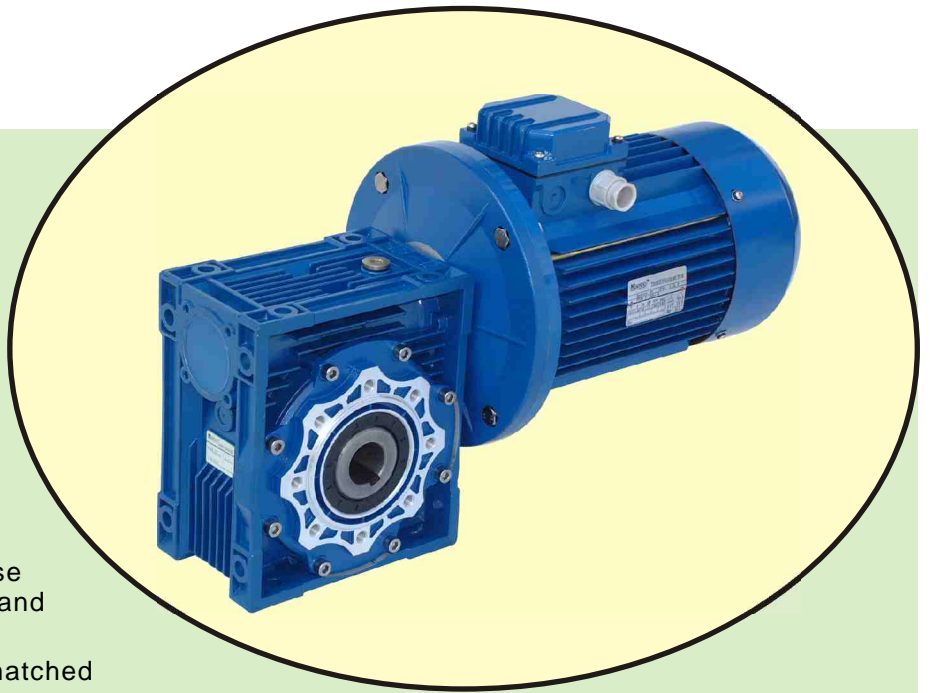


NMRV SERIES SPEED REDUCER

STRUCTURE FEATURES

- * High quality die casting aluminium alloy and cast iron housing suitable for universal mounting.
- * Fully cooling reducer body provides better cooling effect.
- * 8 frame sizes: from 030 to 130.
- * Power range: from 0.06kw to 7.5kw.
- * 12 Speed ratios: from 5:1 to 100:1.
- * Hardened worm shaft with precise grinding ensures higher efficiency and larger output torque.
- * The input flange of reducer can be matched with motor flange.
- * An output flange can be installed for the fixed connection of reducer.
- * Low noise and stable running, suitable for long term continuous operating in wicked conditions.
- * Light weight and high mechanical intensity.



MAIN MATERIALS

- * Housing : die-cast aluminium alloy (frame size : 030 up to 090);
cast iron (frame size : 110 up to 130).
- * Worm shaft: 20cr steel, carbonitriding processing (the hardness of gear surface is HRC60 and the thickness of hard layer is over 0.5mm after precise grinding).
- * Worm gear: special wearable nickel bronze alloy.

PAINT

- * Aluminium alloy housing and cast iron housing: Electro-painting process.

ISO9001



THONG FATT JAYA MACHINERY HARDWARE SDN. BHD.

同發機械五金有限公司 (176024-V)

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Website: <http://www.thongfattjaya.com.my>

SPECIFICATION DATA 1

KW	NMRV	i	n ₂ (r/min)	M ₂ (N.M)
0.06	030	5	280	1.8
	030	7.5	186	2.6
	030	10	140	3.4
	030	15	94	4.8
	030	20	70	5.5
	030	25	56	7.2
	030	30	47	8.2
	030	40	35	8.5
	030	50	28	11.6
	040	50	28	12.4
	030	60	24	12.8
	040	60	24	12.6
	030	80	18	13.8
	040	80	18	16.8
040	100	14	19.5	
0.09	030	5	280	2.7
	030	7.5	186	4.0
	030	10	140	5.1
	030	15	94	7.2
	030	20	70	8.3
	030	25	56	10.7
	030	30	47	12.3
	030	40	35	12.8
	030	50	28	17.4
	040	50	28	18.6
	030	60	24	19.2
	040	60	24	19.0
	040	80	18	25.2
	040	100	14	29.3
0.12	030	5	280	3.6
	040	5	280	3.5
	030	7.5	186	5.3
	040	7.5	186	5.3
	030	10	140	6.8
	040	10	140	8.9
	030	15	94	9.6
	040	15	94	9.9
	030	20	70	11.0
	040	20	70	13.0
	030	25	56	14.3
	040	25	56	15.1
	030	30	47	16.4
	040	30	47	16.6
	030	40	35	17.0
	040	40	35	21.9
	050	40	35	22.7
	030	50	28	23.2
	040	50	28	24.7
	050	50	28	26.0
040	60	24	25.3	
050	60	24	26.2	

KW	NMRV	i	n ₂ (r/min)	M ₂ (N.M)
0.12	040	80	18	33.6
	050	80	18	34.7
	040	100	14	39.0
	050	100	14	39.6
0.18	030	5	280	5.4
	040	5	280	5.4
	030	7.5	186	7.9
	040	7.5	186	7.9
	030	10	140	10.2
	040	10	140	10.3
	030	15	94	14.4
	040	15	94	14.8
	030	20	70	16.5
	040	20	70	19.5
	030	25	56	21.5
	040	25	56	22.7
	030	30	47	24.6
	040	30	47	24.9
	040	40	35	32.8
	050	40	35	34.0
0.25	040	50	28	37.1
	050	50	28	39.0
	040	60	24	37.9
	050	60	24	39.2
	050	80	18	52.1
	050	100	14	59.3
	040	5	280	7.6
	050	5	280	7.6
	040	7.5	186	11.0
	050	7.5	186	11.2
	040	10	140	14.3
	050	10	140	14.5
040	15	94	20.6	
050	15	94	20.7	
040	20	70	27.0	
050	20	70	27.5	
040	25	56	31.5	
050	25	56	32.8	
040	30	47	34.6	
050	30	47	36.4	
040	40	35	45.6	
050	40	35	47.3	
050	50	28	54.1	
050	60	24	54.5	
050	80	18	72.4	
063	80	18	76.7	
063	100	14	82.8	
0.37	040	5	280	11.2
	050	5	280	11.2
	040	7.5	186	16.3
	050	7.5	186	16.6

KW	NMRV	i	n ₂ (r/min)	M ₂ (N.M)
0.37	040	10	140	21.2
	050	10	140	21.5
	040	15	94	30.5
	050	15	94	30.6
	040	20	70	40.0
	050	20	70	40.7
	040	25	56	46.6
	050	25	56	48.7
	040	30	47	51.2
	050	30	47	53.8
	050	40	35	67.0
	063	40	35	72.3
	050	50	28	80.1
	063	50	28	83.3
0.55	050	60	24	80.6
	063	60	24	86.5
	063	80	18	113.5
	063	100	14	122.6
	040	5	280	16.6
	050	5	280	16.7
	040	7.5	186	24.3
	050	7.5	186	24.6
	040	10	140	31.5
	050	10	140	32.0
040	15	94	45.3	
050	15	94	45.5	
063	15	94	46.7	
050	20	70	60.5	
063	20	70	61.6	
050	25	56	72.3	
063	25	56	73.2	
050	30	47	80.0	
063	30	47	83.3	
050	40	35	104.0	
063	40	35	107.5	
075	40	35	115.7	
063	50	28	123.9	
075	50	28	144.3	
063	60	24	128.6	
075	60	24	156.5	
075	80	18	215.8	
075	100	14	235	
0.75	050	5	280	22.7
	050	7.5	186	33.6
	063	7.5	186	33.8
	050	10	140	43.6
	063	10	140	44.5
	050	15	94	62.0
	063	15	94	63.7
	050	20	70	82.4
063	20	70	84.0	

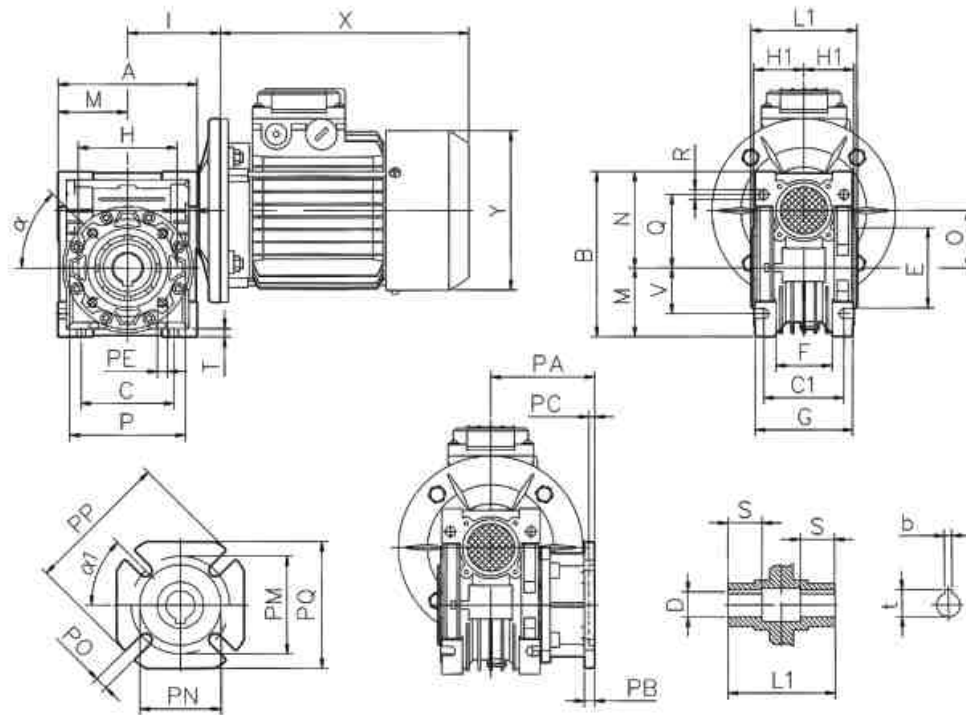
SPECIFICATION DATA 1

KW	NMRV	i	n ₂ (r/min)	M ₂ (N.M)
0.75	063	25	56	99.8
	063	30	47	113.6
	075	30	47	124.4
	063	40	35	146.6
	075	40	35	157.8
	075	50	28	196.8
	090	50	28	186.1
	075	60	24	213.4
	090	60	24	211.9
	090	80	18	261.1
	090	100	14	292.7
	1.1	063	7.5	186
075		7.5	186	51.4
063		10	140	65.3
075		10	140	67.8
063		15	94	93.5
075		15	94	98.6
063		20	70	123.2
075		20	70	127.7
063		25	56	146.4
075		25	56	159.2
063		30	47	166.7
075		30	47	182.5
075		40	35	231.4
090		40	35	229.7
090		50	28	272.9
090		60	24	310.8
110		60	24	319.1
110		80	18	403.8
110		100	14	471.2
1.5		063	7.5	186
	075	7.5	186	70.1
	063	10	140	89.1
	075	10	140	92.5
	063	15	94	127.5
	075	15	94	134.5
	063	20	70	167.9
	075	20	70	174.1
	075	25	56	217.1
	090	25	56	211.0
	075	30	47	248.9
	090	30	47	247.1
	090	40	35	313.3
	090	50	28	372.1

KW	NMRV	i	n ₂ (r/min)	M ₂ (N.M)
1.5	110	50	28	392.9
	090	60	24	423.8
	110	60	24	435.1
	110	80	18	550.7
	130	80	18	534.0
	130	100	14	672.2
2.2	075	7.5	186	102.8
	090	7.5	186	101.9
	110	7.5	186	101.8
	075	10	140	135.7
	090	10	140	134.8
	110	10	140	133.7
	075	15	94	197.3
	090	15	94	196.7
	110	15	94	192.7
	090	20	70	254.9
	110	20	70	254.5
	090	25	56	309.5
	110	25	56	319.2
	090	30	47	362.4
110	30	47	354.5	
110	40	35	465.8	
110	50	28	576.2	
130	50	28	568.7	
110	60	24	638.1	
130	60	24	655.6	
130	80	18	783.1	
130	100	14	985.9	
3.0	075	7.5	186	140.1
	090	7.5	186	139.0
	110	7.5	186	138.8
	075	10	140	185.0
	090	10	140	183.8
	110	10	140	182.3
	075	15	94	269.0
	090	15	94	268.2
	110	15	94	262.7
	090	20	70	347.7
	110	20	70	347.0
	090	25	56	422.0
	110	25	56	435.3
	090	30	47	494.1
110	30	47	483.3	
110	40	35	635.1	

KW	NMRV	i	n ₂ (r/min)	M ₂ (N.M)
3.0	130	40	35	637.6
	110	50	28	785.8
	130	50	28	775.5
	130	60	24	894.0
4.0	075	7.5	186	186.8
	090	7.5	186	185.3
	110	7.5	186	185.0
	130	7.5	186	187.1
	090	10	140	245.1
	110	10	140	243.1
	130	10	140	243.1
	090	15	94	357.7
	110	15	94	350.3
	130	15	94	354.3
	090	20	70	463.5
	110	20	70	462.7
	130	20	70	469.3
	110	25	56	580.4
	130	25	56	576.4
	110	30	47	644.5
130	30	47	652.6	
130	40	35	850.1	
130	50	28	1034.0	
130	60	24	1192.0	
5.5	110	7.5	186	254.4
	130	7.5	186	257.2
	110	10	140	334.3
	130	10	140	334.3
	110	15	94	481.6
	130	15	94	487.2
	110	20	70	636.2
	130	20	70	645.2
7.5	130	25	56	792.5
	130	30	47	897.3
	130	40	35	1168.9
	110	7.5	186	346.9
	130	7.5	186	350.8
	110	10	140	455.8
130	10	140	455.8	
130	15	94	664.8	
130	20	70	879.9	
130	25	56	1080.7	

INSTALLATION DIMENSION



NMRV	030	040	050	063	075	090	110	130
A	80	100	120	144	172	206	252.5	292.5
B	97	121.5	144	174	205	238	295	335
C	54	70	80	100	120	140	170	200
C1	44	60	70	85	90	100	115	120
D(H7)	14	18(19)	25(24)	25(28)	28(35)	35(38)	42	45
E(h8)	55	60	70	80	95	110	130	180
F	32	43	49	67	72	74	-	-
G	56	71	85	103	112	130	144	155
H	65	75	85	95	115	130	165	215
H1	29	36.5	43.5	53	57	67	74	81
I	55	70	80	95	112.5	129.5	160	180
L1	63	78	92	112	120	140	155	170
M	40	50	60	72	86	103	127.5	147.5
N	57	71.5	84	102	119	135	167.5	187.5
O	30	40	50	63	75	90	110	130
P	75	87	100	110	140	160	200	250
Q	44	55	64	80	93	102	125	140
R	6.5	6.5	8.5	8.5	11	13	14	16
S	21	26	30	36	40	45	50	60
T	5.5	6.5	7	8	10	11	14	15
V	27	35	40	50	60	70	85	100
PA	54.5	67	90	82	111	111	131	140
PB	6	7	9	10	13	13	15	15
PC	4	4	5	6	6	6	6	6
PE	M6x11 (n=4)	M6x8 (n=4)	M8x10 (n=4)	M8x14 (n=8)	M8x14 (n=8)	M10x18 (n=8)	M10x18 (n=8)	M12x21 (n=8)
PM	68	75	85	150	165	175	230	255
PN(H8)	50	60	70	115	130	152	170	180
PO	6.5(n=4)	9(n=4)	11(n=4)	11(n=4)	14(n=4)	14(n=4)	14(n=8)	16(n=6)
PP	80	110	125	180	200	210	280	320
PQ	70	95	110	142	170	200	260	290
b	5	6	8	8	8	10	12	14
t	16.3	20.8(21.8)	28.3(27.3)	28.3(31.3)	31.3(38.3)	38.3(41.3)	45.3	48.8
α	0°	45°	45°	45°	45°	45°	45°	45°
α1	45°	45°	45°	45°	45°	45°	45°	22.5°
Kg.	1.2	2.3	3.5	6.2	9	13	35	48