

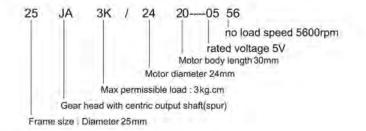
# PM BRUSH DC GEAR MOTOR





# PM DC GearMotor 25JA3K SERIES

# Indications of the model



# Gearhead Specifications

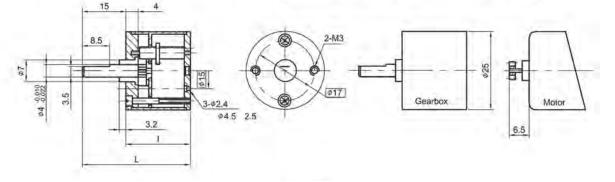
Number of gear trains	3	4	5	6	7
Reduction ratio	11	23 27	52 60 69 81	113 132 153 178 210	250 290 350 390 450
Rated permissible load kg.cm	1	1	2	3	3
Max permissible load in a short time kg.cm	2	2	4	6	6
Efficiency %	68	60	53	46	41
Radial play of shaft mm	≤0.1	≤0.1	≤ 0.1	≤ 0.1	≤ 0.1
Thrust play of shaft mm	< 0.35	≤0.35	≤ 0.35	≤ 0.35	≤0.35

# Gearhead Dimensions

Reduction ratio	- 1-	- L
10~30	21	36
50~90	23	38
100~200	25	40
250~700	27	42

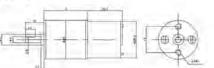
# Specifications of initial pinion

Module	0.4
No.of teeth	10
Pressure angle	20°
Outside diameter	\$ 5.04° 0.02
Hole diameter	\$ 5.04 <sup>+0.02</sup> +0.006
Range	Suitable of all range



# 25JA3K/2420

Dimensions





# Motor Technical Data

TYPE	Rated voltage VDC	No-load speed r/min	No-load current mA	Rated speed r/min	Rated torque g.cm	Output power W	Rated current mA	Stall torque g.cm	Stall current A
2420-0556	5	5600	55	4600	4.5	0.2	120	25	450
2420-0667	6	6700	65	5400	7	0.4	130	36	530
2420-1252	12	5200	40	3900	6.1	0.24	70	24	260

# Gearmotor Technical Data

25JA3K/2420-0556

Reduction ratio	11	23	27	52	60	69	81	113	132	153	178	210	250	290	350	390	450
Number of gear trains	3	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7	7
Length(L) mm	21	21	21	23	23	23	23	25	25	25	25	25	27	27	27	27	27
No-load speed r/min	509	243	207	108	93	81	69	61	42	37	31	27	22	19	16	14	12
Rated speed r/min	418	200	170	88	77	67	57	41	35	30	26	22	18	16	13	12	10
Rated torque kg.cm	0.03	0.06	0.07	0.12	0.14	0.16	0.19	0.23	0.27	0.32	0.37	0.43	0.46	0.30	0.64	0.72	0.83
Direction of rotation	CW	CCW	CCW	CW	CW	CW	CW	CCW	CCW	cow	CCW	CCW	CW	CW	CW	CW	CW

# 25JA3K/2420-0667

Reduction ratio	11	23	27	52	60	69	81	113	132	153	178	210	250	290	350	390	450
Number of gear trains	3	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7	7
Length(L) mm	21	21	21	23	23	23	23	25	25	25	25	25	27	27	27	27	27
No-load speed r/min	609	291	248	129	112	97	83	59	51	44	38	32	27	23	20	17	15
Rated speed r/min	491	235	200	104	90	78	67	48	41	35	30	26	22	19	16	14	12
Rated torque kg.cm	0.05	0.10	0.11	0.19	0.22	0.25	0.30	0.36	0.42	0.49	0.57	0.68	0.72	0.83	0.97	1.12	1.29
Direction of rotation	CW	CCW	CCW	CW	CW	CW	CW	CCW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CW

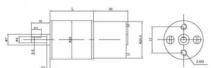
### 25JA3K/2420-1252

Reduction ratio	11	23	27	52	60	69	81	113	132	153	178	210	250	290	350	390	450
Number of gear trains	3	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7	7
Length(L) mm	21	21	21	23	23	23	23	25	25	25	25	25	27	27	27	27	27
No-load speed r/min	473	226	192	100	87	75	64	46	39	34	29	25	21	18	15	13	11
Rated speed r/min	354	169	144	75	65	56	48	34	29	25	22	18	16	13	11	10	8
Rated torque kg.cm	0.04	0.08	0.10	0.17	0.19	0.22	0.26	0.32	0.37	0.43	0.50	0.59	0.62	0.72	0.85	0.97	1.12
Direction of rotation	CW	CCW	CCW	CW	CW	CW	CW	CCW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CW

# PM DC GEARMOTOR

# 25JA3K/2430

# Dimensions





# Motor Technical Data

TYPE	Rated voltage	No-load speed	No-load current	Rated speed	Rated torque	Output power	Rated current	Stall torque	Stall current
	VDC	r/min	mA	r/min	g.cm	W	mA	g.cm	А
2430-0545	5	4500	110	3500	20	0.7	250	90	1.1
2430-0655	6	5500	110	4500	25	1.1	300	130	1.2
2430-1255	12	5500	60	4000	30	1.2	220	100	0.8

# • Gearmotor Technical Data

25JA3K/2430-0545

Reduction ratio	11	23	27	52	60	69	81	113	132	153	178	210	250	290	350	390	450
Number of gear trains	3	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7	7
Length(L) mm	21	21	21	23	23	23	23	25	25	25	25	25	27	27	27	27	27
No-load speed r/min	409	195	166	86	75	65	55	39	34	25	25	21	18	15	12	11	10
Rated speed r/min	318	152	129	67	58	50	43	31	26	22	19	16	14	12	10	9	8
Rated torque kg.cm	0.15	0.27	0.32	0.55	0.63	0.73	0.85	1.0	1.2	1.4	1.6	1.9	2.0	2.3	2.8	3	3
Direction of rotation	CW	CCW	CCW	CW	CW	CW	CW	COW	CCW	COW	CCW	CCW	CW	CW	CW	CW	CW

### 25JA3K/2430-0655

Reduction ratio	11	23	27	52	60	69	81	113	132	153	178	210	250	290	350	390	450
Number of gear trains	3	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7	7
Length(L) mm	21	21	21	23	23	23	23	25	25	25	25	25	27	27	27	27	27
No-load speed r/min	500	239	204	106	92	80	68	49	42	36	31	26	22	19	16	14	12
Rated speed r/min	409	195	166	86	75	65	55	39	34	29	25	21	18	15	13	12	11
Rated torque kg.cm	0.17	0.30	0.35	0.63	0.73	0.85	1.0	1.2	1.4	1.6	1.9	2.3	2.4	2.8	3	3	3
Direction of rotation	CW	CCW	CCW	CW	CW	CW	CW	cow	CCW	œw	CCW	CCW	CW	CW	CW	CW	CW

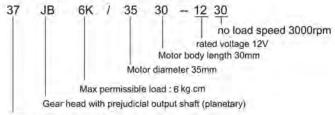
### 25JA3K/2430-1255

Reduction ratio	11	23	27	52	60	69	81	113	132	153	178	210	250	290	350	390	450
Number of gear trains	3	4	4	5	5	5	5	6	6	6	6	6	7	7	7	7	7
Length(L) mm	21	21	21	23	23	23	23	25	25	25	25	25	27	27	27	27	27
No-load speed r/min	500	239	204	106	92	80	68	49	42	36	31	26	22	19	16	14	12
Rated speed r/min	364	174	148	77	67	60	49	35	30	26	22	19	16	15	13	12	10
Rated torque kg.cm	0.22	0.41	0.49	0.83	0.95	1.1	1.3	1.6	1.8	2.1	2.4	2.9	3	3	3	3	3
Direction of rotation	CW	CCW	CCW	CW	CW	CW	CW	CCW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CW

# PM DC GearMotor

# **37JB6K SERIES**

# Indications of the model



Frame size : Diameter 37 mm

# Gearhead Specifications

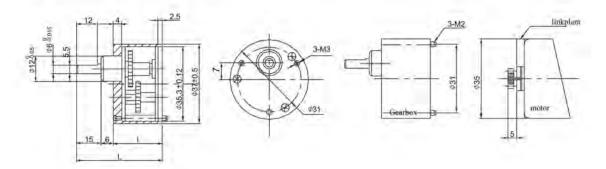
Number of gear trains	1.1.1	2	3	4	5	6	7
Reduction ratio	6	10	18 30	50 60 75 100	120 150 180 200 250 300	350 400 450 500 600 750 1000	1500 3000
Rated permissible load kg	g.cm	1	2	4	6	6	6
Max permissible load in a short time	kg.cm	3	6	12	18	18	18
Efficiency	%	81	73	66	59	53	48
Radial play of shaft	mm ≶	€0.1	≤0.1	≪0.1	≪ 0.1	≤0.1	≤0.1
Thrust play of shaft	mm ≤	0.35	≤0.35	≤ 0.35	≤ 0.35	≤ 0.35	≪ 0.35

# Gearhead Dimensions

Reduction ratio	- X	L
6~10	19	40
18~30	21.5	42.5
50~100	24	45
120~300	26.5	47.5
350~1000	29	50
1500~3000	31.5	52.5

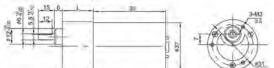
# Specifications of initial pinion

Module	0.5
No.of teeth	10
Pressure angle	20°
Outside diameter	ψ 6.32° <sub>-0.02</sub> .
Hole diameter	ф 2 <sup>+0.02</sup>
Range	Suitable of all range



# 37JB6K/3530

# Dimensions





# Motor Technical Data

TYPE	Rated voltage VDC	No-load speed r/min	No-load current mA	Rated speed r/min	Rated torque g.cm	Output power W	Rated current mA	Stall torque g.cm	Stall current A
3530-1230	12	3000	80	2400	50	1.2	280	250	1.4
3530-1250	12	5000	100	4300	40	1.8	330	285	1.5
3530-2450	24	5000	80	4100	50	2.1	210	277	0.8

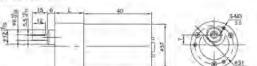
# Gearmotor Technical Data

37JB6K/3530-1230

Reduction ratio	10	18	30	50	75	100	150	200	250	300	400	500	750	1000	1500	3000
Number of gear trains	2	3	3	4	4	4	5	5	5	5	6	6	6	6	7	7
Length(L) mm	19	21.5	21.5	24	24	24	26.5	26.5	26.5	26.5	29	29	29	29	31.5	31.5
No-load speed r/min	300	167	100	60	40	30	20	15	12	10	7.5	6	4	3	2	1
Rated speed r/min	240	133	80	48	32	24	16	12	10	8.6	6.6	5.4	3.7	2.9	1.9	1
Rated torque kg.cm	0.4	0.7	1.1	1.7	2.5	3.3	4.4	5.9	6	6	6	6	6	6	6	6
Naxpernissible load in a short line kg.cm	3	6	6	12	12	12	18	18	18	18	18	18	18	18	18	18
Direction of rotation	CCW	CW	CW	CCW	CCW	CCW	CW	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW
37JB6K/3530-12	50	-	_												-	
Reduction ratio	10	18	30	50	75	100	150	200	250	300	400	500	750	1000	1500	3000
Number of gear trains	2	3	3	4	4	4	5	5	5	5	6	6	6	6	7	7
Length(L) mm	19	21.5	21.5	24	24	24	26.5	26.5	26.5	26.5	29	29	29	29	31.5	31.5
No-load speed r/min	500	270	160	100	65	50	33	25	20	16	12	10	6.6	5.0	3.3	1.6
Rated speed r/min	430	230	140	86	57	43	28	21	17	14	11.3	9.2	6.3	4.8	3.3	1.6
Rated torque kg.cm	0.4	0.5	0.9	1.3	2.0	2.6	3.5	4.7	5.9	6	6	6	6	6	6	6
Maxpermissible kad in a short time k.g. crm	3	6	6	12	12	12	18	18	18	18	18	18	18	18	18	18
Direction of rotation	CCW	CW	CW	CCW	CCW	CCW	CW	CW	CW	CW	CCW	ccw	CCW	CCW	CW	CW
37JB6K/3530-24	50															
Reduction ratio	10	18	30	50	75	100	150	200	250	300	400	500	750	1000	1500	3000
Number of gear trains	2	3	3	4	4	4	5	5	5	5	6	6	6	6	7	7
Length(L) mm	19	21.5	21.5	24	24	24	26.5	26.5	26.5	26.5	29	29	29	29	31.5	31.5
No-load speed r/min	500	270	160	100	65	50	33	25	20	16	12	10	6.6	5.0	3.3	1.6
Rated speed r/min	410	220	130	80	50	41	27	20	16	13	11	9.2	6.3	4.8	3.2	1.6
Rated torque kg.cm	0.4	0.6	1.0	1.6	2.4	3.3	4.4	5.9	6	6	6	6	6	6	6	6
Maxpermissible load in a short line k.gcrn	3	6	6	12	12	12	18	18	18	18	18	18	18	18	18	18
Direction of rotation	CCW	CW	CW	CCW	CCW	CCW	CW	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW

# 37JB6K/3540

### Dimensions





# Motor Technical Data

TYPE	Rated voltage VDC	No-load speed r/min	No-load current mA	Rated speed r/min	Rated torque g.cm	Output power W	Rated current mA	Stall torque g.cm	Stall current A
3540-1230	12	3000	90	2300	90	2.1	400	385	0.8
3540-1250	12	5000	110	4300	80	3.5	570	570	2.2
3540-2450	24	5000	60	4100	100	4.2	380	555	2.5

# Gearmotor Technical Data

### 37JB6K/3540-1230

Reduction ratio	6	10	18	30	50	75	100	150	200	250	300
Number of gear trains	2	2	3	3	4	4	4	5	5	5	5
Length(L) mm	19	19	21.5	21.5	24	24	24	26.5	26.5	26.5	26.5
No-load speed r/min	500	300	167	100	60	40	30	20	15	12	10
Rated speed r/min	383	230	128	77	46	31	23	16	13	10.7	9
Rated torque kg.cm	0.4	0.7	1,2	2.0	3.0	4.4	5.9	6	6	6	6
Maxpermissible load in a short time kg.cm	3	3	6	6	12	12	12	18	18	18	18
Direction of rotation	CCW	CCW	CW	CW	CCW	CCW	CCW	CW	CW	CW	CW

### 37JB6K/3540-1250

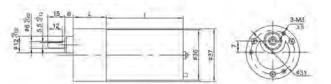
Reduction ratio	6	10	18	30	50	75	100	150	200	250	300
Number of gear trains	2	2	3	3	4	4	4	5	5	5	5
Length(L) mm	19	19	21.5	21.5	24	24	24	26.5	26.5	26.5	26.5
No-load speed r/min	830	500	270	160	100	65	50	33	25	20	16
Rated speed r/min	710	430	230	140	86	57	43	28	21	17	14
Rated torque kg.cm	0.3	0.6	1.0	1.7	2.6	3.9	5.2	6	6	6	6
Maxpermissible load in a short time kg.cm	3	3	6	6	12	12	12	18	18	18	18
Direction of rotation	CCW	CCW	CW	CW	CCW	CCW	CCW	CW	CW	CW	CW

## 37JB6K/3540-2450

Reduction ratio	6	10	18	30	50	75	100	150	200	250	300
Number of gear trains	2	2	з	3	4	4	4	5	5	5	5
Length(L) mm	19	19	21.5	21.5	24	24	24	26.5	26.5	26.5	26.5
No-load speed r/min	830	500	270	160	100	65	50	33	25	20	16
Rated speed r/min	680	410	220	130	80	50	42	29	22	19	16
Rated torque kg.cm	0.5	0.8	1.3	2.2	3.3	5.0	6	6	6	6	6
Maxpermissible load in a short time kg.cm	3	3	6	6	12	12	12	18	18	18	18
Direction of rotation	CCW	CCW	CW	CW	CCW	CCW	CCW	CW	CW	CW	CW

# 37JB6K/3650 37JB6K/3657

Dimensions





# Motor Technical Data

TYPE	Rated voltage	No-load speed	No-load current	Rated speed	Rated torque	Output power	Rated current	Stall torque	Stall current
	VDC	r/min	mA	r/min	g.cm	W	A	g.cm	A
3650-1242	12	4200	200	3300	120	4	1.2	520	3,5
3657-1242	12	4200	300	3650	185	7	2	1380	5
3650-2442	24	4200	120	3300	120	4	0.6	520	1.6
3657-2442	24	4200	160	3650	185	7	1	1380	2.5

# Gearmotor Technical Data

37JB6K/3650-1242 (I=50mm)

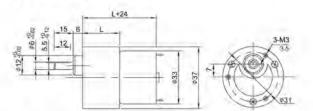
Reduction ratio		6	10	18	30	50	75	100	150	200	250	300
Number of gear trai	ns	2	2	3	3	4	4	4	5	5	5	5
Length(L)	mm	19	19	26.5	26.5	29	29	29	31.5	31.5	31.5	31.5
No-load speed	r/min	700	420	233	140	84	56	42	28	21	17	14
Rated speed	r/min	550	330	183	110	66	44	33	24	19	15	13
Rated torque	kg.cm	0.6	0.9	1.6	2.6	3.9	5.9	6	6	6	6	6
Maxpermissible load in a short time	kg.cm	3	3	6	6	12	12	12	18	18	18	18
Direction of rotation		CCW	CCW	CW	CW	CCW	CCW	CCW	CW	CW	CW	CW

### 37JB6K/3657-1242 (I=57mm)

Reduction ratio		6	10	18	30	50	75	100
Number of gear trains		2	2	3	3	4	4	4
Length(L)	mm	19	19	26.5	26.5	29	29	29
No-load speed	r/min	700	420	233	140	84	56	42
Rated speed	r/min	608	365	202	122	73	51	39
Rated torque	kg.cm	0.9	1.5	2.4	4.0	6	6	6
Max.permissible load in a sh	nort time kg.cm	3	3	6	6	12	12	12
Direction of rotation		CCW	CCW	ĊŴ	CW	CCW	CCW	CCW

37JB6K/3324

Dimensions





# Motor Technical Data

TYPE	Rated voltage VDC	No-load speed r/min	No-load current mA	Rated speed r/min	Rated torque g.cm	Output power W	Rated current mA	Stall torque g.cm	Stall current A
3324-0630	6	2900	50	2200	25	0.56	170	100	0.46
3324-1230	12	3000	45	2300	25	0.59	90	100	0.26
3324-2430	24	3000	35	2300	25	0.59	70	100	0.14

# Gearmotor Technical Data

37JB6K/3324-0630

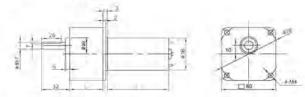
Reduction ratio	6	10	18	30	50	75	100	150	200	250	300	400	500	750	1000
Number of gear trains	2	2	3	3	4	4	4	5	5	5	5	6	6	6	6
Length(L) mm	19	19	21.5	21.5	24	24	24	26.5	26.5	26.5	26.5	29	29	29	29
No-load speed r/min	483	290	161	96	58	38	29	19	14	11	9	7	5.5	3.5	3
Rated speed r/min	366	230	122	73	44	29	22	14	11	8	7	5.5	4.5	3	3
Rated torque kg.cm	0.1	0.2	0.3	0.5	0.8	1.2	1.6	2.2	2.9	3.7	4.4	5.3	6	6	6
Maxpernissible load in a short lime k.gcm	3	3	6	6	12	12	12	18	18	18	18	18	18	18	18
Direction of rotation	CCW	CCW	CW	CW	CCW	CCW	CCW	CW	CW	CW	CW	CCW	CCW	CCW	CCW

# 37JB6K/3324-1230

Reduction ratio	6	10	18	30	50	75	100	150	200	250	300	400	500	750	1000
Number of gear trains	2	2	3	3	4	4	4	5	5	5	5	6	6	6	6
Length(L) mm	19	19	21.5	21.5	24	24	24	26.5	26.5	26.5	26.5	29	29	29	29
No-load speed r/min	500	300	167	100	60	40	30	20	15	12	10	7.5	6	4	3
Rated speed r/min	383	230	127	76	46	30	23	15	11	9	7.5	6	4.5	3	2.5
Rated torque kg.cm	0.1	0.2	0.3	0.5	0.8	1.2	1.6	2.2	2.9	3.7	4.4	5.3	6	6	6
Maxpermissible load in a short time kgu.cm	3	3	6	6	12	12	12	18	18	18	18	18	18	18	18
Direction of rotation	CCW	CCW	CW	CW	CCW	CCW	CCW	CW	CW	CW	CW	CCW	CCW	CCW	CCW

# 60JB25K/3650 60JB25K/3657

Dimensions





# Motor Technical Data

TYPE	Rated voltage VDC	No-load speed r/min	No-load current mA	Rated speed r/min	Rated torque g.cm	Output power W	Rated current	Stall torque g.cm	Stall current mA	Length(I)
3650-1242	12	4200	200	3300	120	4	1.2	520	3.5	50
3657-1242	12	4200	300	3650	185	7	2	1380	5	57
3650-2442	24	4200	120	3300	120	4	0.6	520	1.6	50
3657-2442	24	4200	160	3650	185	7	t	1380	2.5	57

# • Gearmotor Technical Data

12VDC

Motor type			v	60JB	25K/365	7-1242			60JB2	25K/365	0-1242
Reduction ratio		50	60	75	90	100	120	150	250	360	600
Number of gear trains		4	4	4	4	4	4	4	6	6	6
Length(L)	mm	42	42	42	42	42	42	42	42	42	42
No-load speed	r/min	84	70	56	47	42	35	28	17	12	7
Rated speed	r/min	73	61	48	40	36	30	24	13	9	7
Rated torque	kg.cm	6.1	7.3	9.1	11.0	12.2	14.6	18.3	17.7	2.3	25
Max.permissible load in a short time	kg.cm	50	50	50	50	50	50	50	50	50	50
Direction of rotation		CCW	CCW	CCW	CCW	CCW	CCW	CCW	CCW	CCW	CCW

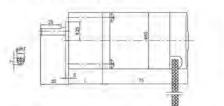
# 24VDC

Motor type		-		60JB2	25K/3657	-2442			60JB2	25K/3650	)-2442
Reduction ratio		50	60	75	90	100	120	150	250	360	600
Number of gear trains		4	4	4	4	4	4	4	6	6	6
Length(L)	mm	42	42	42	42	42	42	42	42	42	42
No-load speed	r/min	84	70	56	47	42	35	28	17	12	7
Rated speed	r/min	73	61	48	40	36	30	24	13	9	7
Rated torque	kg.cm	6.1	7.3	9.1	11.0	12.2	14.6	18.3	17.7	2.3	25
Max.permissible load in a short time	kg.cm	50	50	50	50	50	50	50	50	50	50
Direction of rotation		CCW	CCW	CCW	CCW	CCW	CCW	CCW	CCW	CCW	CCW

60JB25K/6075

10122-00

Dimensions







# Motor Technical Data

TYPE	Rated voltage VDC	No-load speed r/min	No-load current A	Rated speed r/min	Rated torque g.cm	Output power W	Rated current A	Stall torque g.cm	Stall current A
6075-2420	24	2000	0.30	1500	350	5.4	0.8	1900	2.4
6075-2430	24	3000	0.4	2500	400	10.2	1.1	2600	5

# Gearmotor Technical Data

60JB25K/6075-2420(5.4W)

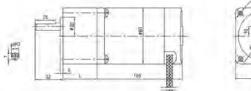
Reduction ratio	3	5	7.5	10	12.5	15	25	30	50	75	90	100	120	150
Number of gear trains	2	2	2	2	2	3	3	3	4	4	4	4	4	4
Length(L) mm	32	32	32	32	32	42	42	42	42	42	42	42	42	42
No-load speed r/min	666	400	266	200	160	133	80	66	40	26	22	20	16	13
Rated speed r/min	500	300	200	150	120	100	60	50	30	20	16	15	13	11
Rated torque kg.cm	0.8	1.4	2.1	2.8	3.5	3.8	6.4	7.6	11.5	17.3	20.8	23.1	25	25
Mexpermissible load in a short time kg.com	30	30	30	30	30	50	50	50	50	50	50	50	50	50
Direction of rotation	CCW	CCW	CCW	CCW	COW	CW	CW	CW	CCW	CCW	CCW	COW	CCW	œw

# 60JB25K/6075-2430(10.2W)

Reduction ratio	3	5	7.5	10	12.5	15	25	30	50	75	90	100	120	150
Number of gear trains	2	2	2	2	2	3	3	3	4	4	4	4	4	4
Length(L) mm	32	32	32	32	32	42	42	42	42	42	42	42	42	42
No-load speed r/min	1000	600	400	300	240	200	120	100	60	40	33	30	25	20
Rated speed r/min	833	500	333	250	200	166	100	83	50	33	27	25	21	18
Rated torque kg.cm	0.9	1.6	2.4	3.2	4.0	4.4	7.3	8.7	13.2	19.8	23.7	25	25	25
Naupernissible load in a short time k.g. cm	30	30	30	30	30	50	50	50	50	50	50	50	50	50
Direction of rotation	CCW	CCW	CCW	CCW	ccw	CW	CW	CW	CCW	CCW	CCW	COW	CCW	cow

60JB25K/60105

Dimensions







# Motor Technical Data

TYPE	Rated voltage VDC	No-load speed r/min	No-load current A	Rated speed r/min	Rated torque g.cm	Output power W	Rated current A	Stall torque g.cm	Stall current A
60105-1219	12	1900	0.35	1250	1200	15	2	6000	8
60105-2419	24	1900	0.2	1250	1200	15	1	6000	4

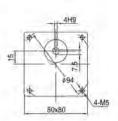
# Gearmotor Technical Data

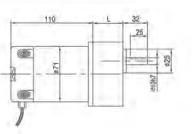
60JB25K/60105-1219(12VDC) 60JB25K/60105-2419(24VDC)

Reduction ratio	3	5	7.5	10	12.5	15	25	30	50	75	90	100	120	150
Number of gear trains	2	2	2	2	2	3	3	3	4	4	4	4	4	4
Length(L) mm	32	32	32	32	32	42	42	42	42	42	42	42	42	42
No-load speed r/min	633	380	253	190	152	126	76	63	38	25	21	19	16	12
Rated speed r/min	417	250	166	125	100	83	50	41	30	19	18	17	14	11
Rated torque kg.cm	2.9	4.6	7.3	9.7	12.1	13.2	21.9	25	25	25	25	25	25	25
Mexpermissible load in a stich time k.g.cm	30	30	30	30	30	50	50	50	50	50	50	50	50	50
Direction of rotation	CCW	CCW	CCW	CCW	CCW	CW	CW	CW	CCW	CCW	CCW	CCW	CCW	cow

80JB80K/73110

Dimensions







# Motor Technical Data

TYPE	Rated voltage VDC	No-load speed r/min	No-load current A	Rated speed r/min	Rated torque kg.cm	Output power W	Rated current A	Stall torque kg.cm	Stall current A
73110-2420	24	2000	0.40	1600	2.0	33	2.4	10	9.5
73110-2430	24	3000	0.58	2400	2.4	59	3.5	12	14

# Gearmotor Technical Data

80JB80K/73110-2420(33W)

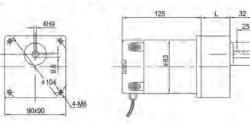
Reduction ratio	3	5	7.5	12.5	15	25	30	50	75	100	120	150
Number of gear trains	2	2	2	2	2	3	3	3	4	4	4	4
Length(L) mm	32	32	32	32	32	44	44	44	44	44	44	44
No-load speed r/min	667	400	267	160	133	80	67	40	27	20	17	13
Rated speed r/min	533	320	213	128	106	64	53	32	21	16	14	11
Rated torque kg.cm	5	8	12	20	24	36	44	72	80	80	80	80
Vaxpernisable load in a short time lkg.cm	20	40	40	40	40	80	80	120	120	120	120	120
Direction of rotation	CCW	CCW	CCW	CCW	COW	CW	CW	CW	COW	CCW	CCW	CCW

# 80JB80K/73110-2430(59W)

Reduction ratio	-	3	5	7.5	12.5	15	25	30	50	75
Number of gear tr	ains	2	2	2	2	2	3	3	3	4
Length(L)	mm	32	32	32	32	32	44	44	44	44
No-load speed	r/min	1000	600	400	240	200	120	100	60	40
Rated speed	r/min	800	480	320	192	160	96	80	48	34
Rated torque	kg.cm	6	17	14	24	29	44	52	80	80
Max permissible load in a sho	rt time kg.cm	20	40	40	40	40	80	80	120	120
Direction of rotatio	n l	CCW	CCW	CCW	CCW	CCW	CW	CW	CW	CCW

# 90JB200K/83125

Dimensions





# Motor Technical Data

TYPE	Rated voltage VDC	No-load speed r/min	No-load current A	Rated speed r/min	Rated torque kg.cm	Output power W	Rated current A	Stall torque kg.cm	Stall current A
83125-2420	24	2000	0.80	1700	2,4	42	3.5	16	17
83125-2430	24	3000	0.90	2500	3	77	4.6	18	20

3

# Gearmotor Technical Data

90JB200K/83125-2420(42W)

Reduction ratio	3	5	7.5	12.5	15	25	30	50	75	100	120	150
Number of gear trains	2	2	2	2	2	3	3	3	3	4	4	4
Length(L) mm	45	45	45	45	45	60	60	60	60	60	60	60
Dia.of shaft ( $\phi$ ) mm	12	12	12	12	12	12	12	12	12	12	12	12
No-load speed r/min	667	400	267	160	133	80	67	40	27	20	16	13
Rated speed r/min	567	340	227	136	113	68	57	34	23	17	14	12
Rated torque kg.cm	6	10	14	24	29	44	52	87	131	158	190	200
Maxpernisable kaid in a short lime kg.cm	45	65	65	65	65	90	90	250	250	250	250	250
Direction of rotation	CCW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CCW	œw	CCW

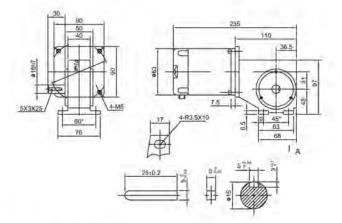
# 90JB200K/83125-2430(77W)

Reduction ratio	3	5	7.5	12.5	15	25	30	50	75	100
Number of gear trains	2	2	2	2	2	3	3	3	3	4
Length(L) mm	45	45	45	45	45	60	60	60	60	60
Dia.of shaft ( ) mm	12	12	12	12	12	12	12	12	12	12
No-load speed r/min	1000	600	400	240	200	120	100	60	40	30
Rated speed r/min	833	500	333	200	167	100	83	50	35	27
Rated torque kg.cm	8	12	18	30	36	55	66	109	164	198
Max.permissible load in a short time kg.cm	45	120	120	120	120	170	170	250	250	250
Direction of rotation	CCW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CCW

# PM DC WORM GEARMOTOR

# 90JWG200K/83125

Dimensions





# Motor Technical Data

TYPE	Rated voltage VDC	No-load speed r/min	No-load current A	Rated speed r/min	Rated torque kg.cm	Output power W	Rated current A	Stall torque kg.cm	Stall current A
83125-2420	24	2000	0.80	1700	2.4	42	3.5	16	17
83125-2430	24	3000	0.90	2500	3	77	4.6	18	20

# Gearmotor Technical Data

# 90JWG200K/83125-2420(42W)

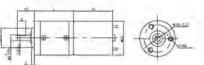
Reduction ratio	50	40	32	25	16	12.5
No-load speed r/min	40	50	62	80	125	160
Rated speed r/min	30	37	46	60	93	120
Rated torque kg.cm	63	50	40	31	14	11

# 90JWG200K/83125-2430(77W)

Reduction ratio	50	40	32	25	16	12.5
No-load speed r/min	60	75	93	120	187	240
Rated speed r/min	46	57	71	92	143	184
Rated torque kg.cm	80	64	51	40	18	14

# 24JX5K/2430

# Dimensions



<ul> <li>Motor</li> </ul>	Technic	al Data							
TYPE	Rated voltage VDC	No-load speed r/min	No-load current mA	Rated speed r/min	Rated torque g.cm	Output power W	Rated current mA	Stall torque g.cm	Stall current A
2430-1230	12	3000	40	2400	20	0.5	90	100	0.3
2430-1245	12	4500	60	3600	25	0.9	170	125	0.5
2430-1260	12	6000	70	4800	30	1.5	240	150	1.0

# Gearmotor Technical Data

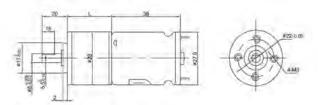
24JX5K/2430-1230

Reduction ratio	4	5	14	19	27	51	71	100	139	189	265	369	516	720
Number of gear trains	2	2	3	3	3	4	4	4	54	5	5	5	5	5
Length(L) mm	25	25	25	25	25	30	30	30	30	39	39	39	39	39
No-load speed r/min	750	600	214	157	111	58	42	30	21	15	11	8	5	4
Rated speed r/min	600	480	171	126	88	47	34	24	17	12	9	6	4	3.6
Rated torque kg.cm	0.07	0.09	0.2	0.3	0.4	0.6	0.9	1.3	1.8	2.1	2.9	4.0	5.0	5.0
Maxpermissible load in a short lime k.gcm	3	3	6	6	6	8	8	8	8	12	12	12	12	12
Direction of rotation	CCW	CCW	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CW
24JX5K/2430-124	5		1		-		1	<u>n.</u> 1			12.			
Reduction ratio	4	5	14	19	27	51	71	100	139	189	265	369	516	720
Number of gear trains	2	2	3	3	3	4	4	4	4	5	5	5	5	5
Length(L) mm	25	25	25	25	25	30	30	30	30	39	39	39	39	39
No-load speed r/min	1125	900	321	236	166	88	63	45	32	23	17	12	8	6
Rated speed r/min	900	720	257	189	133	70	50	36	26	19	13	10	7	5.6
Rated torque kg.cm	0.09	0.1	0.2	0.3	0.5	0.8	1.1	1.6	2.2	2.6	3.6	5.0	5.0	5,0
Maxpermissible load in a short time kg.cm	3	3	6	6	6	8	8	8	8	12	12	12	12	12
Direction of rotation	CCW	CCW	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CW
24JX5K/2430-126	0													
Reduction ratio	4	5	14	19	27	51	71	100	139	189	265	369	516	720
Number of gear trains	2	2	3	3	3	4	4	4	4	5	5	5	5	5
Length(L) mm	25	25	25	25	25	30	30	30	30	39	39	39	39	39
No-load speed r/min	1500	1200	428	315	222	117	84	60	43	31	22	16	11	8
Rated speed r/min	1200	960	342	252	177	94	67	48	34	25	18	13	8	7
Rated torque kg.cm	0.1	0.1	0.3	0.4	0.6	1.0	1.3	1.9	2.7	3.1	4.3	5.0	5.0	5.0
Maxpernissible load in a short lime kig.cm	3	3	6	6	6	8	8	8	8	12	12	12	12	12
Direction of rotation	CCW	CCW	GW	CW	CW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CW



# 28JX10K/2838

Dimensions





# Motor Technical Data

TYPE	Rated voltage VDC	No-load speed r/min	No-load current mA	Rated speed r/min	Rated torque g.cm	Output power W	Rated current mA	Stall torque g.cm	Stall current A
2838-1230	12	3000	60	2500	55	1.4	220	320	1.0
2838-1240	12	4000	70	3000	70	2.1	320	260	1.0

# Gearmotor Technical Data

### 28JX10K/2838-1230

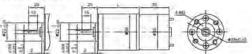
Reduction ratio	4	5	14	19	27	51	71	100	139	189	265	369	516	720
Number of gear trains	2	2	3	3	3	4	4	4	4	5	5	5	5	5
Length(L) mm	38	38	38	38	38	44	44	44	44	50	50	50	50	50
No-load speed r/min	750	600	214	157	111	58	42	30	21	15	11	8	6	4
Rated speed r/min	625	500	178	131	92	49	35	25	18	13	9	6	5	3
Rated torque kg.cm	0.1	0.2	0.5	0.7	1.1	1.8	2.5	3.6	4.9	5.7	8.0	10	10	10
Maxpermissible load in a short time kg.cm	5	5	10	10	10	20	20	20	20	30	30	30	30	30
Direction of rotation	CCW	CCW	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CW

## 28JX10K/2838-1240

Reduction ratio	4	5	14	19	27	51	71	100	139	189	265	369	516	720
Number of gear trains	2	2	3	3	3	4	4	4	4	5	5	5	5	5
Length(L) mm	38	38	38	38	38	44	44	44	44	50	50	50	50	50
No-load speed r/min	1000	800	285	210	148	78	56	40	28	21	15	10	7	5
Rated speed r/min	750	600	214	157	111	58	42	30	21	15	11	8	6	4
Rated torque kg.cm	0.2	0.3	0.7	0.9	1.3	2.3	3.2	4.5	6.3	7.2	10	10	10	10
Maxpermissible load in a short time kg.cm.	5	5	10	10	10	20	20	20	20	30	30	30	30	30
Direction of rotation	CCW	CCW	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CW

# 36JX10K/3530

# Dimensions





# Motor Technical Data

TYPE	Rated voltage	No-load speed	No-load current	Rated speed	Rated torque	Output power	Rated current	Stall torque	Stall current
	VDC	r/min	mA	r/min	g.cm	W	mA	g.cm	A
3530-1230	12	3000	80	2400	50	1.2	280	250	1.4
3530-1240	12	4000	90	3200	50	1.6	300	250	1.0
3530-1250	12	5000	100	4300	40	1.8	330	285	1.5
3530-2430	24	3000	45	2400	50	1.2	150	250	0.8
3530-2440	24	4000	50	3200	50	1.6	180	250	0.6
3530-2450	24	5000	60	4100	50	2.1	210	277	0.8

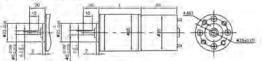
# Gearmotor Technical Data

36JX10K/3530-1230

Reduction ratio	4	5	14	19	27	51	71	100	139	189	264	369	516	720
Number of gear trains	2	2	3	3	3	4	4	4	4	5	5	5	5	5
Length(L) mm	35.5	35.5	35.5	35.5	35.5	41.5	41.5	41.5	41.5	47.5	47.5	47.5	47.5	47.5
No-load speed r/min	750	600	214	157	111	59	42	30	21	16	11	8	6	4
Rated speed r/min	600	480	171	126	88	47	34	24	17	12	9	6	4	3
Rated torque kg.cm	0.1	0.2	0.5	0.7	0.9	1.6	2.3	3.2	4.5	5.2	7.2	10	10	10
Maxpermissible load in a short time kg.cm	5	5	10	10	10	20	20	20	20	30	30	30	30	30
Direction of rotation	CCW	CCW	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CW
36JX10K/3530-12	40											_		
Reduction ratio	4	5	14	19	27	51	71	100	139	189	264	369	516	720
Number of gear trains	2	2	3	3	3	4	4	4	4	5	5	5	5	5
Length(L) mm	35.5	35.5	35.5	35.5	35.5	41.5	41.5	41.5	41.5	47.5	47.5	47.5	47.5	47.5
No-load speed r/min	1000	800	285	210	148	78	56	40	29	21	15	11	8	5
Rated speed r/min_	800	640	228	168	118	62	45	32	23	17	12	8	6	4
Rated torque kg.cm	0.1	0.2	0.5	0.7	0.9	1.6	2.3	3.2	4.5	5.2	7.2	10	10	10
Maxpermissible load in a short time kg.cm	5	5	10	10	10	20	20	20	20	30	30	30	30	30
Direction of rotation	CCW	CCW	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CW
36JX10K/3530-12	50													
Reduction ratio	4	5	14	19	27	51	71	100	139	189	264	369	516	720
Number of gear trains	2	2	3	3	3	4	4	4	4	5	5	5	5	5
Length(L) mm	35.5	35.5	35.5	35.5	35.5	41.5	41.5	41.5	41.5	47.5	47.5	47.5	47.5	47.5
No-load speed r/min	1250	1000	357	263	189	98	70	50	36	26	19	13	10	7
Rated speed r/min	1075	860	307	226	159	84	60	43	31	23	16	11	8	6
Rated torque kg.cm	0.1	0.1	0.4	0.5	0.7	1.3	1.8	2.6	3.6	4,1	5.8	8.1	10	10
Maxpermissible load in a short time kg.cm	5	5	10	10	10	20	20	20	20	30	30	30	30	30
Direction of rotation	CCW	CCW	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW	CW	CW	CW

# 36JX10K/3540

# Dimensions



# (ADD)

## Motor Technical Data

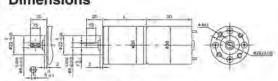
TYPE	Rated voltage	No-load speed	No-load current	Rated speed	Rated torque	Output power	Rated current	Stall torque	Stall current
	VDC	r/min	mA	r/min	g.cm	W	mA	g.cm	A
3540-1230	12	3000	90	2300	90	2.1	400	385	0.8
3540-1240	12	4000	100	3200	100	3.3	550	500	2.1
3540-1250	12	5000	110	4300	80	3.5	600	570	2.2
3540-2430	24	3000	50	2300	90	2.1	210	385	1.5
3540-2440	24	4000	55	3000	100	3.1	230	400	0.7
3540-2450	24	5000	60	4100	100	4.2	380	555	2.0

# Gearmotor Technical Data

36JX10K/3540-1230

Reduction ratio	4	5	14	19	27	51	71	100	139	189	264	369
Number of gear trains	2	2	3	3	3	4	4	4	4	5	5	5
Length(L) mm	35.5	35.5	35.5	35.5	35.5	41.5	41.5	41.5	41.5	47.5	47.5	47.5
No-load speed r/min	750	600	214	157	111	59	42	30	21	16	11	8
Rated speed r/min	575	460	164	121	85	45	32	23	16	12	9	6
Rated torque kg.cm	0.3	0.36	0.9	1.2	1.7	3.0	4.1	5.8	8.1	9.3	10	10
Maxpermissible load in a short lime kig.cm	5	5	10	10	10	20	20	20	20	30	30	30
Direction of rotation	CCW	CCW	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW	CW
36JX10K/3540-12	40	-	1			1000						
Reduction ratio	4	5	14	19	27	51	71	100	139	189	264	369
Number of gear trains	2	2	3	3	3	4	4	4	4	5	5	5
Length(L) mm	35.5	35.5	35.5	35.5	35.5	41.5	41.5	41.5	41.5	47.5	47.5	47.5
No-load speed r/min	1000	800	285	210	148	78	56	40	29	21	15	- 11
Rated speed r/min	800	640	228	168	118	63	45	32	23	17	12	8
Rated torque kg.cm	0.3	0.4	1.0	1.4	1,9	3,3	4.6	6.5	9.0	10	10	10
Maxpermissible load in a short lime k.gcm	5	5	10	10	10	20	20	20	20	30	30	30
Direction of rotation	CCW	CCW	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW	CW
36JX10K/3540-12	50											
Reduction ratio	4	5	14	19	27	51	71	100	139	189	264	369
Number of gear trains	2	2	3	3	3	4	4	4	4	5	5	5
Length(L) mm	35.5	35.5	35.5	35.5	35.5	41.5	41.5	41.5	41.5	47.5	47.5	47.5
No-load speed r/min	1250	1000	357	263	189	98	70	50	36	26	19	13
Rated speed r/min	1075	860	307	226	159	84	60	43	31	23	16	11
Rated torque kg.cm	0.2	0.3	0.8	1.1	1.5	2.6	3.7	5.2	7.2	8.2	10	10
Maxpermissible load in a short lime kg.cm	5	5	10	10	10	20	20	20	20	30	30	30
Direction of rotation	CCW	CCW	CW	CW	CW	CCW	CCW	CCW	CCW	CW	CW	CW

# 36JX10K/3650 Dimensions





# Motor Technical Data

TYPE	Rated voltage	No-load speed	No-load current	Rated speed	Rated torque	Output power	Rated current	Stall torque	Stall current
	VDC	r/min	mA	r/min	g.cm	W	A	g.cm	A
3650-2430	24	3000	80	2500	100	2.5	0.30	600	1.4
3650-2436	24	3600	100	3000	110	3.4	0.40	580	1.7
3650-2442	24	4200	120	3300	120	4	0.60	520	1.6

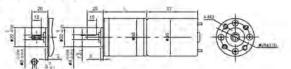
# Gearmotor Technical Data

36JX10K/3650-2430

Reduction ratio	4	5	14	19	27	51	71	100	139	189	264	369
Number of gear trains	2	2	3	3	3	4	4	4	4	5	5	5
Length(L) mm	35.5	35.5	35.5	35.5	35.5	41.5	41.5	41.5	41.5	47.5	47.5	47.5
No-load speed r/min	750	600	214	157	111	59	42	30	21	16	11	8
Rated speed r/min	625	500	178	131	92	49	35	25	18	13	9	7
Rated torque kg.cm	0.3	0.4	1.0	1.3	1.9	3.6	4.6	6.5	9.0	10	10	10
Max.permissible load in a short time kg.cm	5	5	10	10	10	20	20	20	20	30	30	30
Direction of rotation	CCW	CCW	CW	CW	CW	CCW	CCV	v ccw	CCW	CW	CW	CW
36JX10K/3650-2436					-	-	6 - F	1.1		-		1
Reduction ratio	4	5	14	4 1	9	27	51	71	100	139	189	264
Number of gear trains	2	2	3		3	3	4	4	4	4	5	5
Length(L) mm	35.5	35.5	35.	.5 35	5 3	35.5	41.5	41.5	41.5	41.5	47.5	47.5
No-load speed r/min	900	720	25	7 11	39	133	70	50	36	25	19	13
Rated speed r/min	750	600	21	4 13	57	111	59	42	30	21	16	11
Rated torque kg.cm	0.3	0.4	1.	1 1	.5	2.1	3.6	5.0	7.1	9.9	10	10
Max permissible load in a short time kg.cm	5	5	10	0 1	0	10	20	20	20	20	30	30
Direction of rotation	CCW	CCW	CV	N C	w	CW	CCW	CCW	CCW	CCW	CW	CW
36JX10K/3650-2442	i i		100			-	· · · · · ·		-		1	· · · · ·
Reduction ratio	4	5	14	4 1	9	27	51	71	100	139	189	264
Number of gear trains	2	2	3		3	3	4	4	4	4	5	5
Length(L) mm	35.5	35.5	35.	.5 35	5 3	5.5	41.5	41.5	41.5	41.5	47.5	47.5
No-load speed r/min	1050	840	30	0 2	21	155	82	59	42	30	22	16
Rated speed r/min	825	660	23	5 1	73	122	64	46	33	23	17	12
Rated torque kg.cm	0.4	0.5	1.	2 1	.6	2.3	3.9	5.5	7.8	10	10	10
Naxpermissible load in a short time kg.cm	5	5	10	0 1	0	10	20	20	20	20	30	30
Direction of rotation	CCW	CCW	CV	NC	W	CW	CCW	CCW	CCW	CCW	CW	CW

# 36JX10K/3657

# Dimensions



# Motor Technical Data

TYPE	Rated voltage VDC	No-load speed r/min	No-load current mA	Rated speed r/min	Rated torque g.cm	Output power W	Rated current mA	Stall torque g.cm	Stall current A
3657-2430	24	3000	90	2500	150	4	0.3	900	1.5
3657-2436	24	3600	120	3000	170	5	0.5	890	2.0
3657-2442	24	4200	150	3650	185	7	1	1380	2.5

# Gearmotor Technical Data

36JX10K/3657-2430

Reduction ratio		4	5	14	19	27	51	71	100	139	189
Number of gear trai	ins	2	2	3	3	3	4	4	4	4	5
Length(L)	mm	35.5	35.5	35.5	35.5	35.5	41.5	6 41.5	41.5	41.5	41.5
No-load speed	r/min	750	600	214	157	111	59	42	30	21	16
Rated speed	r/min	625	500	178	131	92	49	35	25	18	13
Rated torque	kg.cm	0.5	0.6	1.4	2.0	2.9	4.9	6.9	9.7	10	10
Max.permissible load in a sho	rt lime kg.cm	5	5	10	10	10	20	20	20	20	30
Direction of rotation	· · · · · ·	CCW	CCW	CW	CW	CW	CCV	V CCW	CCW	CCW	CW
36JX10K/3657	-2436									-	
Reduction ratio		4	5	- 1	4	19	27	51	71	100	139
Number of gear tra	ins	2	2	3	3	3	3	4	4	4	4
Length(L)	mm	35.5	35.5	5 35	5.5 3	5.5	35.5	41.5	41.5	41.5	41.5
No-load speed	r/min	900	720	25	57 1	89	133	70	50	36	25
Rated speed	r/min	750	600	2	14 1	57	111	59	42	30	22
Rated torque	kg.cm	0.5	0.7	1	.7 2	2.3	3.3	5.6	7.8	10	10
Max.permissible load in a sho	rt time kg.cm	5	5	1	0	10	10	20	20	20	20
Direction of rotation	-	CCM	V CCV	V C	w	W	CW	CCW	CCW	CCW	CCM
36JX10K/3657	-2442		22.7.7			100				1	-
Reduction ratio		4	5	1	4	19	27	51	71	100	139
Number of gear tra	ins	2	2		3	3	3	4	4	4	4
Length(L)	mm	35.5	35.5	5 35	5.5 3	5.5	35.5	41.5	41.5	41.5	41.5
No-load speed	r/min	1050	840	) 30	00 5	21	155	82	59	42	30
Rated speed	r/min	912	730	26	60 1	92	135	71	51	36	26
Rated torque	kg.cm	0.6	0.7	1	.8 2	2.5	3.6	6.1	8.5	10	10
Max.permissible load in a sho	nt lime kg.cm	5	5	1	0	10	10	20	20	20	20
Direction of rotation		CCV	V CCV	VC	w	w	CW	CCW	CCW	CCW	CCM



### Introduction

Dimensions

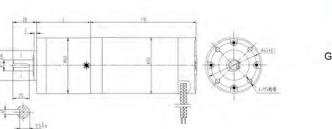
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- Dia 60mm Planetary Gear Motor Rated Torque 300kg.cm (29Nm)
   Motor power cable from rear.
   Dia 56mm Planetary available (56JX300K)

PM DC PLANETARY GEARMOTOR



### **Gearmotor Order Code**



60JX300K x G12 / 60105-24x0 Gear ratio Motor type (1 or 2) Gearbox type Shaft diameter

### **Motor Technical Data**

TYPE	Rated voltage VDC	No-load speed r/min	No-load current A	Rated speed r/min	Rated torque g.cm	Output power W	Rated current A	Stall torque kg.cm	Stall current A
1) 60105-2420	24	2000	0.32	1550	1250	20	1.6	5.5	6
2) 60105-2430	24	3000	0.4	2500	1200	30	2.2	7.2	10.8

### Gearmotor Technical Data ٠

### 1) With Motor Type - 60105-2420

Reduction ratio		3.6	4.25	13	15	18	47	55	65	76	168	198	234	276	326
Number of gear stages		1	1	2	2	2	3	3	3	3	4	4	4	4	4
Length(L)	mm	46.0	46.0	46.0	46.0	46.0	57.5	57.5	57.5	57.5	77.0	77.0	77.0	77.0	77.0
No-load speed	r/min	555	470	154	133	111	42	36	30	26	12	10	8.5	7.2	6.1
Rated speed	r/min	430	365	119	103	86	33	28	24	20	9.2	7.8	6.6	5.6	4.7
Rated torque	kg. cm	4.3	5.0	14	17	20	50	58	73	81	170	200	237	279	300
Peak torque Max. permissible short time	kg. cm	30	30	100	100	100	300	300	300	300	600	600	600	600	600

### 2) With Motor Type - 60105-2430

Reduction ratio		3.6	4.25	13	15	18	47	55	65	76	168	198	234	276	326
Number of gear stage	es	1	1	2	2	2	3	3	3	3	4	4	4	4	4
Length(L)	mm	46.0	46.0	46.0	46.0	46.0	57.5	57.5	57.5	57.5	77.0	77.0	77.0	77.0	77.0
No-load speed	r/min	833	706	230	200	167	64	54	46	39	18	15	13	11	9.2
Rated speed	r/min	694	588	192	167	139	53	45	38	33	15	12	10	9.0	7.7
Rated torque	kg. cm	4.1	4.8	14	16	19	48	56	66	77	163	192	227	268	300
Peak torque Max. permissible sho	kg. cm Int time	kg. cm	30	100	100	100	300	300	300	300	600	600	600	600	600

# **Other Motion Tech Products**



### Precision in the Extreme



















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