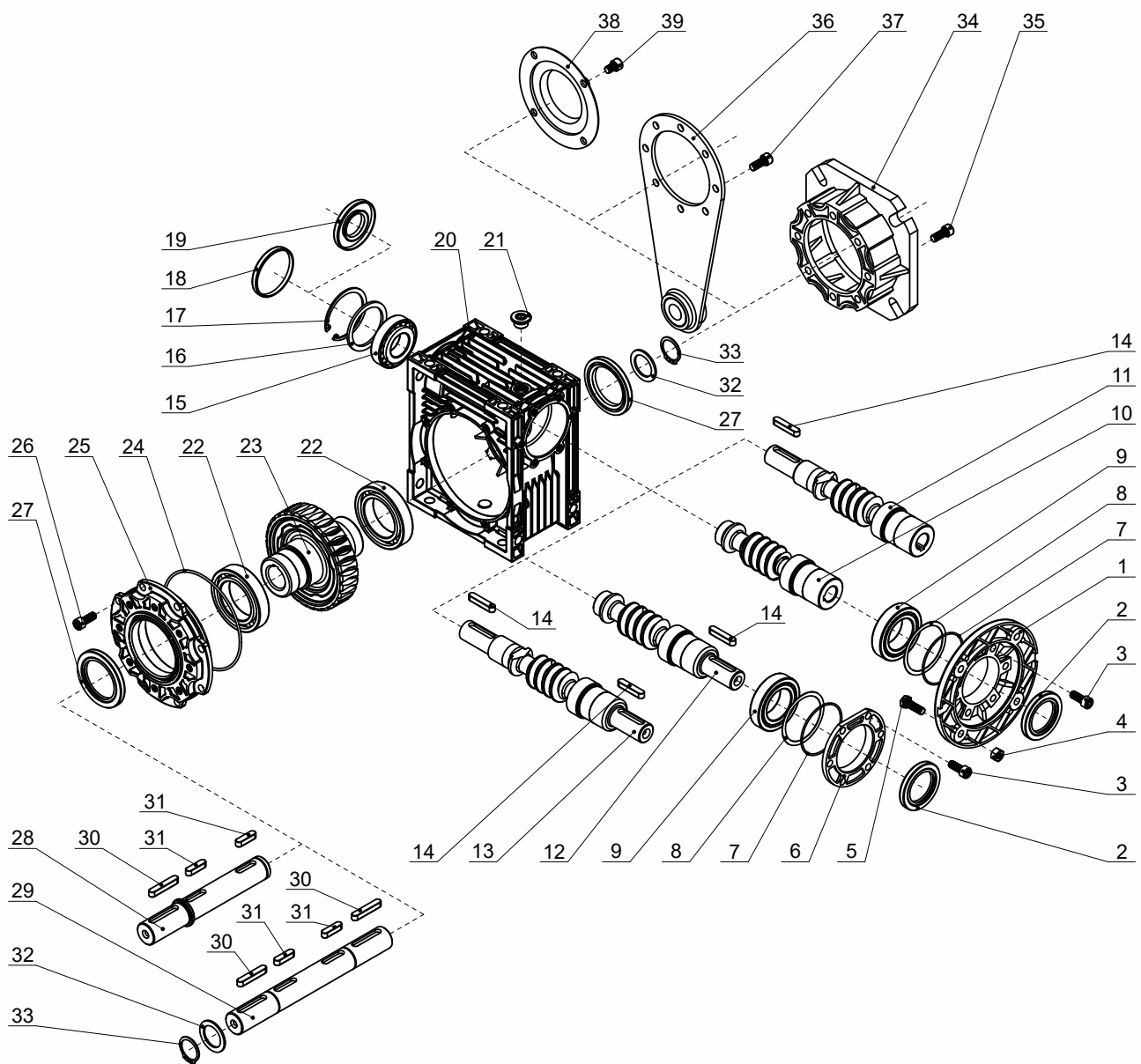


## 2.1. NMRV 분해도

## 2.1. NMRV Exploded view and versions

NMRV Exploded view

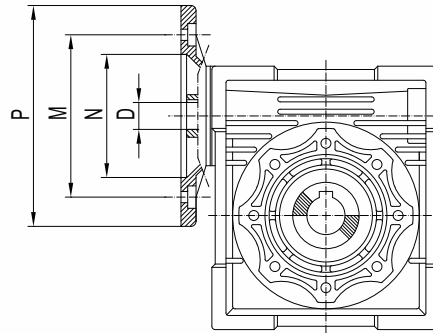


1	입력 프렌지 Flange PAM	11	더블 웜샤프트 Double ext. PAM worm	21	플러그 콕 Plug cock	31	평행 키 Parallel key
2	오일씰 (리데나) oli seal	12	NRV용 웜샤프트 RV worm	22	베어링 Bearing	32	와셔 Washer
3	헥사곤 소켓 헤드캡 스크류 Hexagon socket head cap screw	13	더블 NRV용 웜샤프트 Double ext. RV worm	23	웜휠 Worm wheel	33	스냅링 (샤프트용) Circlip for shaft
4	헥사곤 너트 Hexagon nuts	14	평행키 Parallel key	24	오링 o-ring	34	출력 프렌지 Output flange
5	헥사곤 볼트 Hexagon bolt	15	베어링 Bearing	25	베어링 서포트 커버 Bearing support cover	35	헥사곤 소켓 헤드캡 스크류 Hexagon socket head cap screw
6	기어 유닛 커버 Gear unit cover	16	와셔 Washer	26	육각 소켓 헤드캡 스크류 Hexagon socket head cap screw	36	토크암 Torque arm
7	오링 o-ring	17	스냅링 Circlip for hole	27	오일씰 oli seal	37	헥사곤 소켓 헤드캡 스크류 Hexagon socket head cap screw
8	스페이서 심 Spacer shim	18	캡 Cap	28	단축 출력 샤프트 single output shaft	38	보호 커버 Protection cap
9	베어링 Bearing	19	오일씰 oli seal	29	양축 출력 샤프트 Double output shaft	39	헥사곤 소켓 헤드캡 스크류 Hexagon socket head cap screw
10	웜샤프트 PAM worm	20	케이스 Case	30	평행 키 Parallel key		

2.3. NMRV 시리즈 IEC PAM 입력

2.3. DISPOSITION AND COMBINATIONS

NMRV Pre-disposition



NMRV	PAM IEC	N	M	P	D											
					5	7.5	10	15	20	25	30	40	50	60	80	100
025	56B14	50	65	80	9	9	9	9	9	-	9	9	9	9	-	-
	63B5	95	115	140	11	11	11	11	11	11	11	11	11	-	-	-
030	63B14	60	75	90	9	9	9	9	9	9	9	9	9	9	9	-
	56B5	80	100	120	-	-	-	-	-	-	-	-	-	-	-	-
	56B14	50	65	80	14	14	14	14	14	14	14	14	-	-	-	-
	71B5	110	130	160	11	11	11	11	11	11	11	11	11	11	11	11
040	71B14	70	85	105	-	-	-	-	-	-	-	-	9	9	9	9
	63B5	95	115	140	19	19	19	19	19	19	19	-	-	-	-	-
	63B14	60	75	90	14	14	14	14	14	14	14	14	14	14	14	-
	56B5	80	100	120	-	-	-	-	-	-	-	-	11	11	11	11
050	80B5	130	165	200	-	24	24	24	24	24	24	-	-	-	-	-
	80B14	80	100	120	-	19	19	19	19	19	19	19	19	19	19	19
	71B5	110	130	160	-	-	-	-	-	-	-	-	14	14	14	14
	71B14	70	85	105	-	-	-	-	-	-	-	-	14	14	14	14
063	63B5	95	115	140	-	-	-	-	-	-	-	11	11	11	11	11
	90B5	130	165	200	-	28	28	28	-	-	-	-	-	-	-	-
	90B14	95	115	140	-	24	24	24	24	24	24	24	-	-	-	-
	80B5	130	165	200	-	-	-	-	19	19	19	19	19	19	19	19
	80B14	80	100	120	-	-	-	-	-	-	-	-	14	14	14	14
	71B5	110	130	160	-	-	-	-	-	-	-	-	14	14	14	14
075	100/112B5	180	215	250	-	28	28	28	28	28	28	-	-	-	-	-
	100/112B14	110	130	160	-	24	24	24	24	24	24	24	24	24	-	-
	90B5	130	165	200	-	-	-	-	19	19	19	19	19	19	19	19
	90B14	95	115	140	-	-	-	-	-	-	-	-	14	14	14	14
	80B5	130	165	200	-	-	-	-	-	-	-	19	19	19	19	19
	80B14	80	100	120	-	-	-	-	-	-	-	-	14	14	14	14
090	100/112B5	180	215	250	-	28	28	28	28	28	28	-	-	-	-	-
	100/112B14	110	130	160	-	24	24	24	24	24	24	24	24	24	-	-
	90B5	130	165	200	-	-	-	-	-	-	-	-	-	-	-	-
	90B14	95	115	140	-	-	-	-	-	-	-	19	19	19	19	19
	80B5	130	165	200	-	-	-	-	-	-	-	-	-	-	-	-
	80B14	80	100	120	-	-	-	-	-	-	-	-	-	-	19	19
105 110	132B5	230	265	300	-	38	38	38	38	38	38	38	38	38	-	-
	100/112B5	180	215	250	-	28	28	28	28	28	28	28	28	28	28	-
	90B5	130	165	200	-	-	-	-	-	24	24	24	24	24	24	24
	80B5	130	165	200	-	-	-	-	-	-	-	-	-	-	19	19
130	132B5	230	265	300	-	38	38	38	38	38	38	38	38	38	-	-
	100/112B5	180	215	250	-	-	-	-	-	28	28	28	28	28	28	28
	90B5	130	165	200	-	-	-	-	-	-	-	-	-	-	24	24
150	160B5	250	300	350	-	42	42	42	42	42	-	-	-	-	-	-
	132B5	230	265	300	-	-	-	-	38	38	38	38	38	38	-	-
	100/112B5	180	215	250	-	-	-	-	-	-	-	-	28	28	28	28

NMRV

2.7. 워미어 특성표

2.7. MESH DATA

웜 나사, 웜휠 및 기타 데이터

Worm thread, worm wheel tooth and efficiency data

NMRV	i	5	7.5	10	15	20	25	30	40	50	60	80	100
<b>025</b>	Z <sub>1</sub>	4	4	3	2	2		1	1	1	1		
	Y	30°57	25°18	19°31	13°18	10°53		6°44	5°29	4°34	3°56		
	M <sub>x</sub>	1.8	1.3	1.3	1.3	1		1.3	1	0.8	0.67		
	η <sub>d</sub>	0.86	0.84	0.82	0.78	0.74		0.66	0.61	0.57	0.54		
	η <sub>s</sub>	0.71	0.70	0.67	0.60	0.55		0.46	0.41	0.36	0.34		
<b>030</b>	Z <sub>1</sub>	4	4	3	2	2	1	1	1	1	1	1	
	Y	21°48	18°50	14°21	9°40	7°44	5°34	4°52	3°53	3°11	2°46	2°07	
	M <sub>x</sub>	2	1.44	1.44	1.44	1.1	1.7	1.44	1.1	0.88	0.75	0.56	
	η <sub>d</sub>	0.86	0.84	0.81	0.76	0.72	0.67	0.64	0.58	0.54	0.50	0.44	
	η <sub>s</sub>	0.71	0.66	0.62	0.54	0.50	0.43	0.39	0.35	0.31	0.27	0.23	
<b>040</b>	Z <sub>1</sub>	4	4	4	2	2	2	1	1	1	1	1	1
	Y	27°24	21°48	17°31	11°18	8°58	7°41	5°42	4°30	3°51	3°17	2°32	2°05
	M <sub>x</sub>	2.8	2	1.5	2	1.5	1.25	2	1.5	1.25	1.04	0.78	0.63
	η <sub>d</sub>	0.88	0.86	0.85	0.81	0.77	0.74	0.69	0.64	0.61	0.57	0.51	0.47
	η <sub>s</sub>	0.72	0.69	0.65	0.58	0.53	0.5	0.44	0.4	0.36	0.32	0.28	0.24
<b>050</b>	Z <sub>1</sub>	4	4	4	2	2	2	1	1	1	1	1	1
	Y	23°49	21°48	17°42	11°18	9°04	7°36	5°42	4°33	3°49	3°17	2°33	2°04
	M <sub>x</sub>	3.4	2.5	1.9	2.5	1.9	1.54	2.5	1.9	1.54	1.3	0.98	0.78
	η <sub>d</sub>	0.87	0.86	0.84	0.8	0.77	0.74	0.7	0.65	0.61	0.57	0.51	0.49
	η <sub>s</sub>	0.73	0.69	0.65	0.58	0.54	0.5	0.44	0.39	0.35	0.32	0.27	0.23
<b>063</b>	Z <sub>1</sub>		4	4	2	2	2	1	1	1	1	1	1
	Y		24°31	20°19	12°50	10°29	8°44	6°30	5°17	4°23	3°47	2°59	2°25
	M <sub>x</sub>		3.25	2.5	3.25	2.5	2	3.25	2.5	2	1.68	1.28	1.02
	η <sub>d</sub>		0.87	0.86	0.82	0.8	0.77	0.73	0.69	0.65	0.61	0.56	0.5
	η <sub>s</sub>		0.7	0.65	0.59	0.54	0.5	0.45	0.4	0.36	0.33	0.28	0.24
<b>075</b>	Z <sub>1</sub>		4	4	2	2	2	1	1	1	1	1	1
	Y		26°33	21°48	14°02	11°18	9°37	7°07	5°42	4°50	4°05	3°15	2°40
	M <sub>x</sub>		4	3	4	3	2.45	4	3	2.45	2	1.54	1.24
	η <sub>d</sub>		0.88	0.87	0.84	0.81	0.79	0.75	0.71	0.68	0.64	0.59	0.54
	η <sub>s</sub>		0.7	0.67	0.6	0.57	0.52	0.46	0.42	0.38	0.35	0.29	0.26
<b>090</b>	Z <sub>1</sub>		4	4	2	2	2	1	1	1	1	1	1
	Y		28°20	23°26	15°05	12°14	10°37	7°40	6°11	5°21	4°36	3°36	2°57
	M <sub>x</sub>		4.8	3.6	4.8	3.6	3	4.8	3.6	3	2.5	1.88	1.5
	η <sub>d</sub>		0.89	0.88	0.85	0.83	0.81	0.77	0.74	0.71	0.68	0.62	0.58
	η <sub>s</sub>		0.72	0.69	0.63	0.59	0.55	0.49	0.45	0.41	0.38	0.32	0.28
<b>105 110</b>	Z <sub>1</sub>		4	4	2	2	2	1	1	1	1	1	1
	Y		28°17	27°35	15°03	14°38	12°37	7°39	7°26	6°23	5°31	4°23	3°38
	M <sub>x</sub>		5.89	4.6	5.89	4.6	3.75	5.89	4.6	3.75	3.12	2.36	1.9
	η <sub>d</sub>		0.89	0.88	0.85	0.84	0.83	0.78	0.77	0.74	0.71	0.66	0.62
	η <sub>s</sub>		0.71	0.68	0.62	0.61	0.58	0.48	0.48	0.44	0.41	0.36	0.32
<b>130</b>	Z <sub>1</sub>		4	4	2	2	2	1	1	1	1	1	1
	Y		28°46	26°15	15°21	13°51	11°49	7°48	7°01	5°58	5°12	4°05	3°25
	M <sub>x</sub>		7	5.4	7	5.4	4.37	7	5.4	4.37	3.68	2.75	2.24
	η <sub>d</sub>		0.9	0.88	0.86	0.85	0.83	0.79	0.77	0.74	0.71	0.67	0.63
	η <sub>s</sub>		0.71	0.68	0.62	0.6	0.57	0.49	0.46	0.43	0.39	0.34	0.3
<b>150</b>	Z <sub>1</sub>		6	4	3	2	2	2	1	1	1	1	1
	Y		32°09	24°35	17°27	12°53	11°19	9°50	6°32	5°43	4°57	3°55	3°14
	M <sub>x</sub>		5.5	6.155	5.5	6.155	5	4.193	6.155	5	4.193	3.17	2.55
	η <sub>d</sub>		0.91	0.9	0.88	0.86	0.84	0.83	0.78	0.76	0.73	0.68	0.64
	η <sub>s</sub>		0.73	0.71	0.66	0.6	0.57	0.54	0.45	0.42	0.39	0.33	0.29

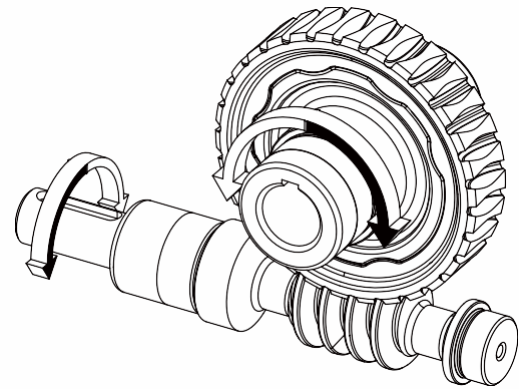
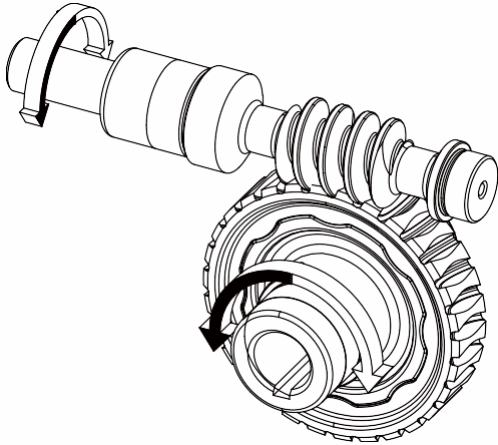
NMRV



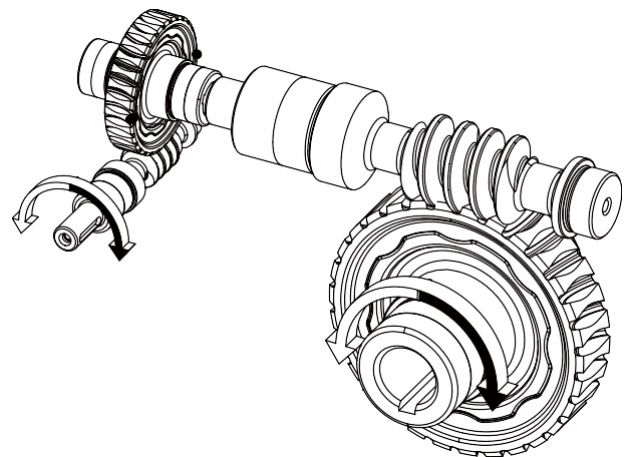
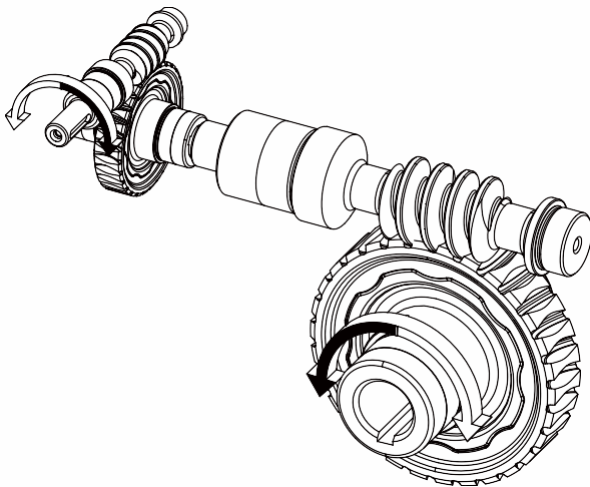
2.8. 회전 방향

2.8. Direction of rotation

**NMRV - NRV**



**NMRV+NMRV - NRV+NMRV**

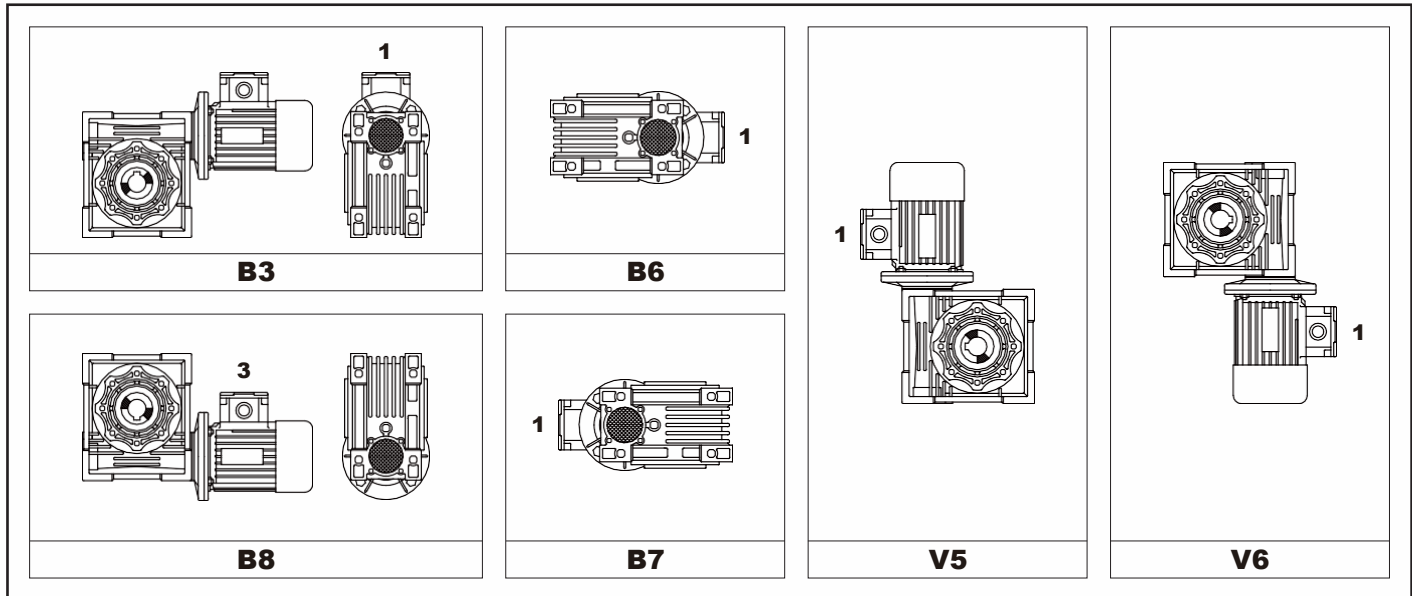


## 2.9. 설치 포지션

## 2.9. MOUNTING POSITIONS

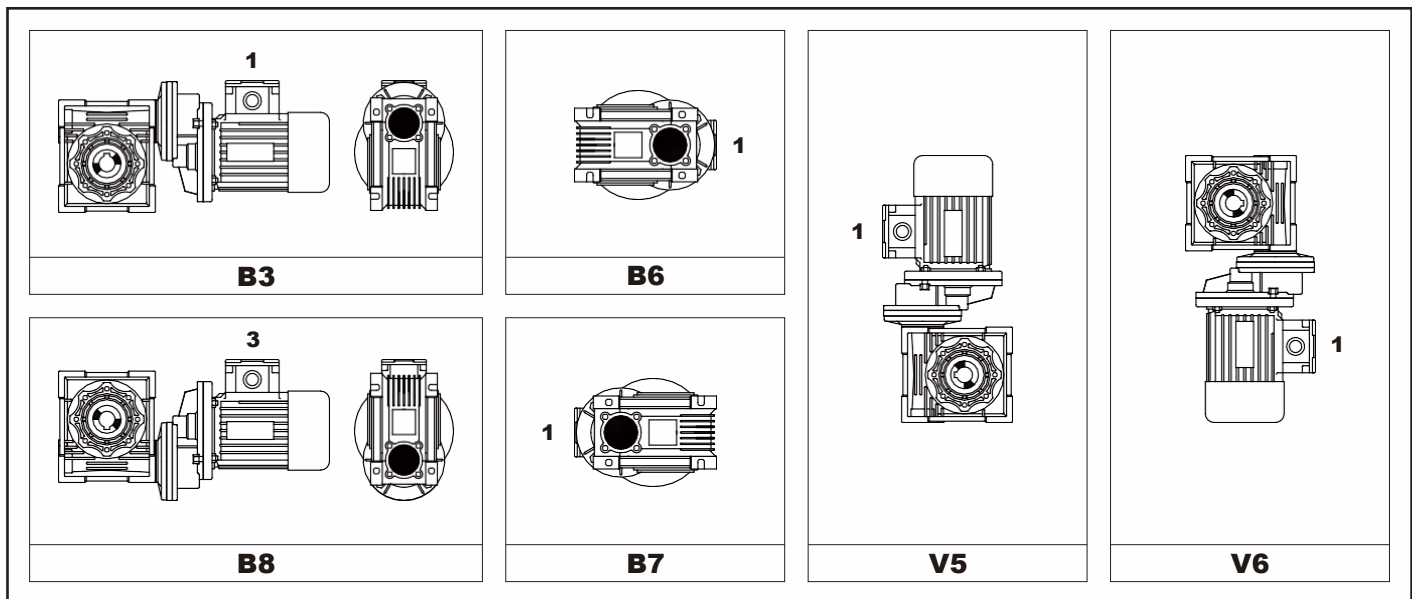
### ▶ NMRV - NRV 설치 포지션

### ▶ NMRV - NRV Mounting positions



### ▶ PC+NMRV 설치 포지션

### ▶ PC+NMRV Mounting positions





별도 요청이 없을 경우, 표준 포지션은 B3입니다.  
 명시되지 않은 포지션에 대해서는 당사에 문의하여 주십시오



For vertical positions, check with page 5.  
 Unless specified otherwise, the standard positions are B3.  
 For positions not envisaged, it is necessary to call our technical service.

2.12. NMRV, NMRV+NMRV, PC+NMRV 성능표



2.12. NMRV, NMRV+NMRV, PC+NMRV Performance

$P_1$ (kW)	$n_2$ (min <sup>-1</sup> )	$M_2$ (Nm)	f.s.	i	Type		$Fr_2$ (N)	
<b>0.06</b>	280.0	1.8	6.2	5	<i>NMRV025</i>	<i>561-4</i>	439	61
	186.7	2.6	4.2	7.5			503	
	140	3.4	3.5	10			553	
	93.3	4.9	2.5	15			633	
	70	6.1	2	20			697	
	46.7	8.2	1.6	30			798	
	35	10	1.3	40			878	
	28	12	0.9	50			946	
23.3	14	0.7	60	1006				
<hr/>								
	180	2.7	4.8	5	<i>NMRV025</i>	<i>562-6</i>	509	61
	120	4	3.2	7.5			583	
	90	5.2	2.7	10			641	
	60	7.4	1.9	15			734	
	45	9.3	1.4	20			808	
	30	12	1.2	30			925	
	22.5	15	0.9	40			1018	
	18	18	0.7	50			1096	
<hr/>								
	280	1.8	10.1	5	<i>NMRV030</i>	<i>561-4</i>	597	62
	186.7	2.6	6.9	7.5			683	
	140	3.4	5.4	10			752	
	93.3	4.7	3.8	15			861	
	70	6	3	20			948	
	56	7	3	25			1021	
	46.7	8	2.5	30			1085	
	35	9.7	1.9	40			1194	
	28	11	1.5	50	1286			
	23.3	13	1.3	60	1367			
	17.5	14	0.9	80	1504			
<hr/>								
	15	18	0.9	60	<i>NMRV030</i>	<i>562-6</i>	1583	62
	14	25	1.3	100				
	9.3	32	0.9	150	<i>NMRV025/030</i>	<i>561-4</i>	1620	76
	7	41	0.7	200			1830	
	5.6	44	0.8	250			1830	
<hr/>								
	18	18	2.3	50	<i>NMRV040</i>	<i>562-6</i>	2868	63
	15	21	1.9	60			3047	
	11.3	24	1.4	80			3354	
	9	27	1.2	100			3490	
<hr/>								
	4.7	59	1.2	300	<i>NMRV025/040</i>	<i>561-4</i>	3490	76
	3.5	71	0.9	400			3490	
	2.8	82	0.7	500			3490	
	2.3	101	0.6	600			3490	
	1.9	116	0.5	750			3490	
	1.6	143	0.5	900			3490	
	1.2	171	0.4	1200			3490	
	0.9	197	0.3	1500			3490	
	0.8	217	0.3	1800			3490	
	0.6	268	0.2	2400			3490	
	0.5	324	0.2	3000			3490	
	0.4	294	0.1	4000			3490	
	0.3	356	0.1	5000			3490	
<hr/>								
	4.7	57	1.3	300	<i>NMRV030/040</i>	<i>561-4</i>	3490	77
	3.5	70	0.9	400			3490	
	2.8	96	0.6	500			3490	
	2.3	104	0.7	600			3490	

**NMRV**

<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)			
<b>0.06</b>	1.9	121	0.6	750	<i>NMRV030/040</i>	<i>561-4</i>	3490	77		
	1.6	139	0.5	900			3490			
	1.2	166	0.4	1200			3490			
	0.9	196	0.4	1500			3490			
	0.8	218	0.3	1800			3490			
	0.58	261	0.2	2400			3490			
	0.4	300	0.2	3200			3490			
	0.4	279	0.1	4000			3490			
	0.28	338	0.1	5000			3490			
	1.6	141	1	900			<i>NMRV030/050</i>		<i>561-4</i>	4840
1.2	169	0.7	1200	4840						
0.93	199	0.7	1500	4840						
0.78	222	0.7	1800	4840						
0.6	266	0.5	2400	4840						
0.5	307	0.4	3000	4840						
0.35	288	0.3	4000	4840						
0.29	311	0.3	4800	4840						
0.9	204	1.1	1500	<i>NMRV030/063</i>	<i>561-4</i>	6270		77		
0.78	225	0.9	1800			6270				
0.58	276	0.8	2400			6270				
0.47	319	0.7	3000			6270				
0.35	306	0.6	4000			6270				
0.28	360	0.4	5000			6270				
0.6	330	1.1	2400	<i>NMRV040/075</i>	<i>561-4</i>	7380	78			
0.47	377	0.8	3000			7380				
0.35	355	0.7	4000			7380				
0.28	419	0.5	5000			7380				
0.5	406	1.4	3000	<i>NMRV040/090</i>	<i>561-4</i>	8180	78			
0.35	365	1.3	4000			8180				
0.28	431	1	5000			8180				
<b>0.09</b>	280	2.7	4.1	5	<i>NMRV025</i>	<i>562-4</i>	439	61		
	186.7	3.9	2.8	7.5			503			
	140	5.1	2.4	10			553			
	93.3	7.3	1.6	15			633			
	70	9.2	1.3	20			697			
	46.7	12	1.1	30			798			
	35	15	0.9	40			878			
	280	2.7	6.7	5			<i>NMRV030</i>		<i>562-4</i>	597
	186.7	3.9	4.6	7.5	683					
	140	5	3.6	10	752					
	93.3	7.1	2.5	15	861					
	70	9	2	20	948					
	56	10	2	25	1021					
	46.7	12	1.7	30	1085					
	35	14	1.2	40	1194					
28	17	1	50	1286						
23.3	19	0.9	60	1367						
180	4.1	4.9	5	<i>NMRV030</i>	<i>631-6</i>	692	62			
120	5.9	3.4	7.5			792				
90	7.6	2.6	10			871				
60	11	1.9	15			997				
45	13	1.5	20			1098				
36	15	1.5	25			1183				
30	17	1.2	30			1257				
22.5	21	1	40			1383				
18	24	0.7	50			1490				





$P_1$ (kW)	$n_2$ (min <sup>-1</sup> )	$M_2$ (Nm)	f.s.	i	Type		$Fr_2$ (N)	
<b>0.09</b>	14	38	0.8	100	<i>NMRV025/030</i>	<b>562-4</b>	1620	76
	9.3	49	0.6	150			1830	
	7	62	0.5	200			1830	
	5.6	66	0.5	250			1830	
	4.7	75	0.4	300			1830	
	3.5	107	0.3	400			1830	
	2.8	115	0.3	500			1830	
	2.3	135	0.2	600			1830	
	1.9	151	0.2	750			1830	
	1.6	178	0.2	900			1830	
	1.2	212	0.1	1200			1830	
	0.9	247	0.1	1500			1830	
	0.78	304	0.1	1800			1830	
	0.58	340	0.1	2400			1830	
	0.47	405	0.1	3000			1830	
28	19	2	50	<i>NMRV040</i>	<b>562-4</b>	2475	63	
23.3	21	1.7	60			2630		
17.5	26	1.3	80			2895		
14	29	1	100			3118		
30	19	2.6	30	<i>NMRV040</i>	<b>631-6</b>	2419	63	
22.5	24	1.9	40			2662		
18	27	1.5	50			2868		
15	31	1.3	60			3047		
11.3	37	1	80			3354		
9	41	0.8	100	3490				
12.3	47	1.3	73.3	<i>PC063+NMRV040</i>	<b>631-6</b>	3283	72	
10.2	51	1.4	88			3488		
7.7	62	1.1	117.3			3490		
6.1	72	0.8	146.7			3490		
5.1	79	0.7	176	3490				
4.7	88	0.8	300	<i>NMRV030/040</i>	<b>562-4</b>	3490	77	
15	32	2.3	60	<i>NMRV050</i>	<b>631-6</b>	4183	64	
11.3	37	1.8	80			4604		
9	42	1.3	100			4840		
6.1	73	1.6	146.7	<i>PC063+NMRV050</i>	<b>631-6</b>	4840	72	
5.1	81	1.3	176			4840		
3.8	94	0.9	234.6			4840		
3	106	0.7	293.3			4840		
3.5	107	1.2	400	<i>NMRV030/050</i>	<b>562-4</b>	4840	77	
2.8	123	1	500			4840		
2.3	159	0.9	600			4840		
1.9	185	0.8	750			4840		
1.6	212	0.7	900			4840		
3.8	99	1.7	234.6	<i>PC063+NMRV063</i>	<b>631-6</b>	6270	72	
3	109	1.4	293.3			6270		
1.6	200	1	900	<i>NMRV030/063</i>	<b>562-4</b>	6270	77	
1.2	263	0.9	1200			6270		
0.93	305	0.7	1500			6270		
0.9	360	1.1	1500	<i>NMRV040/075</i>	<b>562-4</b>	7380	78	
0.78	404	1	1800			7380		
0.58	496	0.7	2400			7380		
0.5	609	0.9	3000	<i>NMRV040/090</i>	<b>562-4</b>	8180	78	
0.35	548	0.8	4000			8180		



**NMRV**







<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)	
<b>0.12</b>	280	3.6	5.1	5	<i>NMRV030</i>	<i>631-4</i>	597	62
	186.7	5.2	3.4	7.5			683	
	140	6.7	2.7	10			752	
	93.3	9.5	1.9	15			861	
	70	12	1.5	20			948	
	56	14	1.5	25			1021	
	46.7	16	1.3	30			1085	
	35	19	0.9	40			1194	
	28	23	0.8	50			1286	
	<hr/>							
	180	5.4	3.7	5	<i>NMRV030</i>	<i>632-6</i>	692	62
	120	7.9	2.5	7.5			792	
	90	10	2	10			871	
	60	14	1.4	15			997	
	45	18	1.1	20			1098	
	36	20	1.1	25			1183	
	30	23	0.9	30			1257	
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	46.7	17	2.6	30	<i>NMRV040</i>	<i>631-4</i>	2087	63
	35	21	1.9	40			2298	
	28	25	1.5	50			2475	
	23.3	28	1.3	60			2630	
	17.5	34	1	80			2895	
	14	38	0.8	100			3118	
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	30	25	1.9	30	<i>NMRV040</i>	<i>632-6</i>	2419	63
	22.5	32	1.4	40			2662	
	18	36	1.2	50			2868	
	15	41	0.9	60			3047	
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	19.1	42	1.2	73.3	<i>PC063+NMRV040</i>	<i>631-4</i>	2833	72
	15.9	46	1.2	88			3011	
	11.9	57	0.9	117.3			3314	
	9.5	66	0.7	146.7			3490	
	7.9	74	0.6	176			3490	
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	12.3	62	1	73.3	<i>PC063+NMRV040</i>	<i>632-6</i>	3283	72
	10.2	68	1.1	88			3488	
	7.7	83	0.8	117.3			3490	
<hr/>								
	23.3	29	2.3	60	<i>NMRV050</i>	<i>631-4</i>	3610	64
	17.5	35	1.9	80			3973	
	14	40	1.4	100			4280	
<hr/>								
	22.5	32	2.6	40	<i>NMRV050</i>	<i>632-6</i>	3654	64
	18	38	2	50			3936	
	15	42	1.7	60			4183	
	11.3	50	1.4	80			4604	
	9	56	1	100			4840	
<hr/>								
	9.5	68	1.3	146.7	<i>PC063+NMRV050</i>	<i>631-4</i>	4840	72
	8	75	1.1	176			4840	
	5.8	88	0.8	234.6			4840	
	4.8	98	0.7	293.3			4840	
<hr/>								
	12.3	63	1.7	73.3	<i>PC063+NMRV050</i>	<i>632-6</i>	4506	72
	10.2	70	2.1	88			4788	
	7.7	84	1.5	117.3			4840	
	6.1	97	1.2	146.7			4840	
	5.1	108	1	176			4840	
	3.8	125	0.7	234.6			4840	





<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)	
<b>0.12</b>	4.7	119	1.2	300	<i>NMRV030/050</i>	<b>631-4</b>	4840	77
	3.5	142	0.9	400			4840	
	2.8	164	0.7	500			4840	
	6	92	1.5	234.6	<i>PC063+NMRV063</i>	<b>631-4</b>	6270	72
	4.8	103	1.2	293.3			6270	
	6.1	101	2.1	146.7	<i>PC063+NMRV063</i>	<b>632-6</b>	6270	72
	5.1	112	1.8	176			6270	
	3.8	131	1.3	234.6			6270	
	3.1	145	1	293.3			6270	
	2.8	171	1.3	500	<i>NMRV030/063</i>	<b>631-4</b>	6270	77
	2.3	208	1.1	600			6270	
	1.9	241	0.9	750			6270	
1.6	325	1.2	900	<i>NMRV040/075</i>	<b>631-4</b>	7380	78	
1.2	399	0.9	1200			7380		
0.8	547	0.9	1800	<i>NMRV040/090</i>	<b>631-4</b>	8180	78	
0.58	695	0.9	2400			8180		
0.5	884	1.1	3000	<i>NMRV050/105</i>	<b>631-7</b>	10320	78	
0.35	784	1.0	4000			10320		
0.28	928	0.76	5000			10320		
0.5	884	1.2	3000	<i>NMRV050/110</i>	<b>631-4</b>	10320	79	
0.35	784	1	4000			10320		
0.28	928	0.8	5000			10320		
<b>0.18</b>	280	5.3	3.4	5	<i>NMRV030</i>	<b>632-4</b>	597	62
	186.7	7.8	2.3	7.5			683	
	140	10	1.8	10			752	
	93.3	14	1.3	15			861	
	70	18	1	20			948	
	56	21	1	25			1021	
	46.7	24	0.8	30			1085	
	70	19	2	20	<i>NMRV040</i>	<b>632-4</b>	1824	63
	56	23	1.7	25			1964	
	46.7	26	1.7	30			2087	
	35	32	1.3	40			2298	
	28	38	1	50			2475	
	23.3	43	0.8	60			2630	
	45	29	1.5	20	<i>NMRV040</i>	<b>711-6</b>	2113	63
	36	34	1.3	25			2276	
	30	38	1.3	30			2419	
	22.5	47	1	40			2662	
	19.1	64	0.8	73.3	<i>PC063+NMRV040</i>	<b>632-4</b>	2833	72
	15.9	70	0.8	88			3011	
	11.9	85	0.6	117.3			3314	
	35	33	2.3	40	<i>NMRV050</i>	<b>632-4</b>	3153	64
	28	39	1.9	50			3397	
	23.3	43	1.6	60			3610	
	17.5	52	1.2	80			3973	
	14	60	0.9	100			4280	
	18	56	1.4	50	<i>NMRV050</i>	<b>711-6</b>	3936	64
	15	63	1.1	60			4183	
	11.3	75	0.9	80			4604	

**NMRV**





<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)	
<b>0.18</b>	19.1	64	1.4	73.3	<i>PC063+NMRV050</i>	632-4	3889	72
	15.9	71	1.5	88			4132	
	11.9	87	1.1	117.3			4548	
	9.5	101	0.9	146.7			4840	
	7.9	113	0.7	176			4840	
	5.8	133	0.6	234.6			4840	
	12.2	95	1.2	73.5	<i>PC071+NMRV050</i>	711-6	4506	73
	10.2	105	1.4	88.2			4788	
	7.7	126	1	117.6			4840	
	15	66	2.1	60	<i>NMRV063</i>	711-6	5467	65
	11.3	79	1.6	80			6018	
	9	90	1.4	100			6270	
	9.5	103	1.7	146.7	<i>PC063+NMRV063</i>	632-4	6270	72
	8	117	1.4	176			6270	
	5.8	139	1	234.6			6270	
	4.8	155	0.8	293.3			6270	
	12.4	97	2.2	73.5	<i>PC071+NMRV063</i>	711-6	5889	73
	10.2	107	2.4	88.2			6259	
7.7	131	1.8	117.6	6270				
6.1	152	1.4	147	6270				
5.1	168	1.2	176.4	6270				
3.8	197	0.9	235.2	6270				
3.1	218	0.7	294	6270				
3.5	222	1	400	<i>NMRV030/063</i>			632-4	
2.8	257	0.8	500		6270			
5.1	179	1.7	176.4	<i>PC071+NMRV075</i>	711-6	7380	73	
3.8	211	1.2	235.2			7380		
3.1	235	1	294			7380		
2.3	362	1.1	600	<i>NMRV040/075</i>	632-4	7380	78	
1.9	435	0.9	750			7380		
1.6	487	0.8	900			7380		
1.2	629	1	1200	<i>NMRV040/090</i>	632-4	8180	78	
0.93	735	0.8	1500			8180		
0.8	861	1.3	1800	<i>NMRV050/105</i>	632-4	10320	78	
0.58	1113	0.9	2400			10320		
0.8	861	1.5	1800	<i>NMRV050/110</i>	632-4	10320	79	
0.58	1113	1.1	2400			10320		
<b>0.25</b>	280	8	4.5	5	<i>NMRV040</i>	711-4	1149	63
	186.7	11	3.6	7.5			1315	
	140	14	2.8	10			1447	
	93.3	21	1.9	15			1657	
	70	27	1.5	20			1824	
	56	32	1.2	25			1964	
	46.7	36	1.3	30			2087	
	35	44	0.9	40			2298	
	180	12	3.5	5			<i>NMRV040</i>	
	120	17	2.6	7.5	1524			
	90	22	2	10	1677			
	60	31	1.4	15	1920			
	45	40	1.1	20	2113			
	36	48	0.9	25	2276			
	30	53	0.9	30	2419			





<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)	
<b>0.25</b>	70	27	2.7	20	<i>NMRV050</i>	<i>711-4</i>	2503	64
	56	32	2.2	25			2696	
	46.7	37	2.3	30			2865	
	35	46	1.7	40			3153	
	28	54	1.4	50			3397	
	23.3	60	1.1	60			3610	
	17.5	72	0.9	80	3973			
	45	40	1.9	20	<i>NMRV050</i>	<i>712-6</i>	2900	64
	36	48	1.5	25			3124	
	30	54	1.7	30			3320	
	22.5	67	1.2	40			3654	
	18	78	1	50			3936	
15	88	0.8	60	4183				
19	88	1	73.5	<i>PC071+NMRV050</i>	<i>711-4</i>	3889	73	
15.9	98	1.1	88.2			4132		
11.9	121	0.8	117.6			4548		
28	56	2.4	50	<i>NMRV063</i>	<i>711-4</i>	4440	65	
23.3	63	2	60			4719		
17.5	78	1.6	80			5193		
14	87	1.4	100			5595		
18	81	1.8	50	<i>NMRV063</i>	<i>712-6</i>	5145	65	
15	92	1.5	60			5467		
11.3	110	1.2	80			6018		
9	125	1	100			6270		
19	91	1.8	73.5	<i>PC071+NMRV063</i>	<i>711-4</i>	5083	73	
15.9	100	2	88.2			5401		
11.9	125	1.5	117.6			5945		
9.5	143	1.2	147			6270		
7.9	163	1	176.4			6270		
6	192	0.7	235.2			6270		
4.8	215	0.6	294			6270		
12.4	135	1.6	73.5			<i>PC071+NMRV063</i>		<i>712-6</i>
10.2	148	1.8	88.2	6259				
7.7	181	1.3	117.6	6270				
6.1	211	1	147	6270				
17.5	82	2.3	80	<i>NMRV075</i>	<i>711-4</i>	6130	66	
14	94	1.9	100			6603		
11.3	117	1.7	80	<i>NMRV075</i>	<i>712-6</i>	7103	66	
9	133	1.4	100			7380		
9.5	151	1.7	147	<i>PC071+NMRV075</i>	<i>711-4</i>	7380	73	
7.9	172	1.4	176.4			7380		
6	201	1.1	235.2			7380		
4.8	230	0.9	294			7380		
12.4	139	2.4	73.5	<i>PC071+NMRV075</i>	<i>712-6</i>	6952	73	
10.2	155	2.5	88.2			7380		
7.7	191	1.9	117.6			7380		
6.1	219	1.5	147			7380		
5.1	248	1.2	176.4			7380		
3.5	336	1.1	400	<i>NMRV040/075</i>	<i>711-4</i>	7380	78	
2.8	384	0.8	500			7380		

**NMRV**





<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)	
<b>0.25</b>	5.1	263	1.9	176.4	<i>PC071+NMRV090</i>	<i>712-6</i>	8180	74
	3.8	318	1.4	235.2			8180	
	3.1	358	1.1	294			8180	
	2.3	512	1.2	600	<i>NMRV040/090</i>	<i>711-4</i>	8180	78
	1.9	598	0.9	750			8180	
	1.6	667	0.8	900			8180	
	1.2	943	1.1	1200	<i>NMRV050/105</i>	<i>711-4</i>	10320	78
	0.93	1064	1	1500			10320	
	0.78	1195	0.9	1800			10320	
	1.2	943	1.3	1200	<i>NMRV050/110</i>	<i>711-4</i>	10320	79
	0.93	1064	1.2	1500			10320	
	0.78	1195	1.1	1800			10320	
	0.6	1624	1	2400	<i>NMRV063/130</i>	<i>711-4</i>	13500	79
	0.47	1935	0.8	3000			13500	
	0.35	2046	0.6	4000			13500	
0.28	2430	0.5	5000	13500				
0.8	1199	1.8	1800	<i>NMRV063/150</i>	<i>711-4</i>	18000	79	
0.6	1446	1.8	2400			18000		
0.5	1713	1.4	3000			18000		
0.4	2026	0.9	4000			18000		
0.3	2251	0.7	5000			18000		
<b>0.37</b>	280	11	3	5	<i>NMRV040</i>	<i>712-4</i>	1149	63
	186.7	16	2.4	7.5			1315	
	140	21	1.9	10			1447	
	93.3	31	1.3	15			1657	
	70	39	1	20			1824	
	56	47	0.8	25			1964	
	46.7	53	0.8	30			2087	
	140	22	3.3	10	<i>NMRV050</i>	<i>712-4</i>	1987	64
	93.3	31	2.4	15			2274	
	70	40	1.8	20			2503	
	56	48	1.5	25			2696	
	46.7	55	1.5	30			2865	
	35	68	1.1	40			3153	
	28	80	0.9	50			3397	
	23.3	89	0.8	60	3610			
	180	17	4.3	5	<i>NMRV050</i>	<i>801-6</i>	1827	64
	120	25	3.3	7.5			2091	
	90	33	2.5	10			2302	
	60	47	1.8	15			2635	
	45	60	1.3	20			2900	
	36	72	1	25			3124	
	30	80	1.1	30	3320			
	35	71	2.1	40	<i>NMRV063</i>	<i>712-4</i>	4122	65
	28	83	1.6	50			4440	
	23.3	94	1.4	60			4719	
	17.5	115	1.1	80			5193	
	14	129	0.9	100			5595	





<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)	
<b>0.37</b>	45	60	2.4	20	<i>NMRV063</i>	<i>801-6</i>	3791	65
	36	74	1.9	25			4084	
	30	82	2.1	30			4339	
	22.5	102	1.6	40			4776	
	18	120	1.2	50			5145	
	15	137	1	60			5467	
	19	134	1.2	73.5	<i>PC071+NMRV063</i>	<i>712-4</i>	5083	73
	15.9	148	1.4	88.2			5401	
	11.9	185	1	117.6			5945	
	9.5	212	0.8	147			6270	
	23.3	98	2	60	<i>NMRV075</i>	<i>712-4</i>	5569	66
	17.5	121	1.6	80			6130	
	14	139	1.3	100			6603	
	18	126	1.8	50	<i>NMRV075</i>	<i>801-6</i>	6073	66
	15	144	1.5	60			6453	
	11.3	173	1.2	80			7103	
	9	196	1	100			7380	
	19	138	1.8	73.5	<i>PC071+NMRV075</i>	<i>712-4</i>	6000	73
	15.9	154	1.9	88.2			6375	
	11.9	191	1.5	117.6			7017	
	9.5	223	1.1	147			7380	
	7.9	254	0.9	176.4			7380	
	12	206	1.6	75	<i>PC080+NMRV075</i>	<i>801-6</i>	6952	74
	10	230	1.7	90			7380	
	7.5	283	1.3	120			7380	
	6	324	1	150			7380	
	4.7	405	1	300	<i>NMRV040/075</i>	<i>712-4</i>	7380	78
	3.5	498	0.7	400			7380	
	11.3	185	1.7	80	<i>NMRV090</i>	<i>801-6</i>	7859	67
	9	212	1.3	100			8180	
	7.9	268	1.5	176.4	<i>PC071+NMRV090</i>	<i>712-4</i>	8180	74
	6	321	1.1	235.2			8180	
	4.8	371	0.9	294			8180	
	6	347	1.6	150	<i>PC080+NMRV090</i>	<i>801-6</i>	8180	74
	5	389	1.3	180			8180	
	3.8	471	1	240			8180	
	4.7	402	1.5	300	<i>NMRV040/090</i>	<i>712-4</i>	8180	78
	3.5	523	1.2	400			8180	
	2.8	611	0.9	500			8180	
	2.3	757	0.8	600			8180	
	3.8	509	1.5	240	<i>PC080+NMRV105</i>	<i>801-6</i>	10320	75
	3	577	1.2	300			10320	
	1.9	950	1.2	750	<i>NMRV050/105</i>	<i>712-4</i>	10320	78
	1.6	1079	1	900			10320	
	1.2	1396	0.7	1200			10320	
	3.8	509	1.6	240	<i>PC080+NMRV110</i>	<i>801-6</i>	10320	75
	3	577	1.3	300			10320	
	1.9	950	1.3	750	<i>NMRV050/110</i>	<i>712-4</i>	10320	79
	1.6	1079	1.2	900			10320	
	1.2	1396	0.8	1200			10320	

**NMRV**



<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)				
<b>0.37</b>	0.9	1674	1.1	1500	<i>NMRV063/130</i>	<i>712-4</i>	13500	79			
	0.78	1887	0.9	1800			13500				
	0.8	1775	1.2	1800	<i>NMRV063/150</i>	<i>712-4</i>	18000	79			
	0.6	2141	1.2	2400			18000				
0.5	2535	0.9	3000	18000							
<b>0.55</b>	280	17	3.7	5	<i>NMRV050</i>	<i>801-4</i>	1577	64			
	186.7	25	2.9	7.5			1805				
	140	32	2.2	10			1987				
	93.3	46	1.6	15			2274				
	70	59	1.2	20			2503				
	56	71	1	25			2696				
	46.7	81	1	30			2865				
	120	38	2.2	7.5			<i>NMRV050</i>		<i>802-6</i>	2091	64
	90	49	1.7	10	2302						
	60	69	1.2	15	2635						
	45	89	0.9	20	2900						
	70	61	2.2	20	<i>NMRV063</i>	<i>801-4</i>	3272	65			
	56	73	1.8	25			3524				
	46.7	83	1.9	30			3745				
	35	105	1.4	40			4122				
	28	124	1.1	50			4440				
	23.3	140	0.9	60			4719				
	60	71	2.2	15			<i>NMRV063</i>		<i>802-6</i>	3444	65
	45	90	1.6	20						3791	
	36	109	1.3	25	4084						
	30	123	1.4	30	4339						
	22.5	152	1.1	40	4776						
	35	108	2	40	<i>NMRV075</i>	<i>801-4</i>	4865	66			
	28	129	1.6	50			5241				
	23.3	146	1.4	60			5569				
	17.5	180	1.1	80			6130				
	14	206	0.9	100			6603				
	30	128	2	30	<i>NMRV075</i>	<i>802-6</i>	5122	66			
	22.5	159	1.5	40			5637				
	18	187	1.2	50			6073				
	15	214	1	60			6453				
	18.7	205	1.2	75	<i>PC080+NMRV075</i>	<i>801-4</i>	6000	74			
	15.6	230	1.3	90			6375				
	11.7	284	1	120			7017				
	9.3	332	0.8	150			7380				
	12	306	1.1	75	<i>PC080+NMRV075</i>	<i>802-6</i>	6952	74			
	10	341	1.1	90			7380				
	17.5	189	1.5	80	<i>NMRV090</i>	<i>801-4</i>	6783	67			
	14	221	1.2	100			7306				
	18	198	2	50	<i>NMRV090</i>	<i>802-6</i>	6719	67			
15	224	1.6	60	7140							
11.3	275	1.1	80	7859							
9	315	0.9	100	8180							
15.6	240	2.3	90	<i>PC080+NMRV090</i>	<i>801-4</i>	7054	74				
11.7	297	1.6	120			7764					
9.3	355	1.3	150			8180					
7.8	398	1	180			8180					





<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)	
<b>0.55</b>	10	357	2	90	<i>PC080+NMRV090</i>	<b>802-6</b>	8174	74
	7.5	441	1.4	120			8180	
	6	516	1.1	150			8180	
	5	578	0.9	180			8180	
	17.5	201	2.4	80	<i>NMRV105</i>	<b>801-4</b>	8571	68
	14	236	1.9	100			9232	
	11.3	294	1.8	80	<i>NMRV105</i>	<b>802-6</b>	9931	68
	9	338	1.4	100			10320	
	7.8	425	1.7	180	<i>PC080+NMRV105</i>	<b>801-4</b>	10320	75
	5.8	513	1.2	240			10320	
	4.7	597	1	300			10320	
	7.5	462	2.2	120	<i>PC080+NMRV105</i>	<b>802-6</b>	10320	75
	6	552	1.8	150			10320	
	5	620	1.5	180			10320	
	3.8	756	1	240			10320	
	4.7	639	1.7	300	<i>NMRV050/105</i>	<b>801-4</b>	10320	78
3.5	826	1.2	400	10320				
2.8	984	1	500	10320				
2.3	1181	0.9	600	10320				
1.9	1411	0.8	750	10320				
17.5	201	2.6	80	<i>NMRV110</i>	<b>801-4</b>	8571	69	
14	236	2	100			9232		
11.3	294	1.9	80	<i>NMRV110</i>	<b>802-6</b>	9931	69	
9	338	1.5	100			10320		
7.8	425	1.8	180	<i>PC080+NMRV110</i>	<b>801-4</b>	10320	75	
5.8	513	1.3	240			10320		
4.7	597	1	300			10320		
7.5	462	2.6	120	<i>PC080+NMRV110</i>	<b>802-6</b>	10320	75	
6	552	2	150			10320		
5	620	1.6	180			10320		
3.8	756	1.1	240			10320		
4.7	639	2	300	<i>NMRV050/110</i>	<b>801-4</b>	10320	79	
3.5	826	1.4	400			10320		
2.8	984	1.1	500			10320		
2.3	1181	1	600			10320		
1.9	1411	0.9	750			10320		
3.8	756	1.6	240	<i>PC080+NMRV130</i>	<b>802-6</b>	13500	75	
3	858	1.3	300			13500		
2.8	996	1.6	500	<i>NMRV063/130</i>	<b>801-4</b>	13500	79	
1.9	1471	1.2	750			13500		
1.2	2132	0.8	1200			13500		
0.8	2638	0.8	1800	<i>NMRV063/150</i>	<b>801-4</b>	18000	79	
0.6	3182	0.8	2400			18000		
<b>0.75</b>	280	23	2.7	5	<i>NMRV050</i>	<b>802-4</b>	1577	64
	186.7	34	2.1	7.5			1805	
	140	44	1.6	10			1987	
	93.3	63	1.2	15			2274	
	70	81	0.9	20			2503	



**NMRV**







$P_1$ (kW)	$n_2$ (min <sup>-1</sup> )	$M_2$ (Nm)	f.s.	i	Type		$Fr_2$ (N)	
<b>0.75</b>	93.3	64	2.2	15	<i>NMRV063</i>	<i>802-4</i>	2973	65
	70	83	1.6	20			3272	
	56	100	1.3	25			3524	
	46.7	114	1.4	30			3745	
	35	143	1	40			4122	
	120	52	2.9	7.5	<i>NMRV063</i>	<i>90S-6</i>	2734	65
	90	68	2.3	10			3009	
	60	97	1.6	15			3444	
	45	123	1.2	20			3791	
	36	149	0.9	25			4084	
	30	167	1	30			4339	
	56	102	2	25	<i>NMRV075</i>	<i>802-4</i>	4160	66
	46.7	117	2	30			4421	
	35	147	1.5	40			4865	
	28	177	1.2	50			5241	
	23.3	200	1	60			5569	
	60	98	2.4	15	<i>NMRV075</i>	<i>90S-6</i>	4065	66
	45	126	1.9	20			4474	
	36	153	1.4	25			4820	
	30	174	1.5	30			5122	
	22.5	216	1.1	40			5637	
	18.7	280	0.9	75	<i>PC080+NMRV075</i>	<i>802-4</i>	6000	74
	15.6	313	1	90			6375	
	28	184	1.8	50	<i>NMRV090</i>	<i>802-4</i>	5799	67
	23.3	212	1.5	60			6163	
	17.5	258	1.1	80			6783	
	14	302	0.9	100			7306	
	30	179	2.6	30	<i>NMRV090</i>	<i>90S-6</i>	5667	67
	22.5	226	1.8	40			6238	
	18	271	1.4	50			6719	
	15	306	1.1	60			7140	
	15.6	327	1.7	90	<i>PC080+NMRV090</i>	<i>802-4</i>	7054	74
	11.7	405	1.2	120			7764	
	9.3	483	0.9	150			8180	
	7.8	543	0.7	180			8180	
	17.5	274	1.8	80	<i>NMRV105</i>	<i>802-4</i>	8571	68
	14	322	1.4	100			9232	
	15	325	1.9	60	<i>NMRV105</i>	<i>90S-6</i>	9023	68
	11.3	401	1.3	80			9931	
	9	462	1.1	100			10320	
	11.7	430	1.9	120	<i>PC080+NMRV105</i>	<i>802-4</i>	9811	75
	9.3	506	1.6	150			10320	
	7.8	580	1.2	180			10320	
	5.8	700	0.9	240			10320	
	12.2	393	2.8	73.5	<i>PC090+NMRV105</i>	<i>90S-6</i>	9614	75
	9.2	508	2	98			10320	
	7.3	607	1.6	122.5			10320	
	6.1	682	1.3	147			10320	
	4.6	832	0.9	196			10320	
	4.7	871	1.3	300	<i>NMRV050/105</i>	<i>802-4</i>	10320	78
	3.5	1126	0.9	400			10320	





<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)	
<b>0.75</b>	17.5	274	1.9	80	<i>NMRV110</i>	<b>802-4</b>	8571	69
	14	322	1.5	100			9232	
	15	325	2.1	60	<i>NMRV110</i>	<b>90S-6</b>	9023	69
	11.3	401	1.4	80			9931	
	9	462	1.1	100			10320	
	11.7	430	2.2	120	<i>PC080+NMRV110</i>	<b>802-4</b>	9811	75
	9.3	506	1.7	150			10320	
	7.8	580	1.3	180			10320	
	5.8	700	0.9	240			10320	
	12.2	393	3.2	73.5	<i>PC090+NMRV110</i>	<b>90S-6</b>	9614	75
	9.2	508	2.3	98			10320	
	7.3	607	1.8	122.5			10320	
	6.1	682	1.5	147			10320	
	4.6	832	1	196			10320	
	4.7	871	1.5	300	<i>NMRV050/110</i>	<b>802-4</b>	10320	79
	3.5	1126	1.1	400			10320	
	11.3	407	2.1	80	<i>NMRV130</i>	<b>90S-6</b>	12989	70
	9	470	1.7	100			13500	
	5.8	712	1.4	240	<i>PC080+NMRV130</i>	<b>802-4</b>	13500	75
	4.7	813	1.1	300			13500	
12.2	399	4.4	73.5	<i>PC090+NMRV130</i>	<b>90S-6</b>	12575	75	
9.2	508	3.2	98			13500		
7.3	607	2.6	122.5			13500		
6.1	682	2.1	147			13500		
4.6	832	1.5	196			13500		
3.7	944	1.2	245			13500		
2.8	1358	1.1	500	<i>NMRV063/130</i>	<b>802-4</b>	13500	79	
2.3	1631	1	600			13500		
1.9	2005	0.9	750			13500		
1.6	2283	0.8	900			13500		
2.8	1291	1.8	500	<i>NMRV063/150</i>	<b>802-4</b>	18000	79	
2.3	1529	1.7	600			18000		
1.9	1783	1.3	750			18000		
1.6	2215	0.9	900			18000		
1.2	2680	1	1200			18000		
<b>1.10</b>	120	76	2	7.5	<i>NMRV063</i>	<b>90L-6</b>	2734	65
	90	99	1.5	10			3009	
	60	142	1.1	15			3444	
	45	180	0.8	20			3791	
	186.7	50	2.6	7.5	<i>NMRV063</i>	<b>90S-4</b>	2359	65
	140	65	2	10			2597	
	93.3	93	1.5	15			2973	
	70	122	1.1	20			3272	
	56	146	0.9	25			3524	
	46.7	167	1	30			3745	
	90	100	2.3	10	<i>NMRV075</i>	<b>90L-6</b>	3551	66
	60	144	1.6	15			4065	
	45	184	1.3	20			4474	
	36	225	1	25			4820	
	30	256	1	30			5122	

**NMRV**



<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)	
<b>1.10</b>	93.3	96	2.1	15	<i>NMRV075</i>	<i>90S-4</i>	3509	66
	70	123	1.7	20			3862	
	56	150	1.3	25			4160	
	46.7	171	1.3	30			4421	
	35	216	1	40			4865	
	36	231	1.6	25	<i>NMRV090</i>	<i>90L-6</i>	5333	67
	30	263	1.8	30			5667	
	22.5	331	1.2	40			6238	
	18	397	1	50			6719	
	15	448	0.8	60			7140	
	35	225	1.6	40	<i>NMRV090</i>	<i>90S-4</i>	5383	67
	28	270	1.3	50			5799	
	23.3	311	1	60			6163	
	22.5	345	2	40	<i>NMRV105</i>	<i>90L-6</i>	7882	68
	18	414	1.6	50			8491	
	15	476	1.3	60			9023	
	11.3	588	0.9	80			9931	
	28	281	2.1	50	<i>NMRV105</i>	<i>90S-4</i>	7328	68
	23.3	324	1.7	60			7787	
	17.5	402	1.2	80			8571	
14	473	1	100	9232				
12.2	576	1.9	73.5	<i>PC090+NMRV105</i>	<i>90L-6</i>	9614	75	
9.2	746	1.4	98			10320		
7.3	890	1.1	122.5			10320		
6.1	1000	0.9	147			10320		
19	392	2.2	73.5	<i>PC090+NMRV105</i>	<i>90S-4</i>	8298	75	
14.3	508	1.6	98			9133		
11.4	599	1.3	122.5			9838		
9.5	686	1	147			10320		
7.1	828	0.8	196			10320		
22.5	345	2.3	40	<i>NMRV110</i>	<i>90L-6</i>	7882	69	
18	414	1.8	50			8491		
15	476	1.4	60			9023		
11.3	588	1	80			9931		
28	281	2.3	50	<i>NMRV110</i>	<i>90S-4</i>	7328	69	
23.3	324	1.9	60			7787		
17.5	402	1.3	80			8571		
14	473	1	100			9232		
12.2	576	2.2	73.5	<i>PC090+NMRV110</i>	<i>90L-6</i>	9614	75	
9.2	746	1.6	98			10320		
7.3	890	1.2	122.5			10320		
6.1	1000	1	147			10320		
19	392	2.5	73.5	<i>PC090+NMRV110</i>	<i>90S-4</i>	8298	75	
14.3	508	1.8	98			9133		
11.4	599	1.5	122.5			9838		
9.5	686	1.1	147			10320		
7.1	828	0.8	196			10320		
11.3	598	1.4	80	<i>NMRV130</i>	<i>90L-6</i>	12989	70	
9	689	1.1	100			13500		
17.5	408	2.1	80	<i>NMRV130</i>	<i>90S-4</i>	11210	70	
14	480	1.5	100			12076		





$P_1$ (kW)	$n_2$ (min <sup>-1</sup> )	$M_2$ (Nm)	f.s.	i	Type		$Fr_2$ (N)	
<b>1.10</b>	12.2	585	3	73.5	<i>PC090+NMRV130</i>	<b>90L-6</b>	12575	75
	9.2	746	2.2	98			13500	
	7.3	890	1.7	122.5			13500	
	6.1	1000	1.4	147			13500	
	4.6	1220	1	196			13500	
	19	398	3.5	73.5	<i>PC090+NMRV130</i>	<b>90S-4</b>	10853	75
	14.3	508	2.6	98			11945	
	11.4	608	2	122.5			12868	
	9.5	686	1.6	147			13500	
	7.1	843	1.2	196			13500	
	5.7	962	0.9	245	13500			
	4.7	1312	1.3	300	<i>NMRV063/130</i>	<b>90S-4</b>	13500	79
	3.5	1671	1	400			13500	
	2.8	1991	0.8	500			13500	
	9.3	753	3.1	150	<i>NMRV063/150</i>	<b>90S-4</b>	18000	79
	7	966	2.4	200			18000	
	5.6	1175	1.7	250			18000	
	4.7	1364	1.7	300			18000	
	3.5	1619	1.6	400			18000	
	2.8	1893	1.2	500			18000	
2.3	2242	1.2	600	18000				
1.9	2616	0.9	750	18000				
<b>1.50</b>	186.7	68	1.9	7.5			<i>NMRV063</i>	
	140	89	1.5	10	2597			
	93.3	127	1.1	15	2973			
	70	166	0.8	20	3272			
	120	105	2	7.5	<i>NMRV075</i>	<b>100L-6</b>	3227	66
	90	137	1.7	10			3551	
	60	196	1.2	15			4065	
	140	90	2.2	10	<i>NMRV075</i>	<b>90L-4</b>	3065	66
	93.3	130	1.5	15			3509	
	70	168	1.3	20			3862	
	56	205	1	25			4160	
	46.7	233	1	30			4421	
	90	138	2.7	10	<i>NMRV090</i>	<b>100L-6</b>	3929	67
	60	201	2.1	15			4498	
	45	258	1.5	20			4951	
	36	314	1.2	25			5333	
	30	358	1.3	30			5667	
	70	172	2.1	20	<i>NMRV090</i>	<b>90L-4</b>	4273	67
	56	210	1.6	25			4603	
	46.7	239	1.7	30			4891	
	35	307	1.2	40			5383	
	28	368	0.9	50			5799	
	23.3	424	0.8	60			6163	
	45	264	2.4	20			<i>NMRV105</i>	
	36	322	2	25	6739			
	30	363	2	30	7161			
	22.5	471	1.5	40	7882			
	18	565	1.2	50	8491			
	15	649	1	60	9023			
	35	319	1.9	40	<i>NMRV105</i>	<b>90L-4</b>	6803	68
	28	384	1.6	50			7328	
	23.3	442	1.3	60			7787	
	17.5	548	0.9	80			8571	

**NMRV**





<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)	
<b>1.50</b>	19.3	535	1.6	73	<i>PC090+NMRV105</i>	<i>90L-4</i>	8298	
	14.5	693	1.2	96.8			9133	
	11.6	817	1	121			9838	
	9.6	936	0.8	145.2			10320	
	45	264	2.7	20	<i>NMRV110</i>	<i>100L-6</i>	6256	
	36	322	2.4	25			6739	
	30	363	2.3	30			7161	
	22.5	471	1.7	40			7882	
	18	565	1.3	50			8491	
	15	649	1.1	60			9023	
	35	319	2.2	40	<i>NMRV110</i>	<i>90L-4</i>	6803	
	28	384	1.7	50			7328	
	23.3	442	1.4	60			7787	
	17.5	548	0.9	80			8571	
	19	535	1.9	73.5	<i>PC090+NMRV110</i>	<i>90L-4</i>	8298	
	14.3	693	1.3	98			9133	
11.4	817	1.1	122.5	9838				
9.5	936	0.8	147	10320				
22.5	478	2.3	40	<i>NMRV130</i>	<i>100L-6</i>	10309		
18	573	1.8	50			11105		
15	659	1.4	60			11801		
11.3	815	1.1	80			12989		
17.5	557	1.5	80	<i>NMRV130</i>	<i>90L-4</i>	11210		
14	655	1.1	100			12076		
19	542	2.6	73.5	<i>PC090+NMRV130</i>	<i>90L-4</i>	10853		
14.3	693	1.9	98			11945		
11.4	830	1.5	122.5			12868		
9.5	936	1.1	147			13500		
7.1	1149	0.8	196			13500		
4.7	1789	1	300			<i>NMRV063/130</i>	<i>90L-4</i>	13500
3.5	2279	0.7	400	13500				
9.3	1026	2.3	150	<i>NMRV063/150</i>	<i>90L-4</i>	18000		
7	1317	1.8	200			18000		
5.6	1602	1.3	250			18000		
4.7	1860	1.3	300			18000		
3.5	2208	1.2	400			18000		
2.8	2582	0.9	500			18000		
2.3	3057	0.9	600			18000		
<b>2.20</b>	186.7	100	1.8			7.5	<i>NMRV075</i>	<i>100L1-4</i>
	140	132	1.5	10	3065			
	93.3	191	1	15	3509			
	186.7	101	2.9	7.5	<i>NMRV090</i>	<i>100L1-4</i>	3081	
	140	134	2.3	10			3391	
	93.3	194	1.9	15			3882	
	70	252	1.4	20			4273	
	56	308	1.1	25			4603	
	46.7	351	1.2	30			4891	
	120	156	2.2	7.5	<i>NMRV090</i>	<i>112M-6</i>	3570	
	90	203	1.8	10			3929	
	60	294	1.4	15			4498	
	45	378	1	20			4951	





<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)	
<b>2.20</b>	70	255	2.2	20	<i>NMRV105</i>	<i>100L1-4</i>	5399	68
	56	315	1.9	25			5816	
	46.7	356	1.8	30			6181	
	35	468	1.3	40			6803	
	28	563	1.1	50			7328	
23.3	648	0.9	60	7787				
	90	205	3	10	<i>NMRV105</i>	<i>112M-6</i>	4965	68
	60	298	2.2	15			5684	
	45	388	1.6	20			6256	
	36	473	1.4	25			6739	
	30	532	1.4	30			7161	
	70	255	2.5	20	<i>NMRV110</i>	<i>100L1-4</i>	5399	69
	56	315	2.2	25			5816	
	46.7	356	2	30			6181	
	35	468	1.5	40			6803	
	28	563	1.2	50			7328	
23.3	648	1	60	7787				
	90	205	3.5	10	<i>NMRV110</i>	<i>112M-6</i>	4965	69
	60	298	2.6	15			5684	
	45	388	1.9	20			6256	
	36	473	1.6	25			6739	
	30	532	1.6	30			7161	
	35	468	2.2	40	<i>NMRV130</i>	<i>100L1-4</i>	8897	70
	28	563	1.7	50			9584	
	23.3	648	1.4	60			10185	
	17.5	816	1	80			11210	
	36	479	2.2	25	<i>NMRV130</i>	<i>112M-6</i>	8814	70
	30	546	2.1	30			9366	
	22.5	700	1.6	40			10309	
	18	840	1.2	50			11105	
	15	966	1	60			11801	
	28	570	2.5	50	<i>NMRV150</i>	<i>100L1-4</i>	13103	71
	23.3	657	1.9	60			13924	
	17.5	816	1.4	80			15325	
	14	960	1	100			16508	
<b>3.00</b>	186.7	137	1.4	7.5	<i>NMRV075</i>	<i>100L2-4</i>	2785	66
	140	180	1.1	10			3065	
	93.3	261	0.8	15			3509	
	186.7	138	2.1	7.5	<i>NMRV090</i>	<i>100L2-4</i>	3081	67
	140	182	1.7	10			3391	
	93.3	264	1.4	15			3882	
	70	344	1	20			4273	
	56	420	0.8	25			4603	
	46.7	479	0.9	30			4891	
	93.3	264	2.2	15	<i>NMRV105</i>	<i>100L2-4</i>	4905	68
	70	348	1.6	20			5399	
	56	430	1.4	25			5816	
	46.7	485	1.3	30			6181	
	35	638	1	40			6803	
	28	767	0.8	50			7328	
	120	212	2.7	7.5	<i>NMRV105</i>	<i>132S-6</i>	4511	68
	90	280	2.2	10			4965	
	60	406	1.6	15			5684	
	45	528	1.2	20			6256	

**NMRV**



<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)		
<b>3.00</b>	93.3	264	2.5	15	<i>NMRV110</i>	<i>100L2-4</i>	4905	69	
	70	348	1.9	20			5399		
	56	430	1.6	25			5816		
	46.7	485	1.5	30			6181		
	35	638	1.1	40			6803		
	28	767	0.9	50			7328		
	120	212	3.1	7.5	<i>NMRV110</i>	<i>132S-6</i>	4511		69
	90	280	2.5	10			4965		
	60	406	1.9	15			5684		
	45	528	1.4	20			6256		
	56	430	2.2	25	<i>NMRV130</i>	<i>100L2-4</i>	7607	70	
	46.7	491	2.1	30			8084		
	35	638	1.6	40			8897		
	28	767	1.3	50			9584		
	23.3	884	1	60			10185		
	17.5	1113	0.8	80			11210		
	90	280	3.4	10	<i>NMRV130</i>	<i>132S-6</i>	6494		70
	60	406	2.6	15			7434		
	45	535	1.9	20			8182		
	36	653	1.6	25			8814		
30	745	1.6	30			9366			
22.5	955	1.2	40			10309			
	28	778	1.8	50	<i>NMRV150</i>	<i>100L2-4</i>	13103	71	
	23.3	896	1.4	60			13924		
	17.5	1113	1	80			15325		
	14	1310	0.8	100			16508		
<b>4.00</b>	186.7	182	1	7.5	<i>NMRV075</i>	<i>112M-4</i>	2785	66	
	140	240	0.8	10			3065		
		186.7	184	1.6	7.5	<i>NMRV090</i>	<i>112M-4</i>	3081	67
		140	243	1.3	10			3391	
		93.3	352	1	15			3882	
		70	458	0.8	20			4273	
		140	243	2.1	10	<i>NMRV105</i>	<i>112M-4</i>	4285	68
		93.3	352	1.6	15			4905	
		70	464	1.2	20			5399	
		56	573	1	25			5816	
46.7		647	1	30			6181		
	120	283	2	7.5	<i>NMRV105</i>	<i>132M1-6</i>	4511	68	
	90	374	1.7	10			4965		
	60	541	1.2	15			5684		
	140	243	2.5	10	<i>NMRV110</i>	<i>112M-4</i>	4285	69	
	93.3	352	1.9	15			4905		
	70	464	1.4	20			5399		
	56	573	1.2	25			5816		
	46.7	647	1.1	30			6181		
	120	283	2.3	7.5	<i>NMRV110</i>	<i>132M1-6</i>	4511	69	
	90	374	1.9	10			4965		
	60	541	1.4	15			5684		





$P_1$ (kW)	$n_2$ (min <sup>-1</sup> )	$M_2$ (Nm)	f.s.	i	Type		$Fr_2$ (N)		
<b>4.00</b>	56	573	1.6	25	<i>NMRV130</i>	<i>112M-4</i>	7607	70	
	46.7	655	1.6	30			8084		
	35	851	1.2	40			8897		
	28	1023	1	50			9584		
	23.3	1179	0.8	60			10185		
	120	287	3.1	7.5	<i>NMRV130</i>	<i>132M1-6</i>	5901	70	
	90	374	2.6	10			6494		
	60	541	2	15			7434		
	45	713	1.5	20			8182		
	36	870	1.2	25			8814		
	28	1037	1.4	50	<i>NMRV150</i>	<i>112M-4</i>	13103	71	
	23.3	1195	1.1	60			13924		
	17.5	1484	0.8	80			15325		
	<b>5.50</b>	186.7	253	1.9	7.5	<i>NMRV105</i>	<i>132S-4</i>	3893	68
		140	334	1.6	10			4285	
93.3		484	1.2	15	4905				
70		638	0.9	20	5399				
186.7		253	2.2	7.5	<i>NMRV110</i>	<i>132S-4</i>	3893	69	
140		334	1.8	10			4285		
93.3		484	1.4	15			4905		
70		638	1	20			5399		
140		334	2.5	10	<i>NMRV130</i>	<i>132S-4</i>	5605	70	
93.3		490	1.9	15			6416		
70		645	1.4	20			7062		
56		788	1.2	25			7607		
46.7		900	1.2	30			8084		
35		1171	0.9	40			8897		
70		645	2	20			<i>NMRV150</i>		<i>132S-4</i>
56		788	1.5	25	10400				
46.7		934	1.3	30	11051				
35		1171	1.3	40	12163				
28		1426	1	50	13103				
23.3		1643	0.8	60	13924				
186.7		345	1.4	7.5	<i>NMRV105</i>	<i>132M-4</i>		3893	
140		455	1.1	10			4285		
93.3		660	0.9	15			4905		
186.7		345	1.6	7.5	<i>NMRV110</i>	<i>132M-4</i>	3893	69	
140		455	1.3	10			4285		
93.3		660	1	15			4905		
186.7		349	2.1	7.5	<i>NMRV130</i>	<i>132M-4</i>	5092	70	
140	455	1.8	10	5605					
93.3	668	1.4	15	6416					
70	880	1	20	7062					
56	1074	0.9	25	7607					
46.7	1228	0.8	30	8084					
35	1596	0.7	40	8897					
70	880	1.5	20	<i>NMRV150</i>	<i>132M-4</i>	9654	71		
56	1074	1.1	25			10400			
46.7	1274	0.9	30			11051			
35	1596	1	40			12163			

**NMRV**






<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>f.s.</b>	<b>i</b>	<b>Type</b>		<b>Fr<sub>2</sub></b> (N)	
<b>11.00</b>	186.7	512	2.3	7.5	<i>NMRV150</i>	<i>160M-4</i>	6962	71
	140	675	1.8	10			7663	
	93.3	990	1.3	15			8771	
	70	1291	1	20			9654	
	56	1576	0.8	25			10400	
<b>15.00</b>	186.7	698	1.7	7.5	<i>NMRV150</i>	<i>160L-4</i>	6962	71
	140	921	1.3	10			7663	
	93.3	1351	0.9	15			8771	
	70	1760	0.7	20			9654	

2.13. *NRV* 성능표


2.13. *NRV* Performance

**n<sub>1</sub>=1400**

<b>M<sub>2</sub></b> (Nm)	<b>i</b>	<b>P<sub>1</sub></b> (Nm)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>Type</b>	<b>Fr<sub>2</sub></b> (N)	<b>Fr<sub>1</sub></b> (N)	
<b>18</b>	5	0.61	280.0	<b>NRV030</b>	597	150	81
<b>18</b>	7.5	0.41	186.7		683	150	
<b>18</b>	10	0.32	140.0		752	169	
<b>18</b>	15	0.23	93.3		861	169	
<b>18</b>	20	0.18	70.0		948	190	
<b>21</b>	25	0.18	56.0		1021	210	
<b>20</b>	30	0.15	46.7		1085	210	
<b>18</b>	40	0.11	35.0		1194	210	
<b>17</b>	50	0.09	28.0		1286	210	
<b>16</b>	60	0.08	23.3		1367	210	
<b>13</b>	80	0.05	17.5	1504	210		
<b>34</b>	5	1.1	280.0	<b>NRV040</b>	1149	250	81
<b>40</b>	7.5	0.90	186.7		1315	294	
<b>40</b>	10	0.69	140.0		1447	331	
<b>40</b>	15	0.48	93.3		1657	331	
<b>39</b>	20	0.37	70.0		1824	350	
<b>38</b>	25	0.30	56.0		1964	350	
<b>45</b>	30	0.31	46.7		2087	350	
<b>41</b>	40	0.23	35.0		2298	350	
<b>39</b>	50	0.18	28.0		2475	350	
<b>36</b>	60	0.15	23.3		2630	350	
<b>33</b>	80	0.12	17.5		2895	350	
<b>29</b>	100	0.09	14.0		3118	350	
<b>62</b>	5	2.0	280.0	<b>NRV050</b>	1577	350	81
<b>71</b>	7.5	1.6	186.7		1805	401	
<b>72</b>	10	1.2	140.0		1987	490	
<b>74</b>	15	0.88	93.3		2274	490	
<b>73</b>	20	0.68	70.0		2503	490	
<b>70</b>	25	0.54	56.0		2696	490	
<b>84</b>	30	0.57	46.7		2865	490	
<b>76</b>	40	0.42	35.0		3153	490	
<b>73</b>	50	0.34	28.0		3397	490	
<b>68</b>	60	0.28	23.3		3610	490	
<b>65</b>	80	0.22	17.5		3973	490	
<b>55</b>	100	0.16	14.0		4280	490	
<b>128</b>	7.5	2.8	186.7		<b>NRV063</b>	2359	
<b>130</b>	10	2.2	140.0	2597		571	
<b>140</b>	15	1.6	93.3	2973		615	
<b>135</b>	20	1.2	70.0	3272		667	
<b>130</b>	25	1.0	56.0	3524		700	
<b>160</b>	30	1.1	46.7	3745		700	
<b>145</b>	40	0.76	35.0	4122		700	
<b>135</b>	50	0.60	28.0	4440		700	
<b>130</b>	60	0.51	23.3	4719		700	
<b>122</b>	80	0.39	17.5	5193		700	
<b>118</b>	100	0.34	14.0	5595		700	
<b>185</b>	7.5	4.1	186.7	<b>NRV075</b>	2785	700	81
<b>195</b>	10	3.2	140.0		3065	830	
<b>200</b>	15	2.3	93.3		3509	851	
<b>210</b>	20	1.9	70.0		3862	980	
<b>200</b>	25	1.5	56.0		4160	980	
<b>230</b>	30	1.5	46.7		4421	980	
<b>220</b>	40	1.1	35.0		4865	980	
<b>210</b>	50	0.89	28.0		5241	980	
<b>200</b>	60	0.75	23.3		5569	980	
<b>190</b>	80	0.58	17.5		6130	980	
<b>180</b>	100	0.48	14.0		6603	980	




**n<sub>1</sub>=1400**

<b>M<sub>2</sub></b> (Nm)	<b>i</b>	<b>P<sub>1</sub></b> (Nm)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>Type</b>	<b>Fr<sub>2</sub></b> (N)	<b>Fr<sub>1</sub></b> (N)	
<b>290</b>	7.5	6.3	186.7	<b>NRV090</b>	3081	900	81
<b>310</b>	10	5.1	140.0		3391	1082	
<b>360</b>	15	4.1	93.3		3882	1257	
<b>355</b>	20	3.1	70.0		4273	1270	
<b>340</b>	25	2.4	56.0		4603	1270	
<b>410</b>	30	2.6	46.7		4891	1270	
<b>360</b>	40	1.8	35.0		5383	1270	
<b>340</b>	50	1.4	28.0		5799	1270	
<b>320</b>	60	1.1	23.3		6163	1270	
<b>285</b>	80	0.83	17.5		6783	1270	
<b>270</b>	100	0.67	14.0		7306	1270	
<b>480</b>	7.5	10.4	186.7	<b>NRV105</b>	3893	1200	81
<b>520</b>	10	8.6	140.0		4285	1463	
<b>570</b>	15	6.5	93.3		4905	1603	
<b>560</b>	20	4.8	70.0		5399	1700	
<b>590</b>	25	4.1	56.0		5816	1700	
<b>630</b>	30	3.9	46.7		6181	1700	
<b>610</b>	40	2.9	35.0		6803	1700	
<b>600</b>	50	2.3	28.0		7328	1700	
<b>560</b>	60	1.9	23.3		7787	1700	
<b>490</b>	80	1.3	17.5		8571	1700	
<b>460</b>	100	1.1	14.0		9232	1700	
<b>552</b>	7.5	12.0	186.7	<b>NRV110</b>	3893	1200	81
<b>598</b>	10	9.8	140.0		4285	1463	
<b>656</b>	15	7.5	93.3		4905	1604	
<b>644</b>	20	5.6	70.0		5399	1700	
<b>679</b>	25	4.7	56.0		5816	1700	
<b>725</b>	30	4.5	46.7		6181	1700	
<b>702</b>	40	3.3	35.0		6803	1700	
<b>660</b>	50	2.6	28.0		7328	1700	
<b>616</b>	60	2.1	23.3		7787	1700	
<b>515</b>	80	1.4	17.5		8571	1700	
<b>483</b>	100	1.1	14.0		9232	1700	
<b>750</b>	7.5	16.1	186.7	<b>NRV130</b>	5092	1500	81
<b>820</b>	10	13.5	140.0		5605	1845	
<b>920</b>	15	10.3	93.3		6416	2070	
<b>910</b>	20	7.8	70.0		7062	2100	
<b>930</b>	25	6.5	56.0		7607	2100	
<b>1040</b>	30	6.4	46.7		8084	2100	
<b>1050</b>	40	4.9	35.0		8897	2100	
<b>980</b>	50	3.8	28.0		9584	2100	
<b>900</b>	60	3.1	23.3		10185	2100	
<b>840</b>	80	2.3	17.5		11210	2100	
<b>740</b>	100	1.7	14.0		12076	2100	
<b>1200</b>	7.5	25.8	186.7	<b>NRV150</b>	6962	1950	81
<b>1240</b>	10	20.2	140.0		7663	2267	
<b>1250</b>	15	13.9	93.3		8771	2285	
<b>1300</b>	20	11.1	70.0		9654	2674	
<b>1200</b>	25	8.4	56.0		10400	2800	
<b>1200</b>	30	7.1	46.7		11051	2800	
<b>1550</b>	40	7.3	35.0		12163	2800	
<b>1400</b>	50	5.4	28.0		13103	2800	
<b>1260</b>	60	4.2	23.3		13924	2800	
<b>1150</b>	80	3.1	17.5		15325	2800	
<b>1000</b>	100	2.3	14.0		16508	2800	

☆

**n<sub>1</sub>=900**


<b>M<sub>2</sub></b> (Nm)	<b>i</b>	<b>P<sub>1</sub></b> (Nm)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>Type</b>	<b>Fr<sub>2</sub></b> (N)	<b>Fr<sub>1</sub></b> (N)	
<b>20</b>	5	0.44	180.0	<b>NRV030</b>	692	175	81
<b>20</b>	7.5	0.30	120.0		792	175	
<b>20</b>	10	0.24	90.0		871	197	
<b>20</b>	15	0.17	60.0		997	197	
<b>20</b>	20	0.13	45.0		1098	210	
<b>23</b>	25	0.14	36.0		1183	210	
<b>21</b>	30	0.11	30.0		1257	210	
<b>20</b>	40	0.09	22.5		1383	210	
<b>18</b>	50	0.07	18.0		1490	210	
<b>17</b>	60	0.06	15.0		1583	210	
<b>15</b>	80	0.04	11.3	1743	210		
<b>40</b>	5	0.87	180.0	<b>NRV040</b>	1331	290	81
<b>44</b>	7.5	0.65	120.0		1524	319	
<b>44</b>	10	0.50	90.0		1677	350	
<b>45</b>	15	0.36	60.0		1920	350	
<b>44</b>	20	0.28	45.0		2113	350	
<b>43</b>	25	0.23	36.0		2276	350	
<b>49</b>	30	0.23	30.0		2419	350	
<b>45</b>	40	0.17	22.5		2662	350	
<b>42</b>	50	0.14	18.0		2868	350	
<b>39</b>	60	0.11	15.0		3047	350	
<b>35</b>	80	0.09	11.3	3354	350		
<b>32</b>	100	0.07	9.0	3490	350		
<b>75</b>	5	1.6	180.0	<b>NRV050</b>	1827	400	81
<b>84</b>	7.5	1.2	120.0		2091	448	
<b>84</b>	10	0.94	90.0		2302	490	
<b>84</b>	15	0.67	60.0		2635	490	
<b>77</b>	20	0.48	45.0		2900	490	
<b>75</b>	25	0.39	36.0		3124	490	
<b>90</b>	30	0.42	30.0		3320	490	
<b>82</b>	40	0.31	22.5		3654	490	
<b>77</b>	50	0.25	18.0		3936	490	
<b>72</b>	60	0.21	15.0		4183	490	
<b>68</b>	80	0.16	11.3	4604	490		
<b>56</b>	100	0.12	9.0	4840	490		
<b>151</b>	7.5	2.2	120.0	<b>NRV063</b>	2734	580	81
<b>153</b>	10	1.7	90.0		3009	661	
<b>155</b>	15	1.2	60.0		3444	670	
<b>148</b>	20	0.91	45.0		3791	700	
<b>137</b>	25	0.69	36.0		4084	700	
<b>175</b>	30	0.79	30.0		4339	700	
<b>160</b>	40	0.58	22.5		4776	700	
<b>145</b>	50	0.45	18.0		5145	700	
<b>138</b>	60	0.37	15.0		5467	700	
<b>128</b>	80	0.29	11.3		6018	700	
<b>124</b>	100	0.25	9.0	6270	700		
<b>215</b>	7.5	3.1	120.0	<b>NRV075</b>	3227	810	81
<b>230</b>	10	2.5	90.0		3551	975	
<b>235</b>	15	1.8	60.0		4065	980	
<b>235</b>	20	1.4	45.0		4474	980	
<b>215</b>	25	1.1	36.0		4820	980	
<b>260</b>	30	1.1	30.0		5122	980	
<b>240</b>	40	0.83	22.5		5637	980	
<b>220</b>	50	0.65	18.0		6073	980	
<b>210</b>	60	0.54	15.0		6453	980	
<b>200</b>	80	0.43	11.3		7103	980	
<b>190</b>	100	0.36	9.0	7380	980		

**NMRV**

**n<sub>1</sub>=900**


<b>M<sub>2</sub></b> (Nm)	<b>i</b>	<b>P<sub>1</sub></b> (Nm)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>Type</b>	<b>Fr<sub>2</sub></b> (N)	<b>Fr<sub>1</sub></b> (N)	<b>↔</b>
<b>340</b>	7.5	4.8	120.0	<b>NRV090</b>	3570	1040	81
<b>370</b>	10	4.0	90.0		3929	1270	
<b>420</b>	15	3.1	60.0		4498	1270	
<b>390</b>	20	2.3	45.0		4951	1270	
<b>370</b>	25	1.8	36.0		5333	1270	
<b>460</b>	30	1.9	30.0		5667	1270	
<b>410</b>	40	1.4	22.5		6238	1270	
<b>390</b>	50	1.1	18.0		6719	1270	
<b>350</b>	60	0.86	15.0		7140	1270	
<b>315</b>	80	0.63	11.3		7859	1270	
<b>280</b>	100	0.49	9.0		8180	1270	
<b>565</b>	7.5	8.0	120.0	<b>NRV105</b>	4511	1390	81
<b>620</b>	10	6.6	90.0		4965	1700	
<b>660</b>	15	4.9	60.0		5684	1700	
<b>630</b>	20	3.6	45.0		6256	1700	
<b>660</b>	25	3.1	36.0		6739	1700	
<b>730</b>	30	3.0	30.0		7161	1700	
<b>690</b>	40	2.2	22.5		7882	1700	
<b>680</b>	50	1.8	18.0		8491	1700	
<b>620</b>	60	1.4	15.0		9023	1700	
<b>540</b>	80	1.0	11.3		9931	1700	
<b>490</b>	100	0.80	9.0		10320	1700	
<b>650</b>	7.5	9.2	120.0	<b>NRV110</b>	4511	1390	81
<b>713</b>	10	7.6	90.0		4965	1700	
<b>759</b>	15	5.6	60.0		5684	1700	
<b>725</b>	20	4.1	45.0		6256	1700	
<b>759</b>	25	3.5	36.0		6739	1700	
<b>840</b>	30	3.5	30.0		7161	1700	
<b>794</b>	40	2.5	22.5		7882	1700	
<b>748</b>	50	2.0	18.0		8491	1700	
<b>682</b>	60	1.6	15.0		9023	1700	
<b>567</b>	80	1.1	11.3		9931	1700	
<b>515</b>	100	0.84	9.0		10320	1700	
<b>880</b>	7.5	12.3	120.0	<b>NRV130</b>	5901	1740	81
<b>960</b>	10	10.3	90.0		6494	2100	
<b>1060</b>	15	7.8	60.0		7434	2100	
<b>1040</b>	20	5.8	45.0		8182	2100	
<b>1050</b>	25	4.8	36.0		8814	2100	
<b>1170</b>	30	4.7	30.0		9366	2100	
<b>1100</b>	40	3.5	22.5		10309	2100	
<b>1050</b>	50	2.7	18.0		11105	2100	
<b>940</b>	60	2.1	15.0		11801	2100	
<b>860</b>	80	1.6	11.3		12989	2100	
<b>780</b>	100	1.2	9.0		13500	2100	
<b>1400</b>	7.5	19.5	120.0	<b>NRV150</b>	8067	2270	81
<b>1480</b>	10	15.7	90.0		8878	2700	
<b>1450</b>	15	10.5	60.0		10163	2645	
<b>1500</b>	20	8.4	45.0		11186	2800	
<b>1380</b>	25	6.3	36.0		12050	2800	
<b>1400</b>	30	5.4	30.0		12805	2800	
<b>1800</b>	40	5.7	22.5		14094	2800	
<b>1600</b>	50	4.1	18.0		15182	2800	
<b>1440</b>	60	3.2	15.0		16133	2800	
<b>1300</b>	80	2.4	11.3		17757	2800	
<b>1150</b>	100	1.8	9.0		18000	2800	

**n<sub>1</sub>=500**

<b>M<sub>2</sub></b> (Nm)	<b>i</b>	<b>P<sub>1</sub></b> (Nm)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>Type</b>	<b>Fr<sub>2</sub></b> (N)	<b>Fr<sub>1</sub></b> (N)	
<b>24</b>	5	0.30	100.0	<b>NRV030</b>	841	210	81
<b>24</b>	7.5	0.21	66.7		963	210	
<b>24</b>	10	0.16	50.0		1060	210	
<b>24</b>	15	0.12	33.3		1213	210	
<b>23</b>	20	0.09	25.0		1336	210	
<b>29</b>	25	0.10	20.0		1439	210	
<b>26</b>	30	0.08	16.7		1529	210	
<b>23</b>	40	0.06	12.5		1683	210	
<b>21</b>	50	0.05	10.0		1813	210	
<b>19</b>	60	0.04	8.3		1830	210	
<b>17</b>	80	0.03	6.3		1830	210	
<b>49</b>	5	0.60	100.0	<b>NRV040</b>	1619	350	81
<b>54</b>	7.5	0.45	66.7		1853	350	
<b>54</b>	10	0.35	50.0		2040	350	
<b>55</b>	15	0.26	33.3		2335	350	
<b>52</b>	20	0.19	25.0		2570	350	
<b>49</b>	25	0.15	20.0		2769	350	
<b>58</b>	30	0.16	16.7		2942	350	
<b>53</b>	40	0.12	12.5		3238	350	
<b>49</b>	50	0.10	10.0		3488	350	
<b>46</b>	60	0.08	8.3		3490	350	
<b>40</b>	80	0.06	6.3		3490	350	
<b>36</b>	100	0.05	5.0		3490	350	
<b>92</b>	5	1.1	100.0	<b>NRV050</b>	2222	490	81
<b>103</b>	7.5	0.86	66.7		2544	490	
<b>103</b>	10	0.67	50.0		2800	490	
<b>103</b>	15	0.47	33.3		3205	490	
<b>93</b>	20	0.33	25.0		3528	490	
<b>91</b>	25	0.28	20.0		3800	490	
<b>108</b>	30	0.29	16.7		4038	490	
<b>98</b>	40	0.22	12.5		4445	490	
<b>91</b>	50	0.17	10.0		4788	490	
<b>83</b>	60	0.14	8.3		4840	490	
<b>75</b>	80	0.11	6.3		4840	490	
<b>65</b>	100	0.09	5.0		4840	490	
<b>184</b>	7.5	1.5	66.7	<b>NRV063</b>	3325	700	81
<b>185</b>	10	1.2	50.0		3660	700	
<b>187</b>	15	0.85	33.3		4190	700	
<b>178</b>	20	0.63	25.0		4611	700	
<b>164</b>	25	0.48	20.0		4967	700	
<b>200</b>	30	0.54	16.7		5279	700	
<b>185</b>	40	0.40	12.5		5810	700	
<b>173</b>	50	0.32	10.0		6259	700	
<b>160</b>	60	0.26	8.3		6270	700	
<b>137</b>	80	0.19	6.3		6270	700	
<b>128</b>	100	0.16	5.0		6270	700	
<b>260</b>	7.5	2.1	66.7	<b>NRV075</b>	3925	980	81
<b>270</b>	10	1.7	50.0		4320	980	
<b>280</b>	15	1.2	33.3		4945	980	
<b>285</b>	20	0.98	25.0		5443	980	
<b>255</b>	25	0.73	20.0		5863	980	
<b>300</b>	30	0.77	16.7		6231	980	
<b>280</b>	40	0.58	12.5		6858	980	
<b>250</b>	50	0.44	10.0		7380	980	
<b>240</b>	60	0.37	8.3		7380	980	
<b>215</b>	80	0.29	6.3		7380	980	
<b>210</b>	100	0.24	5.0		7380	980	

**NMRV**


**n<sub>1</sub>=500**

<b>M<sub>2</sub></b> (Nm)	<b>i</b>	<b>P<sub>1</sub></b> (Nm)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>Type</b>	<b>Fr<sub>2</sub></b> (N)	<b>Fr<sub>1</sub></b> (N)	
<b>410</b>	7.5	3.3	66.7	<b>NRV090</b>	4343	1270	81
<b>435</b>	10	2.7	50.0		4780	1270	
<b>490</b>	15	2.1	33.3		5472	1270	
<b>470</b>	20	1.6	25.0		6022	1270	
<b>440</b>	25	1.2	20.0		6487	1270	
<b>550</b>	30	1.4	16.7		6894	1270	
<b>480</b>	40	0.95	12.5		7588	1270	
<b>450</b>	50	0.75	10.0		8174	1270	
<b>400</b>	60	0.59	8.3		8180	1270	
<b>365</b>	80	0.45	6.3		8180	1270	
<b>330</b>	100	0.35	5.0		8180	1270	
<b>690</b>	7.5	5.5	66.7	<b>NRV105</b>	5488	1700	81
<b>740</b>	10	4.6	50.0		6040	1700	
<b>790</b>	15	3.4	33.3		6914	1700	
<b>750</b>	20	2.5	25.0		7610	1700	
<b>790</b>	25	2.1	20.0		8198	1700	
<b>870</b>	30	2.1	16.7		8711	1700	
<b>810</b>	40	1.5	12.5		9588	1700	
<b>800</b>	50	1.3	10.0		10320	1700	
<b>710</b>	60	0.98	8.3		10320	1700	
<b>630</b>	80	0.72	6.3		10320	1700	
<b>570</b>	100	0.56	5.0		10320	1700	
<b>794</b>	7.5	6.4	66.7	<b>NRV110</b>	5488	1700	81
<b>851</b>	10	5.2	50.0		6040	1700	
<b>909</b>	15	3.9	33.3		6914	1700	
<b>863</b>	20	2.8	25.0		7610	1700	
<b>909</b>	25	2.4	20.0		8198	1700	
<b>1000</b>	30	2.4	16.7		8711	1700	
<b>932</b>	40	1.7	12.5		9588	1700	
<b>880</b>	50	1.4	10.0		10320	1700	
<b>781</b>	60	1.1	8.3		10320	1700	
<b>662</b>	80	0.76	6.3		10320	1700	
<b>599</b>	100	0.59	5.0		10320	1700	
<b>1080</b>	7.5	8.6	66.7	<b>NRV130</b>	7178	2100	81
<b>1160</b>	10	7.1	50.0		7900	2100	
<b>1300</b>	15	5.5	33.3		9043	2100	
<b>1230</b>	20	4.0	25.0		9953	2100	
<b>1200</b>	25	3.2	20.0		10722	2100	
<b>1400</b>	30	3.3	16.7		11394	2100	
<b>1300</b>	40	2.4	12.5		12540	2100	
<b>1220</b>	50	1.9	10.0		13500	2100	
<b>1070</b>	60	1.5	8.3		13500	2100	
<b>970</b>	80	1.1	6.3		13500	2100	
<b>860</b>	100	0.85	5.0		13500	2100	
<b>1700</b>	7.5	13.5	66.7	<b>NRV150</b>	9812	2800	81
<b>1780</b>	10	10.7	50.0		10800	2800	
<b>1730</b>	15	7.2	33.3		12363	2800	
<b>1820</b>	20	5.9	25.0		13607	2800	
<b>1630</b>	25	4.3	20.0		14658	2800	
<b>1670</b>	30	3.8	16.7		15576	2800	
<b>2120</b>	40	3.9	12.5		17144	2800	
<b>1870</b>	50	2.9	10.0		18000	2800	
<b>1680</b>	60	2.3	8.3		18000	2800	
<b>1530</b>	80	1.7	6.3		18000	2800	
<b>1350</b>	100	1.3	5.0		18000	2800	

2.14. NRV+NMRV 성능표

2.14. NRV+NMRV Performance

$n_1=1400$

$M_2$ (Nm)	i	$P_1$ (Nm)	$n_2$ (min <sup>-1</sup> )	Type	$Fr_2$ (N)	$Fr_1$ (N)	
<b>73</b>	300	0.08	4.7	<i>NRV030/040</i>	3490	210	81
<b>65</b>	400	0.06	3.5				
<b>61</b>	500	0.04	2.8				
<b>73</b>	600	0.04	2.3				
<b>73</b>	750	0.04	1.9				
<b>73</b>	900	0.03	1.6				
<b>65</b>	1200	0.02	1.2				
<b>73</b>	1500	0.02	0.9				
<b>73</b>	1800	0.02	0.8				
<b>65</b>	2400	0.01	0.58				
<b>65</b>	3200	0.01	0.4				
<b>33</b>	4000	0.01	0.4				
<b>29</b>	5000	0.01	0.28				
<b>145</b>	300	0.15	4.7	<i>NRV030/050</i>	4840	210	81
<b>124</b>	400	0.10	3.5				
<b>120</b>	500	0.09	2.8				
<b>145</b>	600	0.08	2.3				
<b>145</b>	750	0.07	1.9				
<b>145</b>	900	0.06	1.6				
<b>124</b>	1200	0.04	1.2				
<b>145</b>	1500	0.04	0.93				
<b>145</b>	1800	0.04	0.78				
<b>124</b>	2400	0.03	0.6				
<b>120</b>	3000	0.02	0.5				
<b>82</b>	4000	0.02	0.35				
<b>82</b>	4800	0.02	0.29				
<b>230</b>	300	0.24	4.7		<i>NRV030/063</i>	6270	
<b>230</b>	400	0.19	3.5				
<b>216</b>	500	0.15	2.8				
<b>230</b>	600	0.13	2.3				
<b>216</b>	750	0.11	1.9				
<b>198</b>	900	0.09	1.6				
<b>230</b>	1200	0.08	1.2				
<b>216</b>	1500	0.06	0.93				
<b>198</b>	1800	0.05	0.78				
<b>230</b>	2400	0.05	0.58				
<b>216</b>	3000	0.04	0.47				
<b>172</b>	4000	0.03	0.35				
<b>150</b>	5000	0.02	0.28				
<b>390</b>	300	0.36	4.7	<i>NRV040/075</i>		7380	350
<b>360</b>	400	0.27	3.5				
<b>320</b>	500	0.21	2.8				
<b>390</b>	600	0.19	2.3				
<b>390</b>	750	0.16	1.9				
<b>390</b>	900	0.14	1.6				
<b>360</b>	1200	0.11	1.2				
<b>390</b>	1500	0.10	0.93				
<b>390</b>	1800	0.09	0.78				
<b>360</b>	2400	0.07	0.58				
<b>320</b>	3000	0.05	0.47				
<b>250</b>	4000	0.04	0.35				
<b>230</b>	5000	0.03	0.28				
<b>610</b>	300	0.56	4.7		<i>NRV040/090</i>	8180	350
<b>610</b>	400	0.43	3.5				
<b>560</b>	500	0.34	2.8				
<b>610</b>	600	0.30	2.3				
<b>560</b>	750	0.23	1.9				
<b>505</b>	900	0.19	1.6				
<b>610</b>	1200	0.17	1.2				
<b>560</b>	1500	0.14	0.93				

**NMRV**





**n<sub>1</sub>=1400**

<b>M<sub>2</sub></b> (Nm)	<b>i</b>	<b>P<sub>1</sub></b> (Nm)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>Type</b>	<b>Fr<sub>2</sub></b> (N)	<b>Fr<sub>1</sub></b> (N)	<b> ↔ </b>
<b>505</b>	1800	0.11	0.78	<b>NRV040/090</b>	8180	350	81
<b>610</b>	2400	0.11	0.58		8180	350	
<b>560</b>	3000	0.08	0.47		8180	350	
<b>460</b>	4000	0.08	0.35		8180	350	
<b>410</b>	5000	0.06	0.28		8180	350	
<b>1100</b>	300	0.95	4.7	<b>NRV050/105</b>	10320	490	81
<b>1030</b>	400	0.69	3.5		10320	490	
<b>1000</b>	500	0.56	2.8		10320	490	
<b>1030</b>	600	0.48	2.3		10320	490	
<b>1100</b>	750	0.43	1.9		10320	490	
<b>1100</b>	900	0.38	1.6		10320	490	
<b>1030</b>	1200	0.27	1.2		10320	490	
<b>1100</b>	1500	0.26	0.93		10320	490	
<b>1100</b>	1800	0.23	0.78		10320	490	
<b>1030</b>	2400	0.17	0.58		10320	490	
<b>1000</b>	3000	0.14	0.47		10320	490	
<b>780</b>	4000	0.12	0.35		10320	490	
<b>710</b>	5000	0.09	0.28		10320	490	
<b>1265</b>	300	1.1	4.7	<b>NRV050/110</b>	10320	490	81
<b>1185</b>	400	0.79	3.5		10320	490	
<b>1100</b>	500	0.61	2.8		10320	490	
<b>1185</b>	600	0.55	2.3		10320	490	
<b>1265</b>	750	0.49	1.9		10320	490	
<b>1265</b>	900	0.43	1.6		10320	490	
<b>1185</b>	1200	0.31	1.2		10320	490	
<b>1265</b>	1500	0.30	0.93		10320	490	
<b>1265</b>	1800	0.26	0.78		10320	490	
<b>1185</b>	2400	0.19	0.58		10320	490	
<b>1100</b>	3000	0.15	0.47		10320	490	
<b>819</b>	4000	0.13	0.35		10320	490	
<b>746</b>	5000	0.10	0.28		10320	490	
<b>1760</b>	300	1.5	4.7	<b>NRV063/130</b>	13500	700	81
<b>1650</b>	400	1.1	3.5		13500	700	
<b>1550</b>	500	0.86	2.8		13500	700	
<b>1650</b>	600	0.76	2.3		13500	700	
<b>1760</b>	750	0.66	1.9		13500	700	
<b>1760</b>	900	0.58	1.6		13500	700	
<b>1650</b>	1200	0.43	1.2		13500	700	
<b>1760</b>	1500	0.39	0.93		13500	700	
<b>1760</b>	1800	0.35	0.78		13500	700	
<b>1650</b>	2400	0.25	0.58		13500	700	
<b>1550</b>	3000	0.20	0.47		13500	700	
<b>1220</b>	4000	0.15	0.35		13500	700	
<b>1100</b>	5000	0.11	0.28		13500	700	
<b>2340</b>	150	3.4	9.3	<b>NRV063/150</b>	18000	700	81
<b>2340</b>	200	2.7	7.0		18000	700	
<b>2050</b>	250	1.9	5.6		18000	700	
<b>2340</b>	300	1.9	4.7		18000	700	
<b>2670</b>	400	1.8	3.5		18000	700	
<b>2330</b>	500	1.4	2.8		18000	700	
<b>2670</b>	600	1.3	2.3		18000	700	
<b>2330</b>	750	0.98	1.9		18000	700	
<b>2100</b>	900	0.71	1.6		18000	700	
<b>2670</b>	1200	0.75	1.2		18000	700	
<b>2100</b>	1800	0.44	0.8		18000	700	
<b>2670</b>	2400	0.46	0.6		18000	700	
<b>2330</b>	3000	0.34	0.5		18000	700	
<b>1880</b>	4000	0.23	0.4		18000	700	
<b>1650</b>	5000	0.18	0.3		18000	700	



2.15. UDL+NMRV 성능표

2.15. UDL+NMRV Performance



$P_1$ (kW)	$n_2$ (min <sup>-1</sup> )	$M_2$ (Nm)	$i$	Type						
<b>0.18</b>	117 22.5	9 18	12 61.5	<b>UDL002-NMRV040</b>	632-4	80				
	88 17	12 23	16 82							
	58.7 11.3	17 32	24 123							
	44 8.5	22 40	32 164							
	35.2 6.8	27 47	40 205							
	29.3 5.7	30 51	48 246							
	22 4.3	37 62	64 328							
	17.6 3.4	43 60	80 410	<b>UDL002-NMRV050</b>	632-4	80				
	22 4.3	38 63	64 328							
	17.6 3.4	44 73	80 410							
	14.7 2.8	50 80	96 492							
	11 2.1	59 82	128 656							
	8.8 1.7	66 79	160 820							
	<b>0.25</b>	133 26.7	13 30				10.5 52.5	<b>UDL005-NMRV040</b>	711-4	80
100 20		16 38	14 70							
66.7 13.3		24 53	21 105							
50 10		32 68	28 140							
40 8		38 80	35 175							
33.3 6.7		43 89	42 210							
25 5		48 96	56 280							
25 5		54 112	56 280	<b>UDL005-NMRV050</b>	711-4	80				
20 4		59 122	70 350							
16.7 3.3		66 135	84 420							
12.5 2.5		72 120	112 560							
<b>0.37</b>		133 26.7	19 36				10.5 52.5	<b>UDL005-NMRV050</b>	712-4	80
		100 20	25 47				14 70			
		66.7 13.3	36 65				21 105			
	50 10	46 82	28 140							
	40 8	55 97	35 175							
	33.3 6.7	61 107	42 210							
	25 5	76 124	56 280							
	20 4	89 120	70 350							
	25 5	79 134	56 280	<b>UDL005-NMRV063</b>	712-4	80				
	20 4	92 155	70 350							
	16.7 3.3	104 173	84 420							
	12.5 2.5	125 173	112 560							
	10 2	139 150	140 700							
	<b>0.55</b>	133 26.7	26 49				10.5 52.5	<b>UDL010-NMRV063</b>	801-4	80
100 20		34 63	14 70							
66.7 13.3		48 88	21 105							
50 10		62 112	28 140							
40 8		75 133	35 175							
33.3 6.7		81 146	42 210							
25 5		105 179	56 280							
20 4		123 207	70 350							
20 4		129 216	70 350	<b>UDL010-JMRV075</b>	801-4	80				
16.7 3.3		146 242	84 420							
12.5 2.5		176 250	112 560							
12.5 2.5		189 309	112 560				<b>UDL010-JMRV090</b>	801-4	80	
10 2		218 350	140 700							

**NMRV**





<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>i</b>	<b>Type</b>		
<b>0.75</b>	133 26.7	39 73	10.5 52.5	<b>UDL010-NMRV063</b>	802-4	80
	100 20	51 94	14 70			
	66.7 13.3	72 132	21 105			
	50 10	92 168	28 140			
	40 8	112 199	35 175			
	33.3 6.7	126 219	42 210			
	25 5	156 232	56 280			
	20 4	185 310	70 350			
	20 4	192 320	70 350	<b>UDL010-NMRV075</b>	802-4	80
	16.7 3.3	219 300	84 420			
	16.7 3.3	230 389	84 420	<b>UDL010-NMRV090</b>	802-4	80
	12.5 2.5	265 428	112 560			
	10 2	303 410	140 700			
	12.5 2.5	302 503	112 560	<b>UDL010-NMRV105</b>	802-4	80
10 2	348 575	140 700				
12.5 2.5	302 503	112 560	<b>UDL010-NMRV110</b>	802-4	80	
10 2	348 575	140 700				
<b>1.1</b>	133 26.7	59 111	10.5 52.5	<b>UD020-NMRV075</b>	90s-4	80
	100 20	77 144	14 70			
	66.7 13.3	110 203	21 105			
	50 10	142 258	28 140			
	40 8	172 308	35 175			
	33.3 6.7	195 340	42 210			
	25 5	245 360	56 280			
	100 20	78 146	14 70	<b>UD020-NMRV090</b>	90s-4	80
	66.7 13.3	113 208	21 105			
	50 10	146 266	28 140			
	40 8	177 320	35 175			
	33.3 6.7	202 356	42 210			
	25 5	256 442	56 280			
	20 4	304 517	70 350			
	20 4	320 550	70 350	<b>UD020-NMRV105</b>	90s-4	80
	16.7 3.3	368 625	84 420			
	12.5 2.5	455 754	112 560			
	10 2	522 710	140 700			
	20 4	320 550	70 350	<b>UD020-NMRV110</b>	90s-4	80
	16.7 3.3	368 625	84 420			
	12.5 2.5	455 754	112 560			
10 2	522 710	140 700				
16.7 3.3	373 623	84 420	<b>UD020-NMRV130</b>	90s-4	80	
12.5 2.5	460 749	112 560				
10 2	531 868	140 700				



<b>P<sub>1</sub></b> (kW)	<b>n<sub>2</sub></b> (min <sup>-1</sup> )	<b>M<sub>2</sub></b> (Nm)	<b>i</b>	<b>Type</b>					
<b>1.5</b>	133 26.7	78 148	10.5 52.5	<b>UD020-NMRV075</b>	90L-4	80			
	100 20	102 192	14 70						
	66.7 13.3	147 270	21 105						
	50 10	190 344	28 140						
	40 8	229 330	35 175						
	33.3 6.7	260 390	42 210						
	25 5	327 360	56 280						
	133 26.7	77 150	10.5 52.5				<b>UD020-NMRV090</b>	90L-4	80
	100 20	104 195	14 70						
	66.7 13.3	150 277	21 105						
50 10	194 355	28 140							
40 8	236 427	35 175							
33.3 6.7	270 474	42 210							
25 5	341 589	56 280							
20 4	406 560	70 350							
20 4	426 733	70 350	<b>UD020-NMRV105</b>	90L-4	80				
16.7 3.3	490 833	84 420							
20 4	426 733	70 350	<b>UD020-NMRV110</b>	90L-4	80				
16.7 3.3	490 833	84 420							
16.7 3.3	498 831	84 420	<b>UD020-NMRV130</b>	90L-4	80				
12.5 2.5	614 999	112 560							
10 2	696 1100	140 700							
<b>2.2</b>	133 26.7	120 226	10.5 52.5	<b>UD030-NMRV105</b>	100L1-4	80			
	100 20	157 294	14 70						
	66.7 13.3	228 418	21 105						
	50 10	298 549	28 140						
	40 8	364 664	35 175						
	33.3 6.7	413 717	42 210						
	25 5	533 931	56 280						
	133 26.7	120 226	10.5 52.5				<b>UD030-NMRV110</b>	100L1-4	80
	100 20	157 294	14 70						
	66.7 13.3	228 418	21 105						
50 10	298 549	28 140							
40 8	364 664	35 175							
33.3 6.7	413 717	42 210							
25 5	533 931	56 280							
25 5	542 932	56 280	<b>UD030-NMRV130</b>	100L1-4	80				
20 4	648 1097	70 350							
16.7 3.3	746 1246	84 420							
12.5 2.5	921 1499	112 560							
10 2	1040 1690	140 700							

**NMRV**

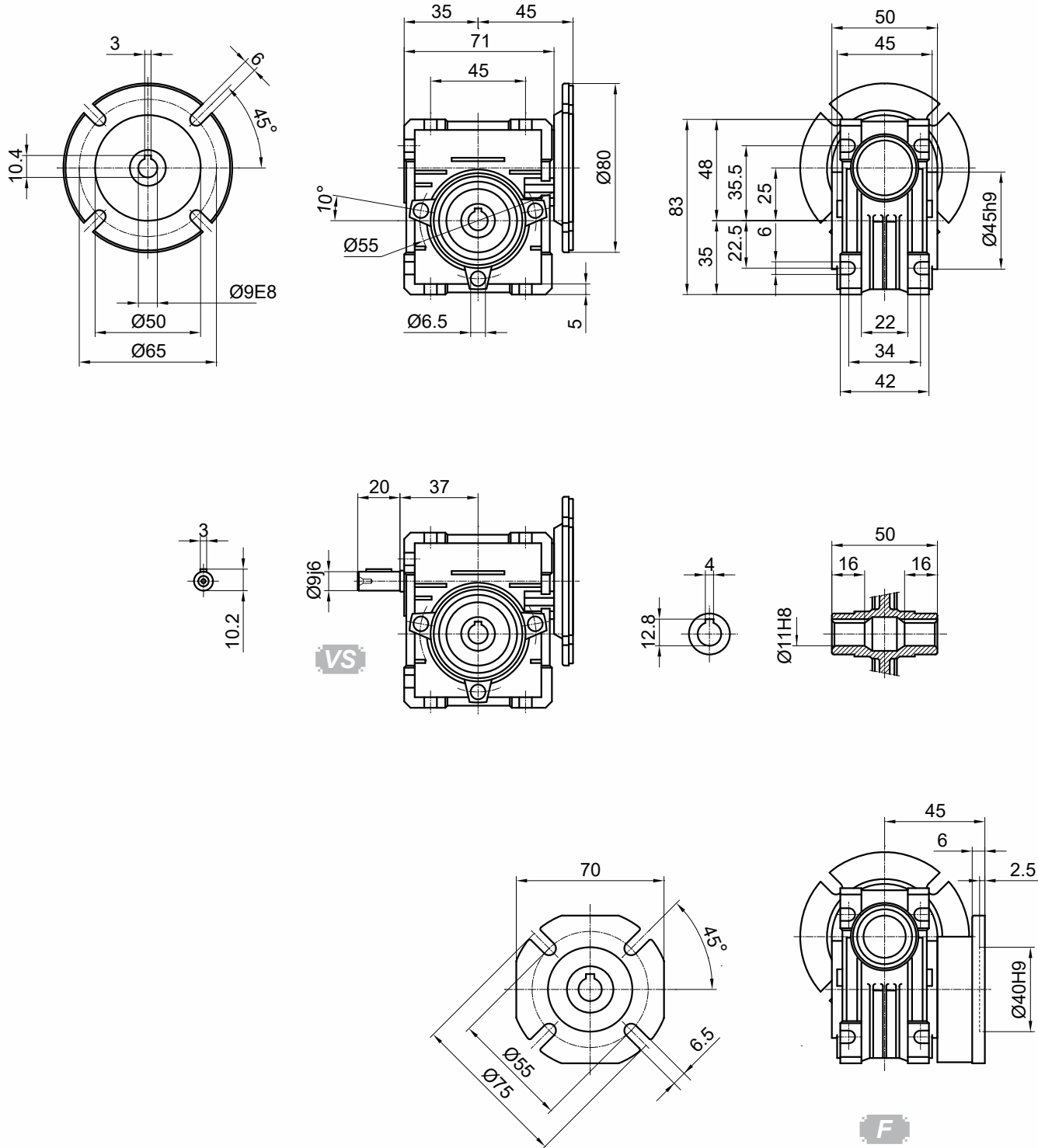


$P_1$ (kW)	$n_2$ (min <sup>-1</sup> )	$M_2$ (Nm)	$i$	Type		
<b>3.0</b>	133 26.7	160 302	10.5 52.5	<b>UD030-NMRV105</b>	100L2-4	80
	100 20	210 392	14 70			
	66.7 13.3	304 558	21 105			
	50 10	398 732	28 140			
	40 8	485 885	35 175			
	33.3 6.7	547 956	42 210			
	25 5	711 1030	56 280			
	133 26.7	160 302	10.5 52.5	<b>UD030-NMRV110</b>	100L2-4	80
	100 20	210 392	14 70			
	66.7 13.3	304 558	21 105			
	50 10	398 732	28 140			
	40 8	485 885	35 175			
	33.3 6.7	547 956	42 210			
	25 5	711 1030	56 280			
	133 26.7	160 301	10.5 52.5	<b>UD030-NMRV130</b>	100L2-4	80
	100 20	211 395	14 70			
	66.7 13.3	307 563	21 105			
	50 10	402 733	28 140			
	40 8	490 885	35 175			
	33.3 6.7	562 973	42 210			
	25 5	720 1242	56 280			
20 4	864 1463	70 350				
<b>4.0</b>	133 26.7	213 402	10.5 52.5	<b>UD050-NMRV105</b>	112M4	80
	100 20	279 523	14 70			
	66.7 13.3	405 744	21 105			
	50 10	530 975	28 140			
	40 8	647 1020	35 175			
	133 26.7	213 402	10.5 52.5	<b>UD050-NMRV110</b>	112M4	80
	100 20	279 523	14 70			
	66.7 13.3	405 744	21 105			
	50 10	530 975	28 140			
	40 8	647 1020	35 175			
	133 26.7	214 401	10.5 52.5	<b>UD050-NMRV130</b>	112M4	80
	100 20	281 527	14 70			
	66.7 13.3	410 751	21 105			
	50 10	536 978	28 140			
	40 8	653 1180	35 175			
	33.3 6.7	749 1298	42 210			
	25 5	960 1650	56 280			

2.16. NMRV 도면

2.16. NMRV Dimensions charts

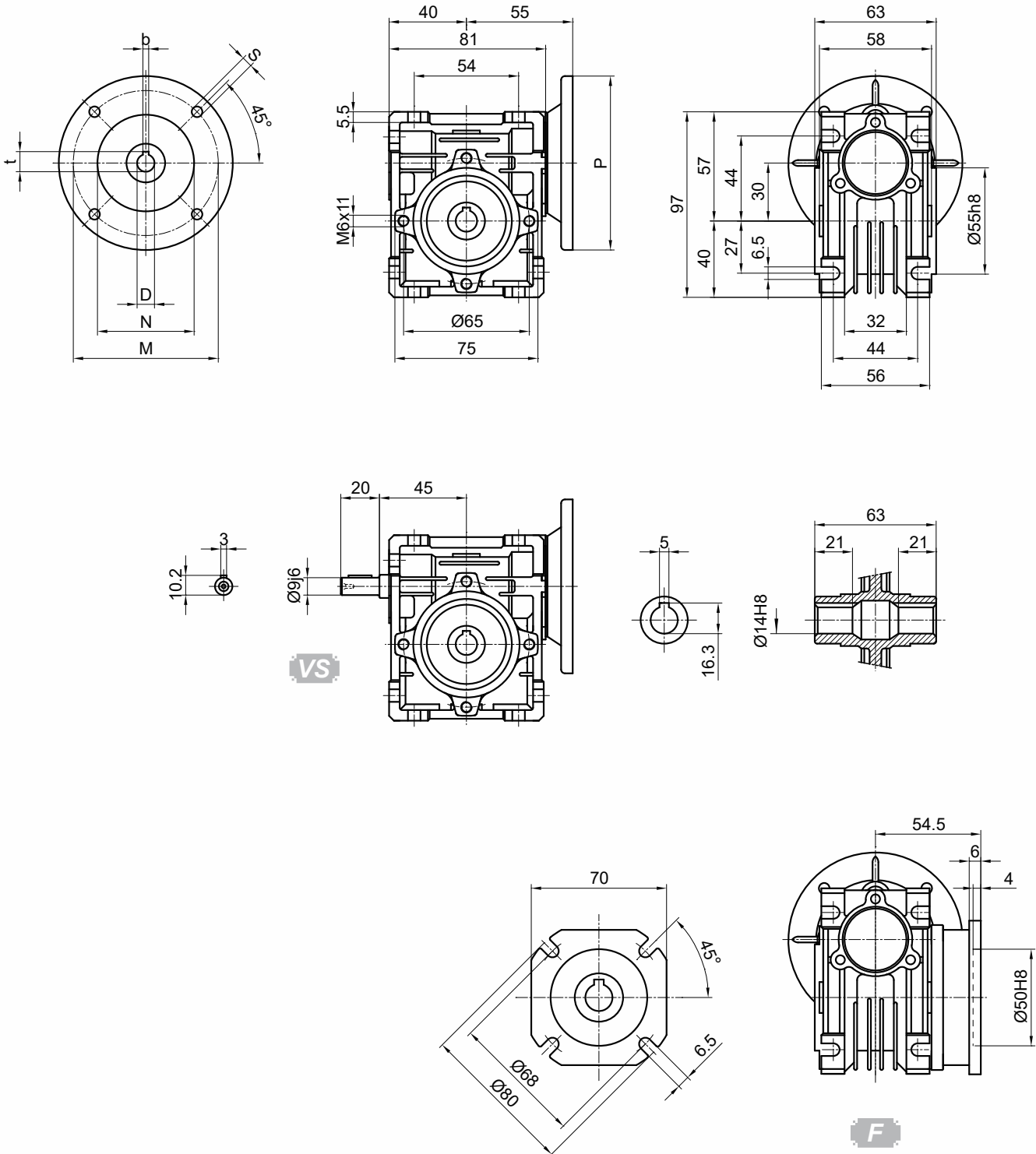
NMRV025



NMRV

\*모터 제외 무게 0.7kg  
Weight without motor 0.7kg

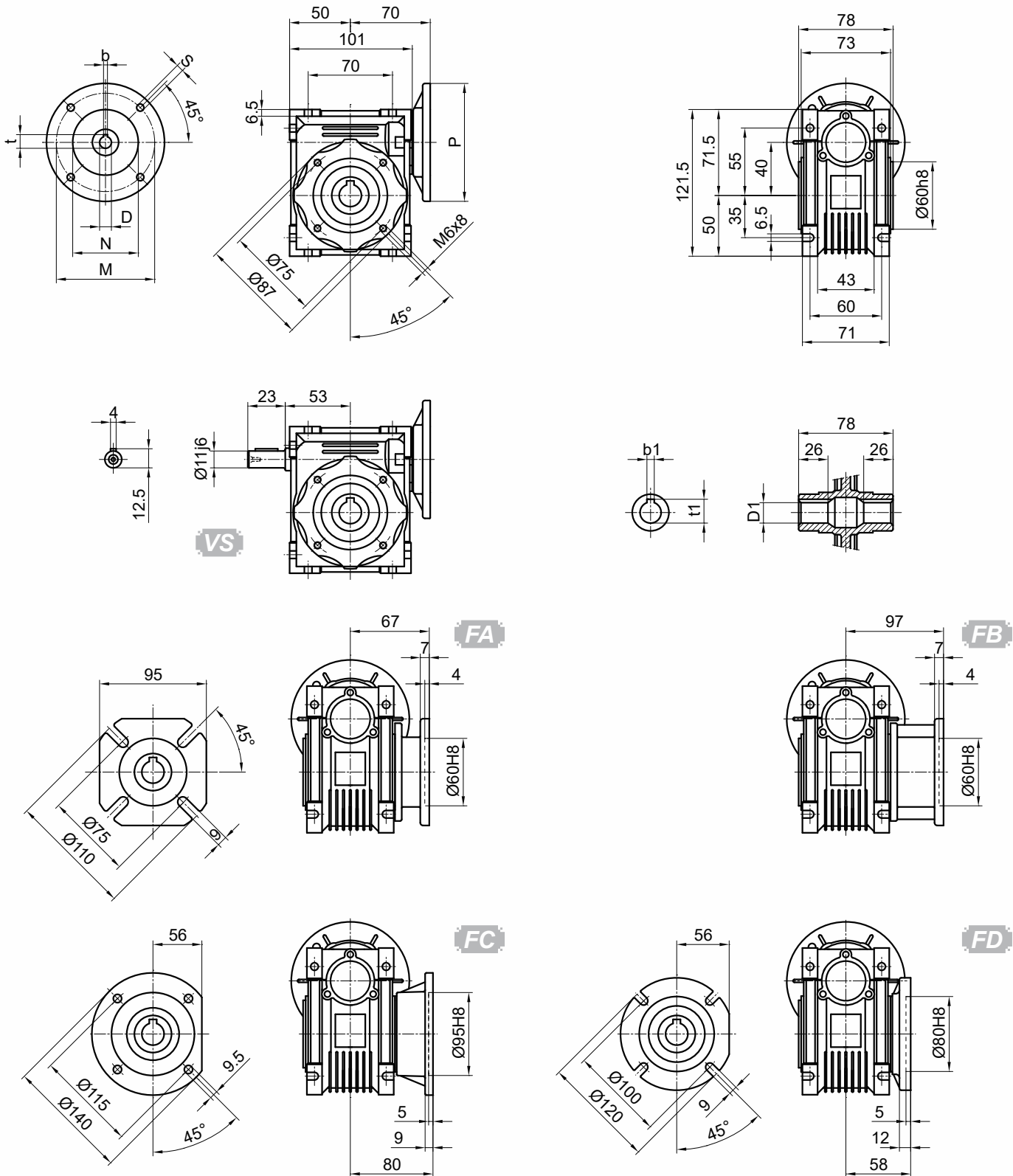
# NMRV030



PAM IEC	$D_{E8}$	$b$	$t$	$P$	$M$	$N$	$S$
63B5	11	4	12.8	140	115	95	9
63B14	11	4	12.8	90	75	60	5.5
56B5	9	3	10.4	120	100	80	6.5
56B14	9	3	10.4	80	65	50	5.5

\*모터 제외 무게 1.2kg  
Weight without motor 1.2kg

# NMRV040



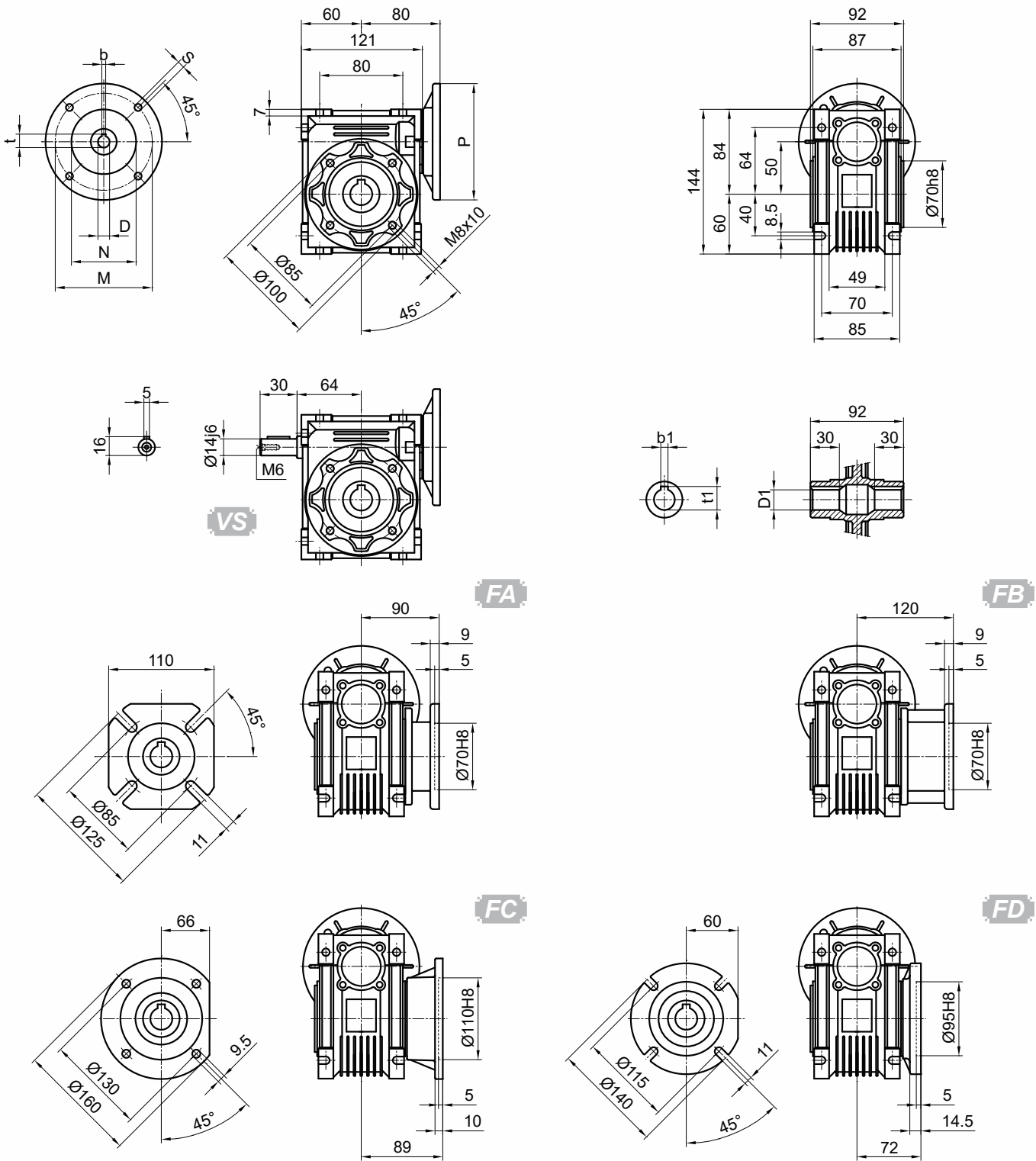
**NMRV**

PAM IEC	$D_{E8}$	$b$	$t$	$P$	$M$	$N$	$S$	출력 Output	$D_{1H8}$	$b_1$	$t_1$
71B5	14	5	16.3	160	130	110	8.5		18	6	20.8
71B14	14	5	16.3	105	85	70	6.5	(19)	(6)	(21.8)	
63B5	11	4	12.8	140	115	95	9	(..) 요청 시 (..) only on request			
63B14	11	4	12.8	90	75	60	6				
56B5	9	3	10.4	120	100	80	6.5				

\*모터 제외 무게 2.3kg  
Weight without motor 2.3kg



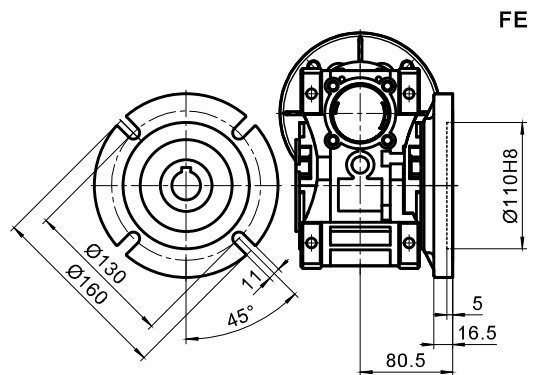
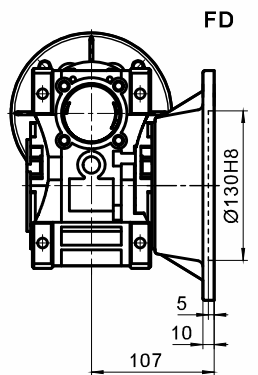
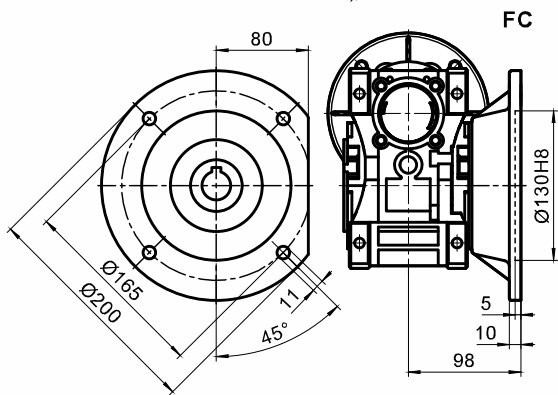
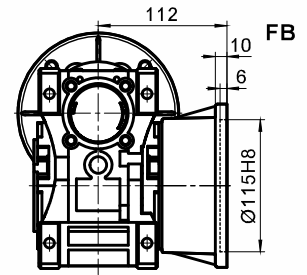
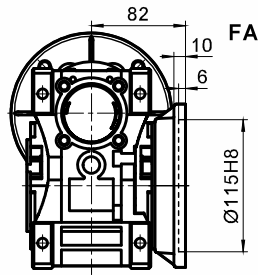
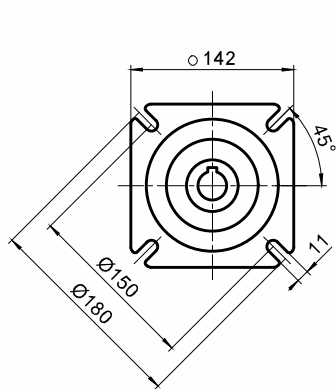
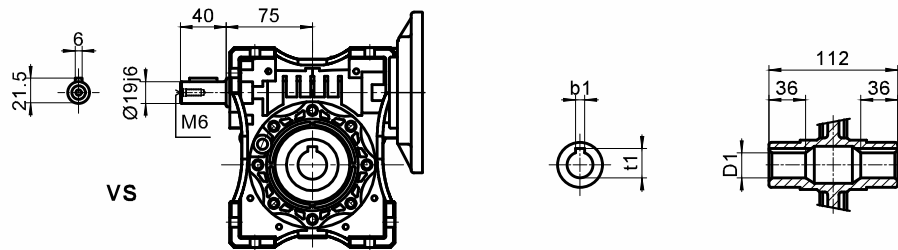
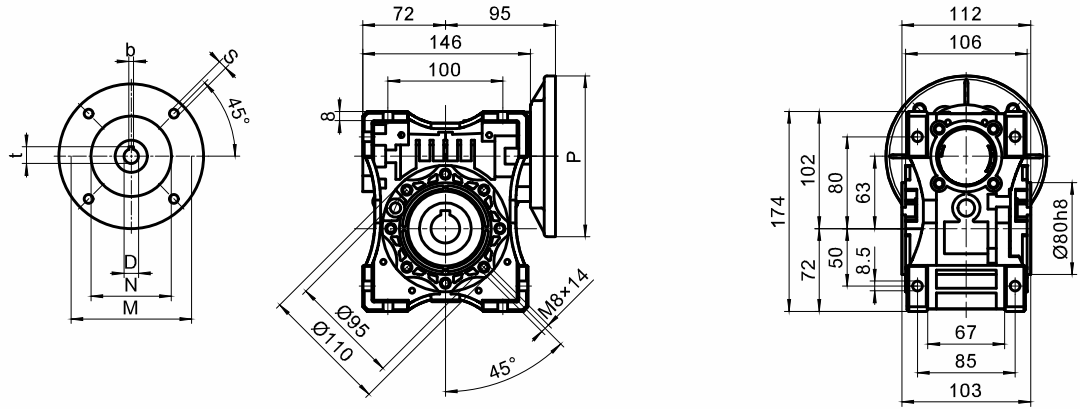
# NMRV050



PAM IEC	$D_{E8}$	$b$	$t$	$P$	$M$	$N$	$S$	출력 Output	$D1_{h8}$	$b1$	$t1$
80B5	19	6	21.8	200	165	130	11		25	8	28.3
80B14	19	6	21.8	120	100	80	6.5	(24)	(8)	(27.3)	
71B5	14	5	16.3	160	130	110	8.5	(..) 요청 시 (..) only on request			
71B14	14	5	16.3	105	85	70	7				
63B5	11	4	12.8	140	115	95	8.5				

\*모터 제외 무게 3.5kg  
Weight without motor 3.5kg

# TMRV063



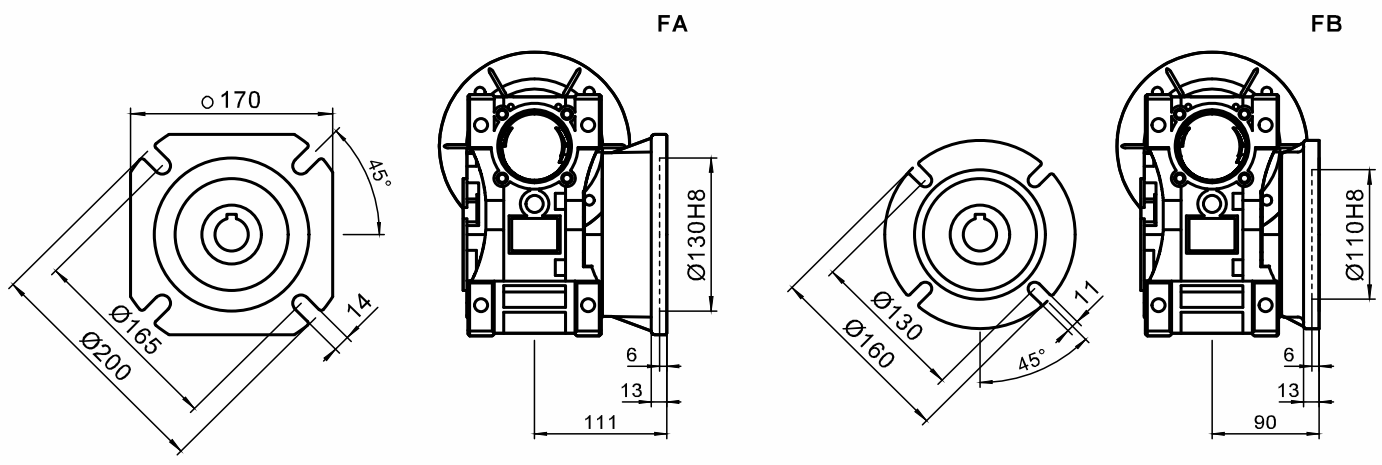
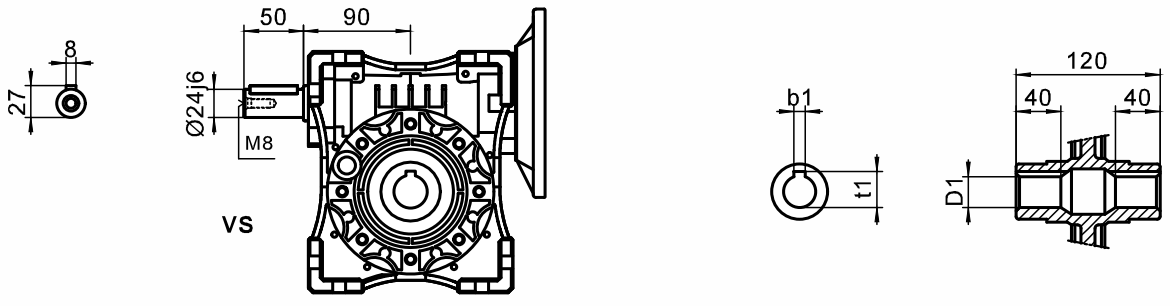
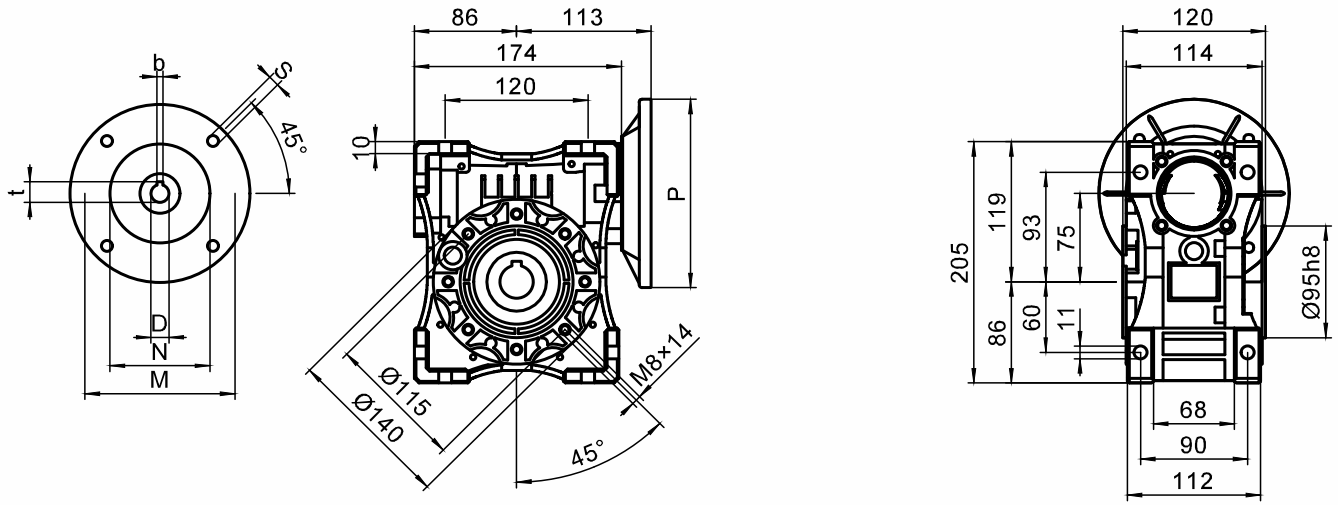
PAM IEC	D <sub>Es</sub>	b	t	P	M	N	S	출력 Output	D <sub>1h8</sub>	b <sub>1</sub>	t <sub>1</sub>
90B5	24	8	27.3	200	165	130	11		25	8	28.3
90B14	24	8	27.3	140	115	95	9	(28)	(8)	(31.3)	
80B5	19	6	21.8	200	165	130	11				
80B14	19	6	21.8	120	100	80	7				
71B5	14	5	16.3	160	130	110	8.5				
71B14	14	5	16.3	105	85	70	7				

(..) 요청 시  
(..) only on request

\*모터 제외 무게 6.2kg  
Weight without motor 6.2kg



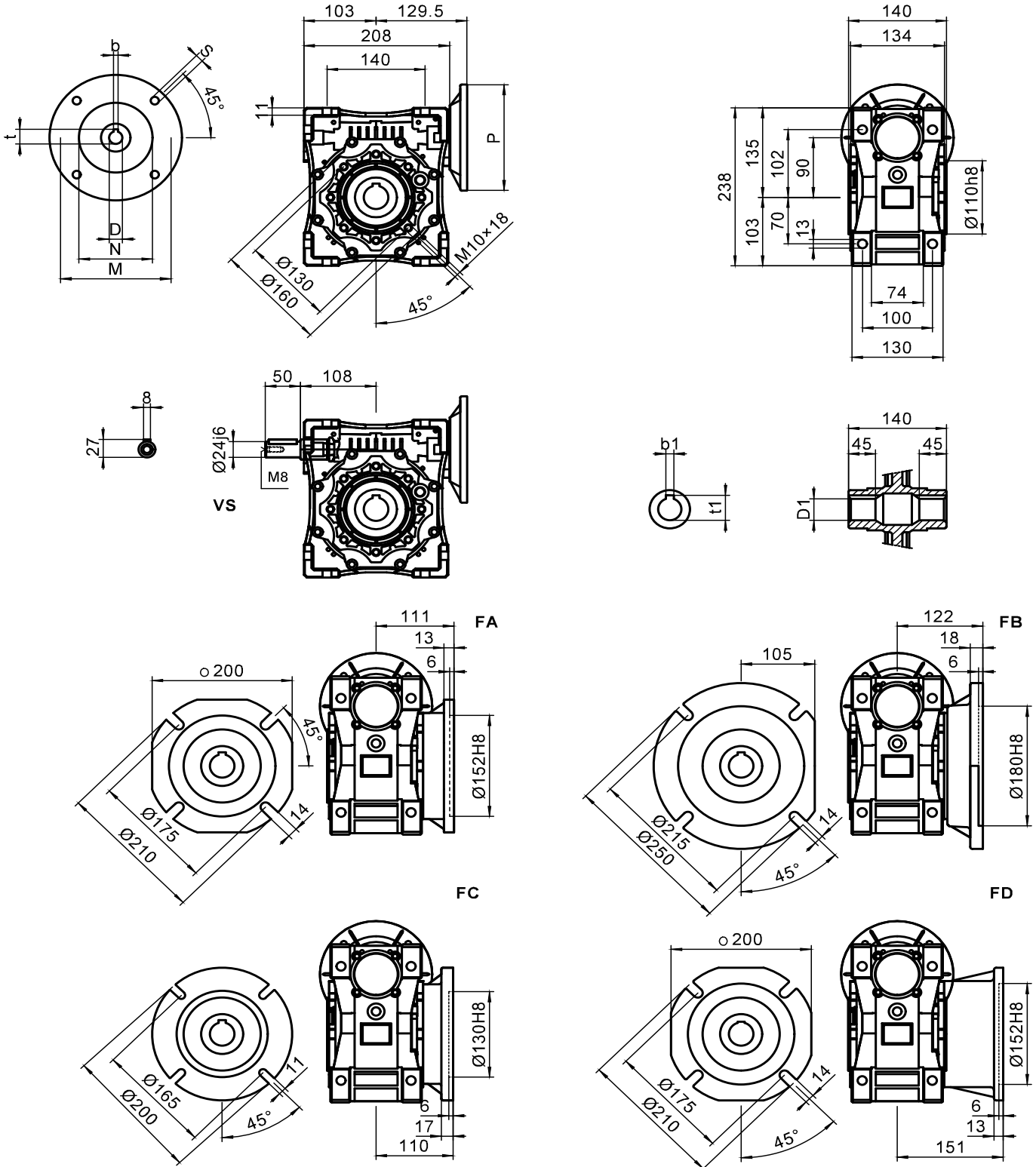
# TMRV075



PAM IEC	D <sub>E8</sub>	b	t	P	M	N	S	출력 Output	D <sub>1h8</sub>	b <sub>1</sub>	t <sub>1</sub>
100/112B5	28	8	31.3	250	215	180	13			28	8
100/112B14	28	8	31.3	160	130	110	9	(35)		(10)	(38.3)
90B5	24	8	27.3	200	165	130	11		(..) 요청 시 (..) only on request		
90B14	24	8	27.3	140	115	95	9				
80B5	19	6	21.8	200	165	130	11				
80B14	19	6	21.8	120	100	80	6.5				
71B5	14	5	16.3	160	130	110	9				

\* 모터 제외 무게 9.0kg  
Weight without motor 9.0kg

# TMRV090

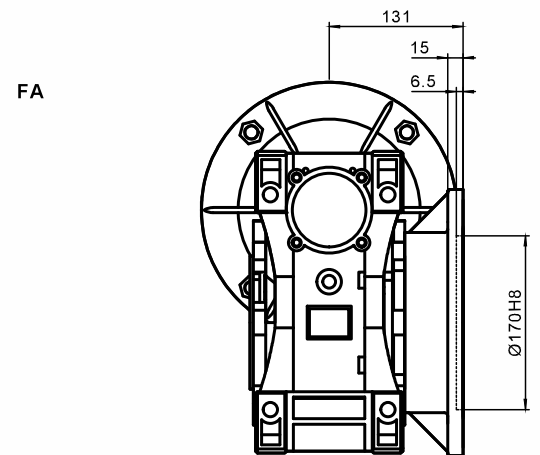
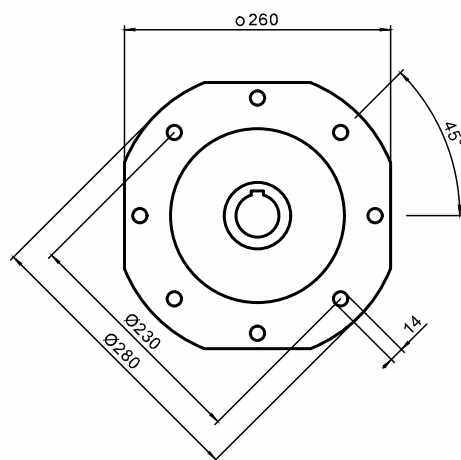
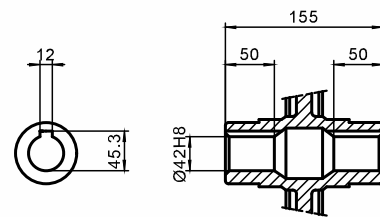
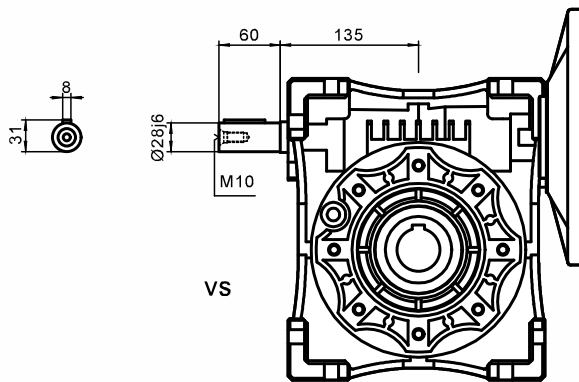
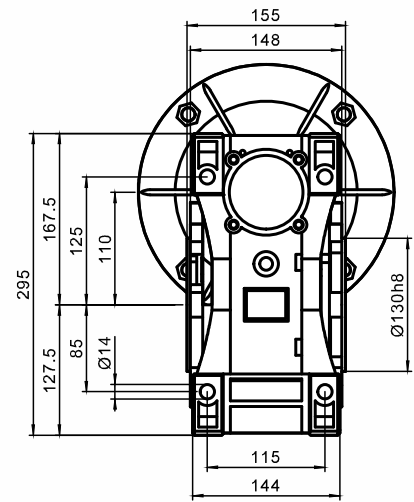
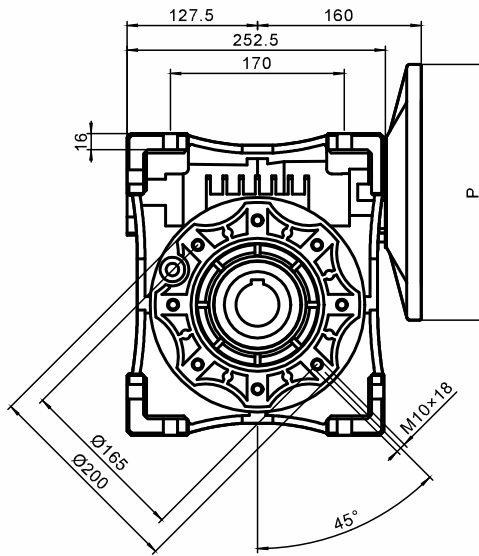
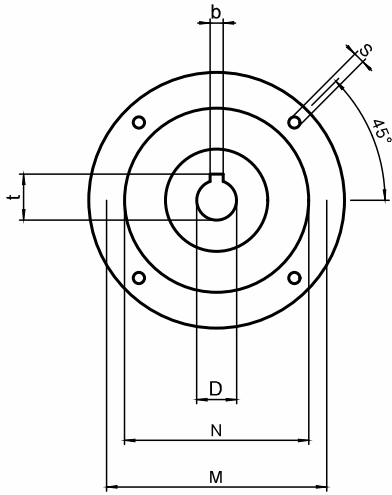


**TMRV**

PAM IEC	D <sub>E8</sub>	b	t	P	M	N	S	출력 Output	D <sub>1h8</sub>	b <sub>1</sub>	t <sub>1</sub>
									100/112B5	28	8
100/112B14	28	8	31.3	160	130	110	9	(38)	(10)	(41.3)	
90B5	24	8	27.3	200	165	130	11	(..) 요청 시 (..) only on request			
90B14	24	8	27.3	140	115	95	9				
80B5	19	6	21.8	200	165	130	11				
80B14	19	6	21.8	120	100	80	6.5				

\* 모터 제외 무게 13kg  
Weight without motor 13kg

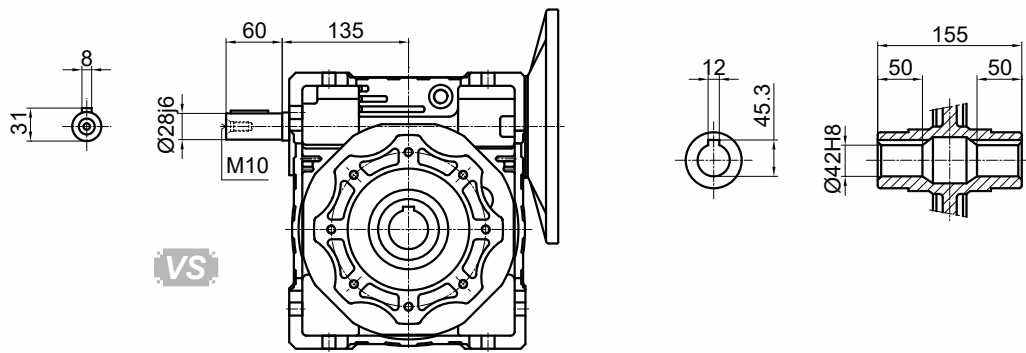
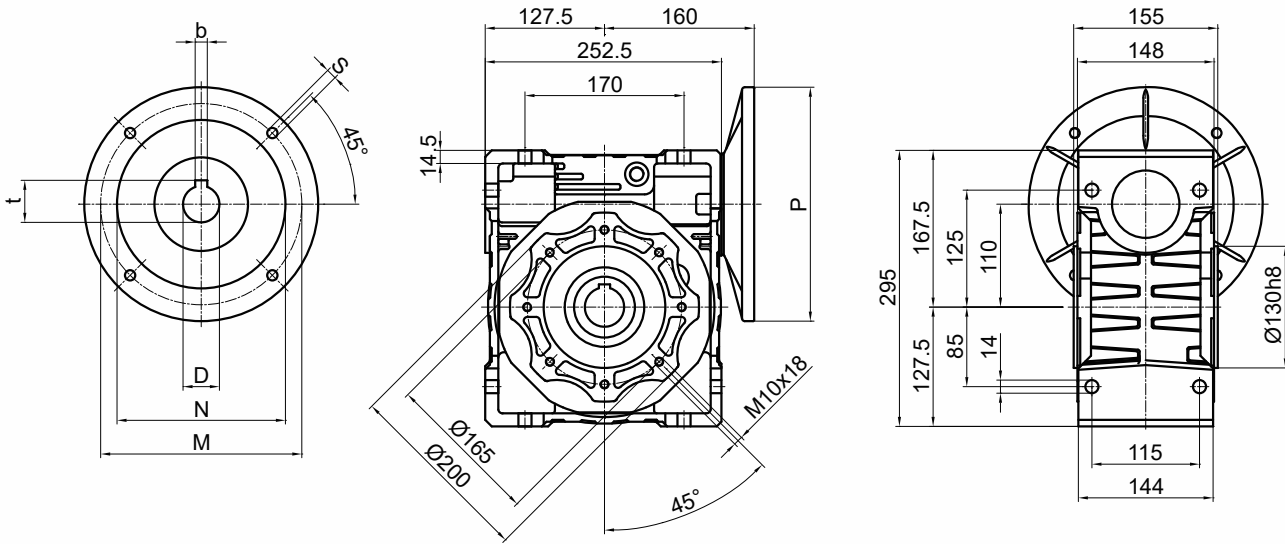
# TMRV110 -Alu



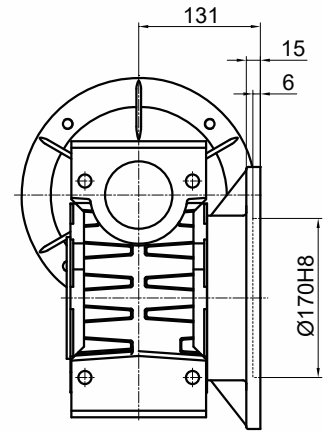
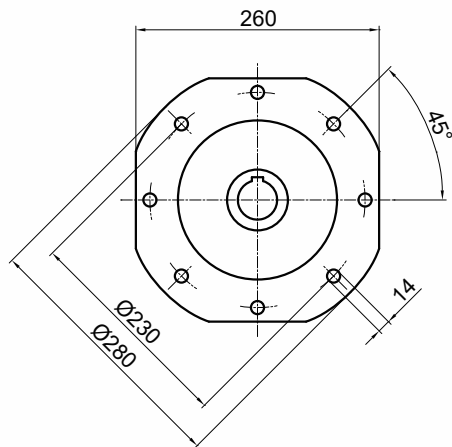
PAM IEC	D <sub>E8</sub>	b	t	P	M	N	S
132B5	38	10	41.3	300	265	230	M12
100/112B5	28	8	31.3	250	215	180	13
90B5	24	8	27.3	200	165	130	11
80B5	19	6	21.8	200	165	130	11

\* 모터 제외 무게 21kg  
Weight without motor 21kg

# NMRV110-Cast Iron



VS



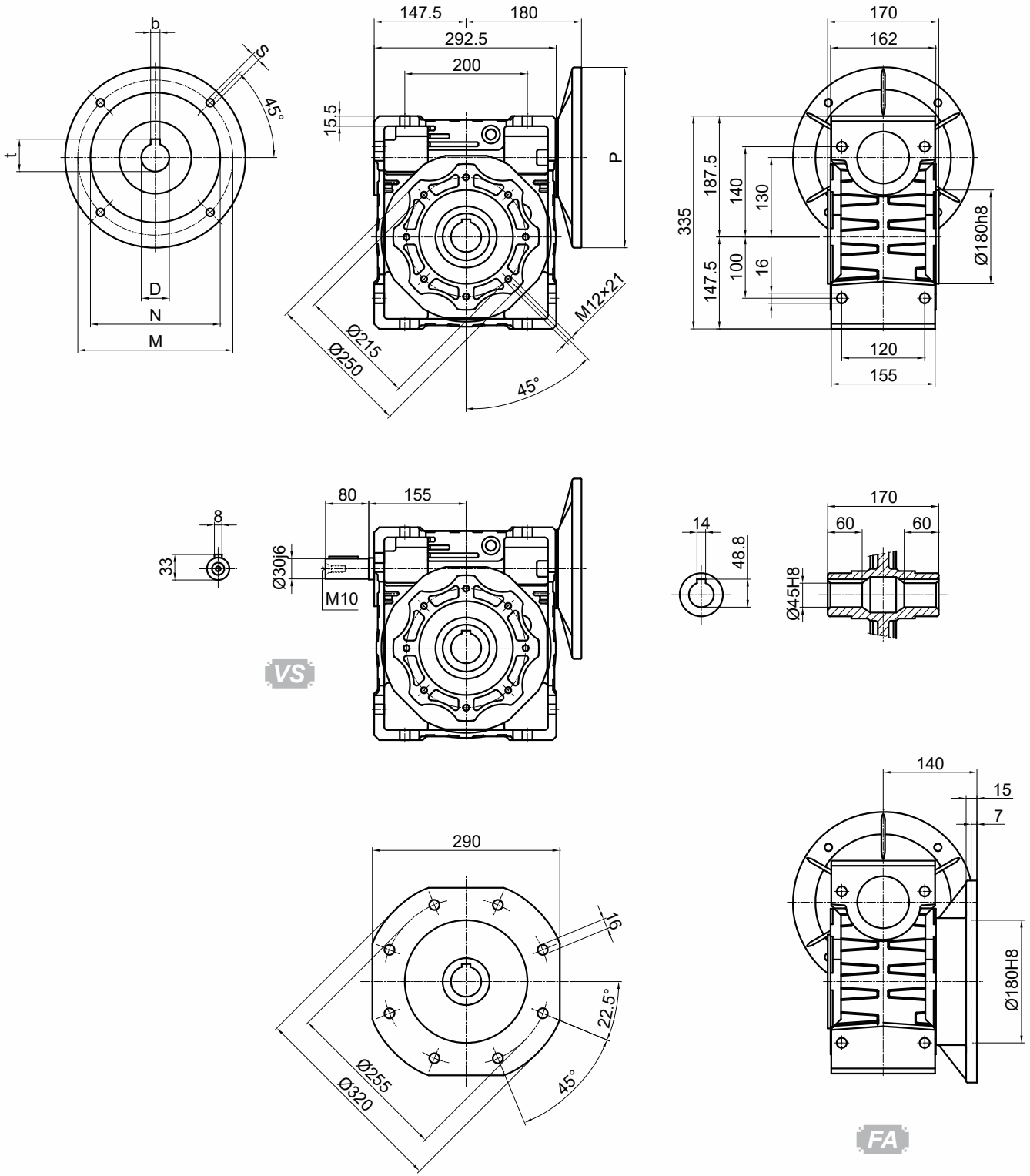
FA

PAM IEC	D <sub>E8</sub>	b	t	P	M	N	S
132B5	38	10	41.3	300	265	230	M12
100/112B5	28	8	31.3	250	215	180	13
90B5	24	8	27.3	200	165	130	11
80B5	19	6	21.8	200	165	130	11

\* 모터 제외 무게 35kg  
Weight without motor 35kg



# NMRV130



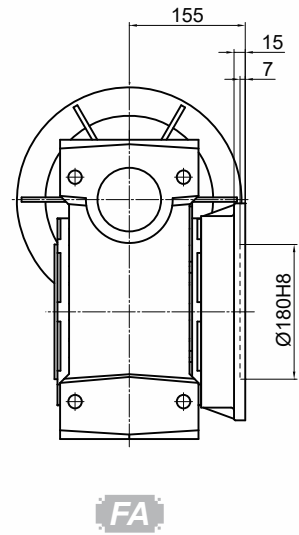
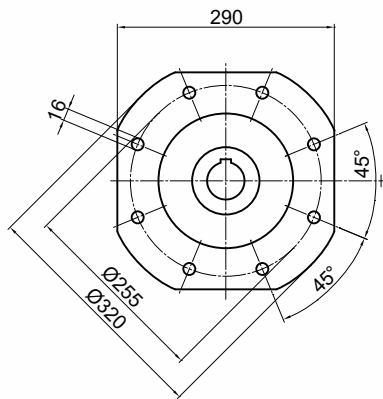
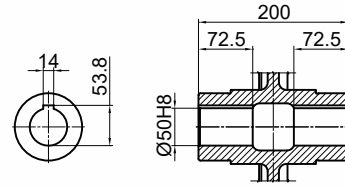
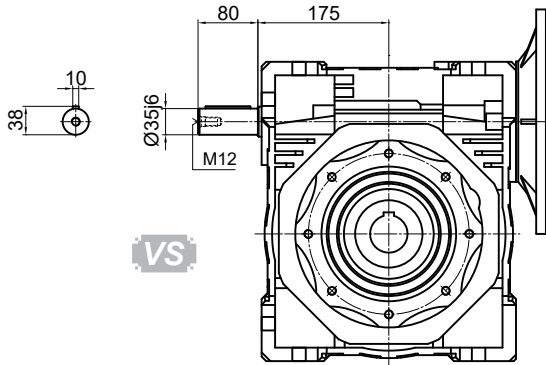
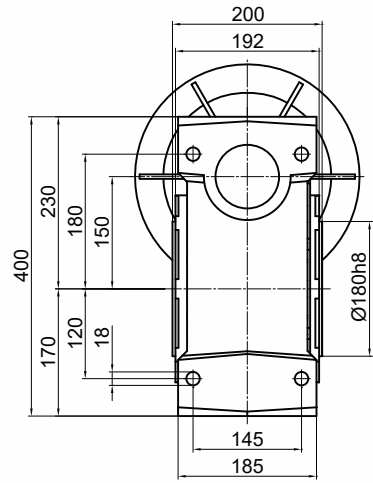
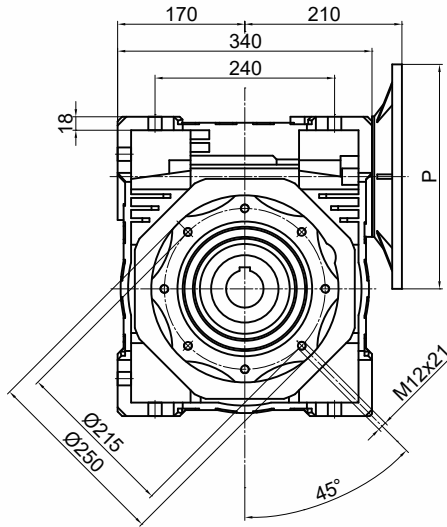
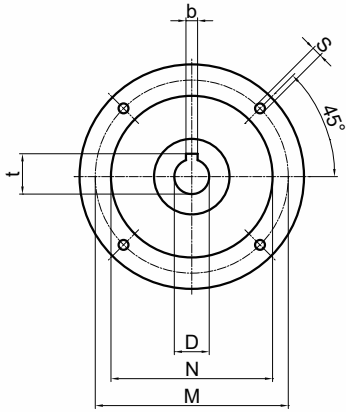
VS

FA

PAM IEC	$D_{E8}$	$b$	$t$	$P$	$M$	$N$	$S$
132B5	38	10	41.3	300	265	230	M12
100/112B5	28	8	31.3	250	215	180	13
90B5	24	8	27.3	200	165	130	11

\*모터 제외 무게 48kg  
Weight without motor 48kg

# NMRV150



PAM IEC	D <sub>E8</sub>	b	t	P	M	N	S
160B5	42	12	45.3	350	300	250	19
132B5	38	10	41.3	300	265	230	M12
100/112B5	28	8	31.3	250	215	180	M12

\*모터 제외 무게 84kg  
Weight without motor 84kg

NMRV