

 LECTRICAL
MOTION
of
INDIA





VISION :

As the brand name suggests, our vision is to provide flagship solutions to power and transmission problems by our varied range of products.



CORE VALUES :

Iconic Gears is a perfect blend of *innovation, engineering, enthusiasm and experience*. We abide by our core values to provide maximum satisfaction to our customers.



RICH EXPERIENCE :

Backed up by more than 51 years of experience of its parent company Associated Engineers, it is pretty well positioned to understand the problems of mechanical world and provide solutions for the same. The next generation who have graduated from prestigious institutions like IITs and NITs are ready to take the legacy ahead.



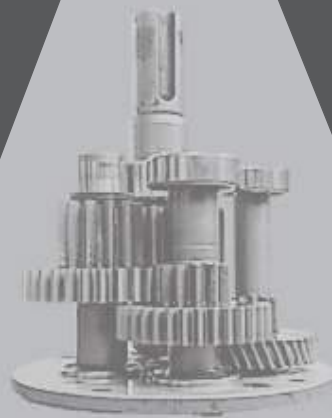
MANUFACTURING FACILITIES :

The plant which is spread over 9000 sq ft wide area is equipped with state of art facilities like **5 Axis CNC** hobbing machine, **CNC lathe** machine, **CNC cylindrical grinding** machine, **Mori Seiki** make VMC machine, **Schenck** make balancing machine to cater needs of our customer. We have complete in house manufacturing, R&D and testing facility to ensure complete quality control. We ensure every single machining process are carried out in house with continuous inspection using our various inspection machines.



QUALITY CONTROL :

Our in house quality control unit makes us competent to examine our product assortment on pre-defined parameters. Products offered by us are carefully checked by our quality control inspectors using latest instruments and tools such as **CMM**, **CNC Gear Tester**, **Micro Vickers Hardness Tester**, **Metallurgical Microscope** while motor windings are tested on **Automatic Sequential Analyzer**.



Iconic Gears have developed new range of induction geared motors ranging from 25 W to 200 W.

It's compact and robust design enables space saving and easy installation thereby providing easy replacement of current heavy products in market.

25W models is self cooled while a cooling fan is provided for further range of products.

Gear box are having a combination of spur and helical gears. They are having ratios ranging from 3:1 and 200:1.

All the gearbox are grease lubricated.

All the motors are available for single phase and three phase supply as mentioned in catalogue.

INDUCTION GEARED MOTOR

MOTOR NOMENCLATURE

MOTOR OUTPUT SHAFT TYPE

G : GEAR TYPE
S : SOLID TYPE
D : D TYPE
K : KEYWAY TYPE

OUTPUT POWER

25 : 25 W
40 : 40 W
60 : 60 W
90 : 90 W
120 : 120 W
200 : 200 W

ATTACHING GEAR HEAD

G : GENERAL TYPE
N : WITHOUT GEAR HEAD

CONNECTION TYPE

T : TERMINAL BOX TYPE
L : LEAD WIRE TYPE

9

G

A

40

F

G

4

T

MOTOR FRAME SIZE

8 : 80 mm
9 : 90 mm
10 : 104 mm

PHASE & VOLTAGE

A : SINGLE PHASE 230 V
B : THREE PHASE 230 V
C : THREE PHASE 415 V

FAN TYPE

F : GENERAL FAN
NO MARK : NO FAN

NO. OF POLES

2 : 2600 RPM
4 : 1300 RPM

GEAR HEAD NOMENCLATURE

GEAR OUTPUT SHAFT TYPE

S : SOLID TYPE
D : D TYPE
K : KEYWAY TYPE

GEAR RATIO

25 : 1/25

9

S

G

25

GEAR FRAME SIZE

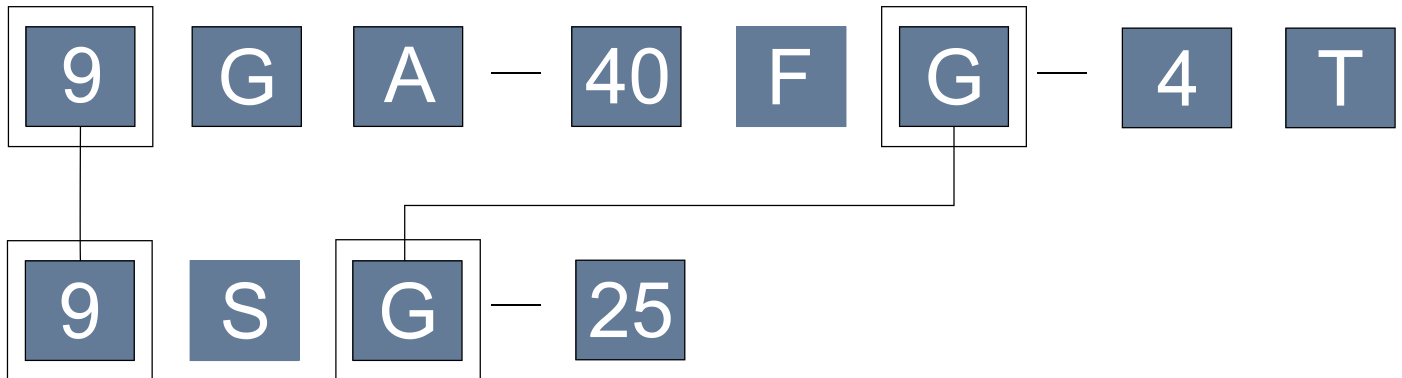
8 : 80 mm
9 : 90 mm
10 : 104 mm

GEAR HEAD TYPE

G : GENERAL TYPE
W : WORM TYPE

• ASSEMBLY NOMENCLATURE

MOTOR

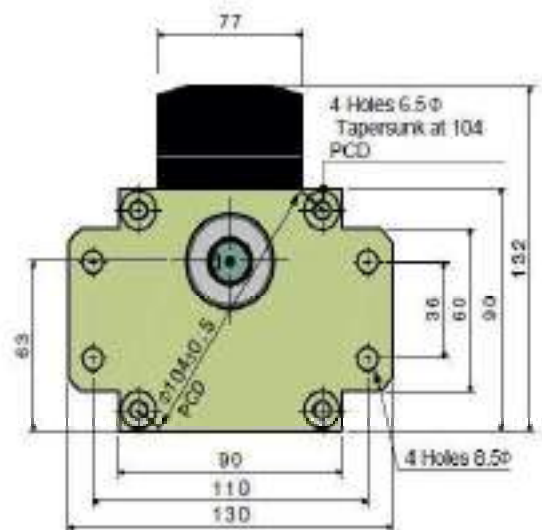
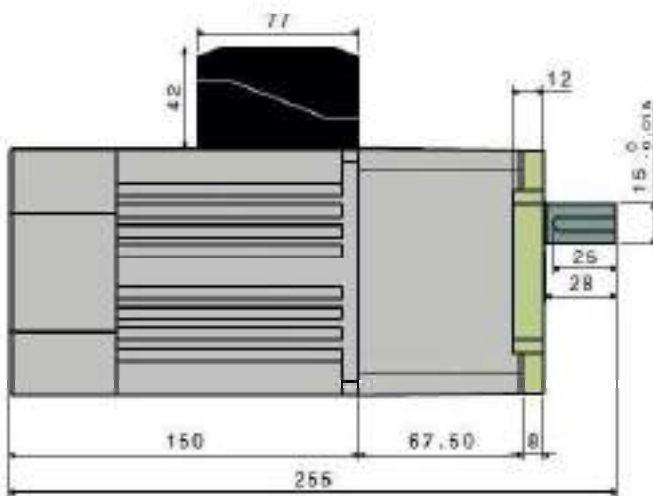


GEAR HEAD

As shown in above scheme motor and gear box with same frame size and type can be assembled.

• ACCESSORIES

► FLANGE MOUNTING BRACKET (for 90 mm frame size)

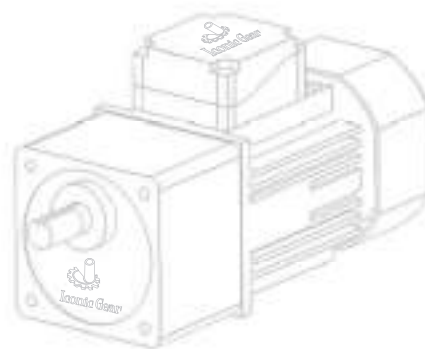


INDUCTION MOTOR

25 W

80 mm

Motor specification



Model		Output	Voltage	Freq	Current	Starting Torque		Rated Torque		Rated Speed	Capacitor
Lead Wire	Terminal box	W	VAC	Hz	A	Kgf. cm	N.m	Kgf. cm	N.m	RPM	μF
8()A-25G-[]L	8()A-25G-[]T	25	Single phase 230 V	50	0.27	1.53	0.15	2.14	0.21	1300	2
				60	0.25	1.22	0.12	1.53	0.15	1600	
8()B-25G-[]L	8()B-25G-[]T		Three phase 230 V	50	0.24	2.55	0.25	2.04	0.20	1300	-
				60	0.23	2.04	0.20	1.63	0.16	1600	
8()C-25G-[]L	8()C-25G-[]T		Three phase 415 V	50	0.14	2.55	0.25	2.04	0.20	1300	-
				60	0.13	2.04	0.20	1.63	0.16	1600	

Note:

- Actual motor speed is 2-20% less depending upon motor load.
- Suitable for continuous 24 hours operation.
- Select motor output shaft type to fill brackets () in model no. :
G - Gear type S - Solid type D - D type K - Keyway type ..

Gear motor Torque Table (N.m)

Model No. : 8(S/D/K)G - []

Speed	50 Hz	433	361	260	217	173	130	108	87	72	65	52	43	36	33	26	22	17	14	13	11	9	7
	60 Hz	533	444	320	267	213	160	133	107	89	80	64	53	44	40	32	27	21	18	16	13	11	8
Gear Ratio	Nominal	3	3.6	5	6	7.5	10	12	15	18	20	25	30	36	40	50	60	75	90	100	120	150	200
	Absolute	3.04	3.49	5.23	5.98	7.86	9.78	12.37	14.67	17.68	19.56	25.54	29.67	34.78	41.25	49.71	59.47	78.27	90.36	97.31	123.07	145.96	194.62
Torque	50 Hz	0.5	0.6	0.85	1	1.25	1.7	1.95	2.35	2.8	3.1	3.9	4.7	5.65	6.25	6.9	8	8	8	8	8	8	8
	60 Hz	0.42	0.5	0.71	0.83	1.04	1.42	1.63	1.96	2.33	2.58	3.25	3.92	4.71	5.21	5.75	6.88	8	8	8	8	8	8
Direction		↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↓	↑↓	↑↓	↑↓	↑↓	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑

Note:

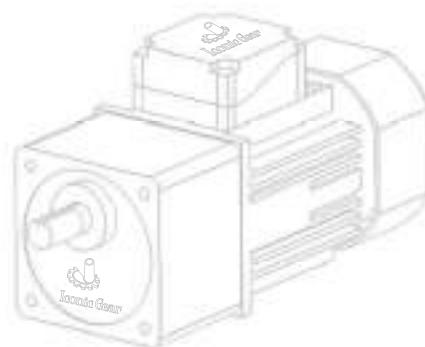
- Select nominal gear ratio from above table to fill square brackets [] in model no.
- Select gearhead output shaft type to fill brackets () in model no.:
- S - Solid type D - D type K - Keyway type
- The speed is calculated by dividing motor's synchronous speed i.e. 1300 rpm by nominal gear ratio.
- To calculate exact speed divide rated speed of motor by absolute gear ratio.

Direction: ↑↑ Same as motor shaft
↑↓ Reverse direction

INDUCTION MOTOR

40 W

 90 mm

 Motor specification


Model		Outp ut	Voltage	Fre	Current	Starting Torque		Rated Torque		Rated Speed	Capac itor
Lead Wire	Terminal box	W	VAC	Hz	A	Kgf. cm	N.m	Kgf. cm	N.m	RPM	μF
9()A-40G-[]L	9()A-40G-[]T	40	Single phase 230 V	50	0.40	2.45	0.24	3.36	0.33	1300	2.0
				60	0.37	1.94	0.19	2.75	0.27	1600	
9()B-40G-[]L	9()B-40G-[]T		Three phase 230 V	50	0.35	4.18	0.41	3.26	0.32	1300	-
				60	0.32	3.47	0.34	2.65	0.26	1600	
9()C-40G-[]L	9()C-40G-[]T		Three phase 415 V	50	0.21	4.18	0.41	3.26	0.32	1300	-
				60	0.19	3.47	0.34	2.65	0.26	1600	

Note: • Actual motor speed is 2-20% less depending upon motor load.
 • Suitable for continuous 24 hours operation.
 • Select motor output shaft type to fill brackets () in model no. :
 G - Gear type S - Solid type D - D type K - Keyway type ..

Gear motor Torque Table (N.m)

Model No. : 9(S/D/K)G - []

Speed	50 Hz	433	361	260	217	173	130	108	87	72	65	52	43	36	33	26	22	17	14	13	11	9	7
	60 Hz	533	444	320	267	213	160	133	107	89	80	64	53	44	40	32	27	21	18	16	13	11	8
Gear Ratio	Nominal	3	3.6	5	6	7.5	10	12	15	18	20	25	30	36	40	50	60	75	90	100	120	150	200
	Absolute	3.04	3.49	5.23	5.98	7.86	9.78	12.37	14.67	17.68	19.56	25.54	29.67	34.78	41.25	49.71	59.47	78.27	90.36	97.31	123.07	145.96	194.62
Torque	50 Hz	0.8	0.95	1.30	1.55	1.95	2.60	3.15	3.85	4.65	5.15	5.75	6.90	8.30	9.20	11.5	13.8	17.2	20	20	20	20	20
	60 Hz	0.66	0.8	1.08	1.30	1.63	2.17	2.63	3.21	3.88	4.29	4.79	5.75	6.92	7.67	9.58	11.5	14.3	19.1	20	20	20	20
Direction		↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↓	↑↓	↑↓	↑↓	↑↓	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑

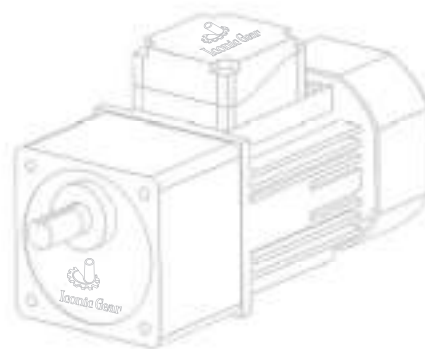
Note: • Select nominal gear ratio from above table to fill square brackets [] in model no. Direction: ↑↑ Same as motor shaft
 • Select gearhead output shaft type to fill brackets () in model no.: ↑↓ Reverse direction
 S - Solid type D - D type K - Keyway type
 The speed is calculated by dividing motor's synchronous speed i.e. 1300 rpm by nominal gear ratio.
 • To calculate exact speed divide rated speed of motor by absolute gear ratio.

INDUCTION MOTOR

60 W

90 mm

Motor specification



Model		Output	Voltage	Fre	Current	Starting Torque		Rated Torque		Rated Speed	Capacitor
Lead Wire	Terminal box	W	VAC	Hz	A	Kgf. cm	N.m	Kgf. cm	N.m	RPM	μF
9()A-60G-[]L	9()A-60G-[]T	60	Single phase 230 V	50	0.55	3.67	0.36	5.10	0.50	1300	3
				60	0.50	2.96	0.29	4.18	0.41	1600	
9()B-60G-[]L	9()B-60G-[]T		Three phase 230 V	50	0.54	6.11	0.60	4.90	0.48	1300	-
				60	0.48	5.10	0.50	3.87	0.38	1600	
9()C-60G-[]L	9()C-60G-[]T		Three phase 415 V	50	0.30	6.11	0.60	4.90	0.48	1300	-
				60	0.27	5.10	0.50	3.87	0.38	1600	

Note:

- Actual motor speed is 2-20% less depending upon motor load.
- Suitable for continuous 24 hours operation.
- Select motor output shaft type to fill brackets () in model no. :
G - Gear type S - Solid type D - D type K - Keyway type ..

Gear motor Torque Table (N.m)

Model No. : 9(S/D/K)G - []

Speed	50 Hz	433	361	260	217	173	130	108	87	72	65	52	43	36	33	26	22	17	14	13	11	9	7
	60 Hz	533	444	320	267	213	160	133	107	89	80	64	53	44	40	32	27	21	18	16	13	11	8
Gear Ratio	Nominal	3	3.6	5	6	7.5	10	12	15	18	20	25	30	36	40	50	60	75	90	100	120	150	200
	Absolute	3.04	3.49	5.23	5.98	7.86	9.78	12.37	14.67	17.68	19.56	25.54	29.67	34.78	41.25	49.71	59.47	78.27	90.36	97.31	123.07	145.96	194.62
Torque	50 Hz	1.20	1.45	2	2.40	3.0	4.0	4.3	5.25	6.30	7	8.3	9.95	11.9	13.2	16.5	19.8	20	20	20	20	20	20
	60 Hz	1	1.21	1.66	2	2.5	3.3	3.6	4.4	5.25	5.83	6.9	8.3	9.9	11	13.8	16.5	20	20	20	20	20	20
Direction		↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↓	↑↓	↑↓	↑↓	↑↓	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑

Note:

- Select nominal gear ratio from above table to fill square brackets [] in model no.
- Select gearhead output shaft type to fill brackets () in model no.:
- S - Solid type D - D type K - Keyway type
- The speed is calculated by dividing motor's synchronous speed i.e.1300 rpm by nominal gear ratio.
- To calculate exact speed divide rated speed of motor by absolute gear ratio.

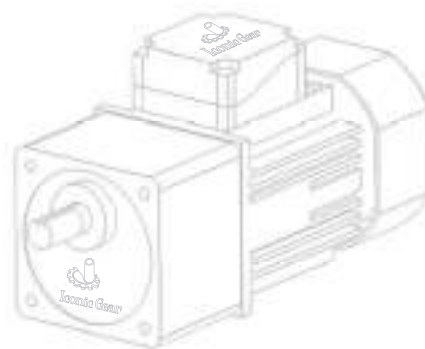
Direction: ↑↑ Same as motor shaft
↑↓ Reverse direction

INDUCTION MOTOR

90 W

90 mm

Motor specification



Model		Outp ut	Voltage	Fre	Current	Starting Torque		Rated Torque		Rated Speed	Capac itor
Lead Wire	Terminal box	W	VAC	Hz	A	Kgf. cm	N.m	Kgf. cm	N.m	RPM	μF
9()A-25G-[]L	9()A-90G-[]T	90	Single phase 230 V	50	0.75	5.60	0.55	7.65	0.75	1300	4.0
				60	0.67	4.59	0.45	6.11	0.60	1600	
9()B-25G-[]L	9()B-90G-[]T		Three phase 230 V	50	0.70	9.69	0.95	7.65	0.75	1300	-
				60	0.63	7.65	0.75	6.11	0.60	1600	
9()C-25G-[]L	9()C-90G-[]T		Three phase 415 V	50	0.55	9.69	0.95	7.65	0.75	1300	-
				60	0.50	7.65	0.75	6.11	0.60	1600	

Note: • Actual motor speed is 2-20% less depending upon motor load.
 • Suitable for continuous 24 hours operation.
 • Select motor output shaft type to fill brackets () in model no. :
 G - Gear type S - Solid type D - D type K - Keyway type ..

Gear motor Torque Table (N.m)

Model No. : 8(S/D/K)G - []

Speed	50 Hz	433	361	260	217	173	130	108	87	72	65	52	43	36	33	26	22	17	14	13	11	9	7
	60 Hz	533	444	320	267	213	160	133	107	89	80	64	53	44	40	32	27	21	18	16	13	11	8
Gear Ratio	Nominal	3	3.6	5	6	7.5	10	12	15	18	20	25	30	36	40	50	60	75	90	100	120	150	200
	Absolute	3.04	3.49	5.23	5.98	7.86	9.78	12.37	14.67	17.68	19.56	25.54	29.67	34.78	41.25	49.71	59.47	78.27	90.36	97.31	123.07	145.96	194.62
Torque	50 Hz	1.8	2.15	3.0	3.6	4.5	5.3	6.6	7.95	9.55	10.6	12.1	14.5	17.4	19.3	20	20	20	20	20	20	20	20
	60 Hz	1.5	1.8	2.5	3	3.75	4.42	5.5	6.63	7.96	8.83	10.1	12.1	14.5	16.1	20	20	20	20	20	20	20	20
Direction		↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↓	↑↓	↑↓	↑↓	↑↓	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑

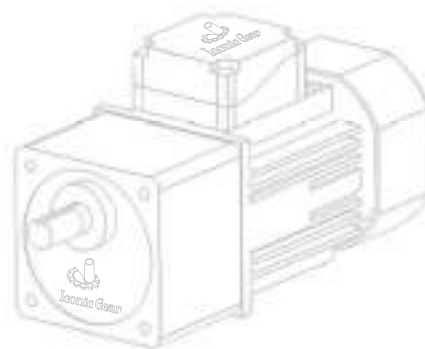
Note: • Select nominal gear ratio from above table to fill square brackets [] in model no. Direction: ↑↑ Same as motor shaft
 • Select gearhead output shaft type to fill brackets () in model no.: ↑↓ Reverse direction
 S - Solid type D - D type K - Keyway type
 The speed is calculated by dividing motor's synchronous speed i.e. 1300 rpm by nominal gear ratio.
 • To calculate exact speed divide rated speed of motor by absolute gear ratio.

INDUCTION MOTOR

120 W

90 mm

Motor specification



Model		Outp ut	Voltage	Fre	Current	Starting Torque		Rated Torque		Rated Speed	Capac itor	
Lead Wire	Terminal box	W	VAC	Hz	A	Kgf. cm	N.m	Kgf. cm	N.m	RPM	μF	
9()A-120G-[]L	9()A-120G-[]T	120	Single phase 230 V	50	1.00	7.65	0.75	8.67	0.85	1300	6.0	
				60	0.9	6.11	0.6	7.14	0.7	1600		
9()B-25G-[]L	9()B-120G-[]T		Three phase 230 V	50	0.95	12.25	1.2	9.7	0.95	1300	-	
				60	0.87	10.7	1.05	8.15	0.80	1600		
9()C-210G-[]L	9()C-120G-[]T		Three phase 415 V	50	0.68	12.25	1.2	9.7	0.95	1300	-	
				60	0.62	10.7	1.05	8.15	0.80	1600		

Note: • Actual motor speed is 2-20% less depending upon motor load.
 • Suitable for continuous 24 hours operation.
 • Select motor output shaft type to fill brackets () in model no. :
 G - Gear type S - Solid type D - D type K - Keyway type ..

Gear motor Torque Table (N.m)

Model No. : 9(S/D/K)G - []

Speed	50 Hz	433	361	260	217	173	130	108	87	72	65	52	43	36	33	26	22	17	14	13	11	9	7
	60 Hz	533	444	320	267	213	160	133	107	89	80	64	53	44	40	32	27	21	18	16	13	11	8
Gear Ratio	Nominal	3	3.6	5	6	7.5	10	12	15	18	20	25	30	36	40	50	60	75	90	100	120	150	200
	Absolute	3.04	3.49	5.23	5.98	7.86	9.78	12.37	14.67	17.68	19.56	25.54	29.67	34.78	41.25	49.71	59.47	78.27	90.36	97.31	123.07	145.96	194.62
Torque	50 Hz	2.3	2.7	3.8	4.5	5.65	6.9	8.50	10.3	12.4	13.8	15.5	18.5	20	20	20	20	20	20	20	20	20	20
	60 Hz	1.92	2.25	3.17	3.75	4.71	5.75	7.1	8.60	10.3	11.5	12.9	15.4	18.5	20	20	20	20	20	20	20	20	20
Direction		↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↓	↑↓	↑↓	↑↓	↑↓	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑

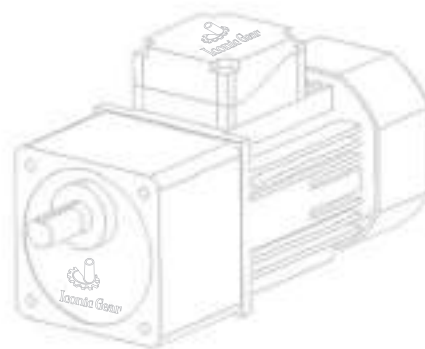
Note: • Select nominal gear ratio from above table to fill square brackets [] in model no. Direction: ↑↑ Same as motor shaft
 • Select gearhead output shaft type to fill brackets () in model no.: ↑↓ Reverse direction
 S - Solid type D - D type K - Keyway type
 The speed is calculated by dividing motor's synchronous speed i.e.1300 rpm by nominal gear ratio.
 • To calculate exact speed divide rated speed of motor by absolute gear ratio.

INDUCTION MOTOR

200 W

104 mm

Motor specification



Model		Output	Voltage	Fre	Current	Starting Torque		Rated Torque		Rated Speed	Capacitor
Lead Wire	Terminal box	W	VAC	Hz	A	Kgf. cm	N.m	Kgf. cm	N.m	RPM	μF
10()A-200G-[]L	10()A-200G-[]T	200	Single phase 230 V	50	1.8	12.21	1.2	17.3	1.7	1300	12.0
				60	1.7	9.67	0.95	16.8	1.65	1600	
10()B-200G-[]L	10()B-200G-[]T		Three phase 230 V	50	1.80	20.4	2	15.8	1.55	1300	-
				60	1.62	17.3	1.7	12.7	1.25	1600	
10()C-200G-[]L	10()C-200G-[]T		Three phase 415 V	50	1.1	20.4	2	15.8	1.55	1300	-
				60	1.0	17.3	1.7	12.7	1.25	1600	

Note: • Actual motor speed is 2-20% less depending upon motor load.
 • Suitable for continuous 24 hours operation.
 • Select motor output shaft type to fill brackets () in model no. :
 G - Gear type S - Solid type D - D type K - Keyway type ..

Gear motor Torque Table(N.m)

Model No. : 10(S/D/K)G - []

Speed	50 Hz	433	361	260	217	173	130	108	87	72	65	52	43	36	33	26	22	17	14	13	11	9	7
	60 Hz	533	444	320	267	213	160	133	107	89	80	64	53	44	40	32	27	21	18	16	13	11	8
Gear Ratio	Nominal	3	3.6	5	6	7.5	10	12	15	18	20	25	30	36	40	50	60	75	90	100	120	150	200
	Absolute	3.04	3.49	5.23	5.98	7.86	9.78	12.37	14.67	17.68	19.56	25.54	29.67	34.78	41.25	49.71	59.47	78.27	90.36	97.31	123.07	145.96	194.62
Torque	50 Hz	3.46	4.15	5.77	6.90	8.64	11.6	14.3	17.2	18.5	20.6	25.8	30.8	37	41.2	44	44	44	44	44	44	44	44
	60 Hz	2.88	3.46	4.81	5.75	7.2	9.67	11.9	14.3	15.4	17.1	21.5	25.7	30.8	34.3	42.9	44	44	44	44	44	44	44
Direction		↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↓	↑↓	↑↓	↑↓	↑↓	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑	↑↑

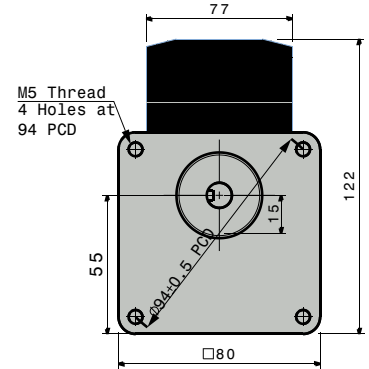
Note: • Select nominal gear ratio from above table to fill square brackets [] in model no. Direction: ↑↑ Same as motor shaft
 • Select gearhead output shaft type to fill brackets () in model no.: ↑↓ Reverse direction
 S - Solid type D - D type K - Keyway type
 The speed is calculated by dividing motor's synchronous speed i.e.1300 rpm by nominal gear ratio.
 • To calculate exact speed divide rated speed of motor by absolute gear ratio.

GEARED MOTOR

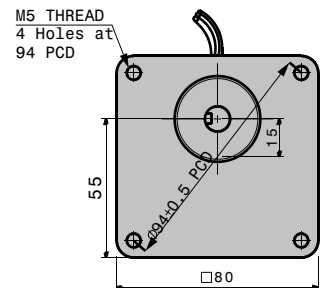
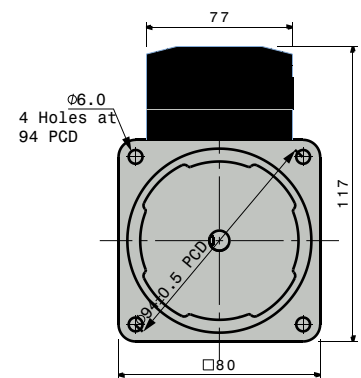
MOTOR ONLY

GEARED MOTOR

LEAD WIRE TYPE



GEARHEAD MODEL : 8□G-□



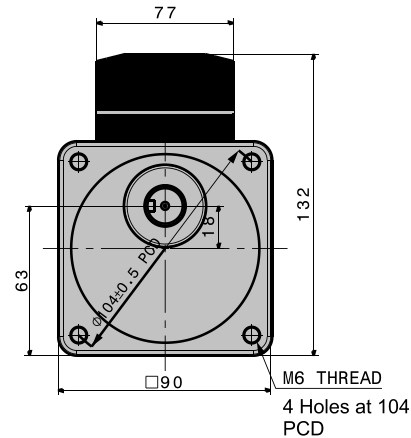
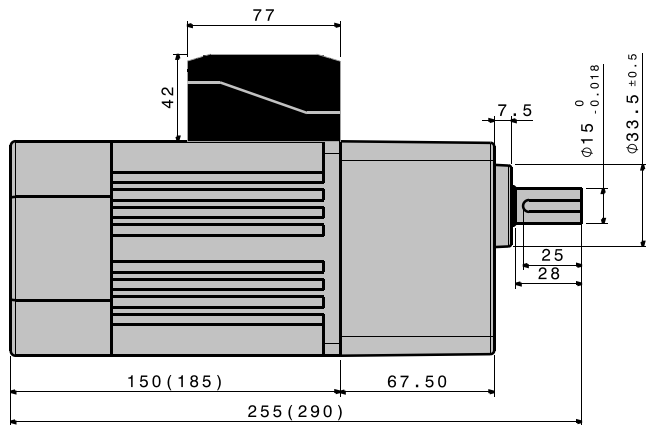
MOTOR OUTPUT	
Model	Shaft
Gear Type	 11
Solid type	 30 0.8 0 +0.015 -0.015
D Type	 30 25 0.8 0 +0.1 -0.1 0 +0.015 -0.015
Keyway Type	 30 25 0.8 0 +0.015 -0.015

Model	Shaft
Solid Type	
D Type	
Keyway Type	

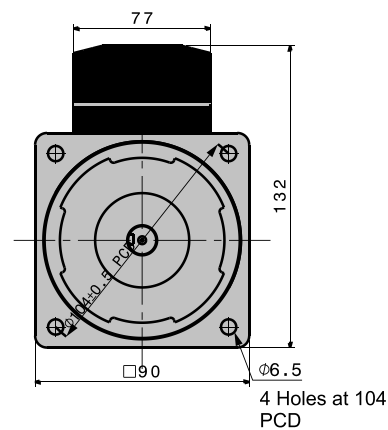
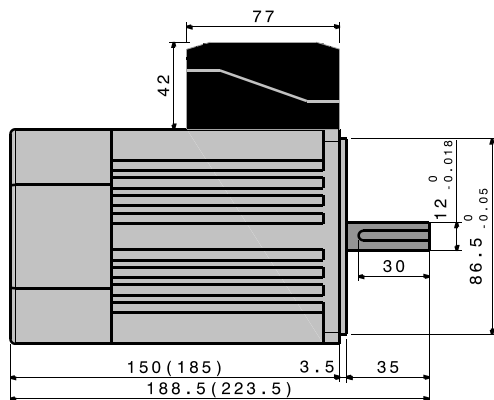
90 FRAME GA DRAWING - 40W,60W,90W,120W

● TERMINAL BOX TYPE

GEARED MOTOR



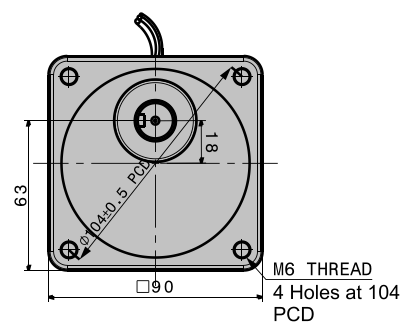
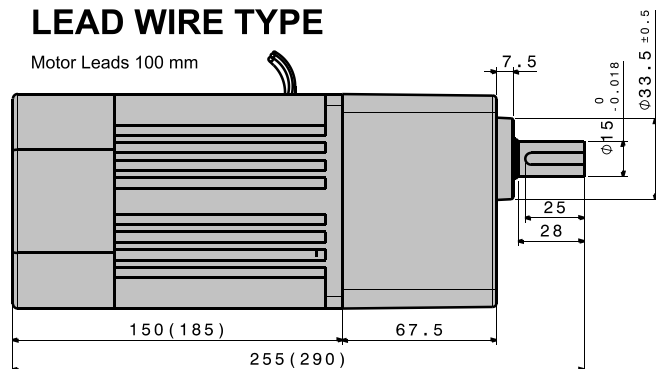
MOTOR ONLY



● LEAD WIRE TYPE

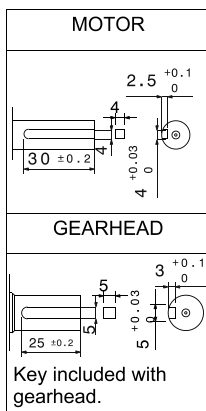
Motor Leads 100 mm

GEARED MOTOR



NOTE : DIMENSIONS SHOWN IN BRACKET ARE FOR BRAKE MOTOR

KEY SPEC



MOTOR OUTPUT

Model	Shaft
Gear Type	 19.5
Solid type	 35
D Type	 30
Keyway Type	 30

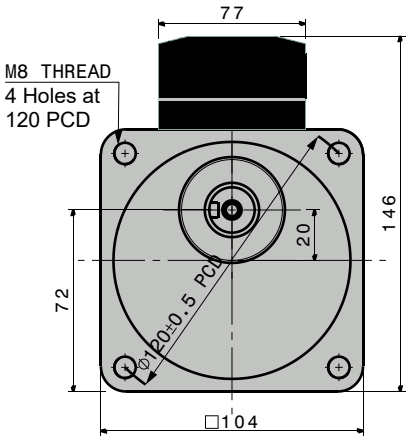
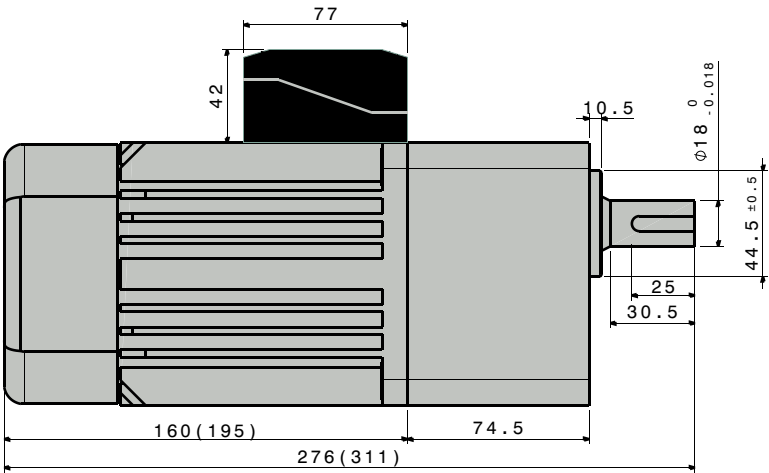
GEARHEAD OUTPUT

Model	Shaft
Solid Type	 28
D Type	 25
Keyway Type	 25

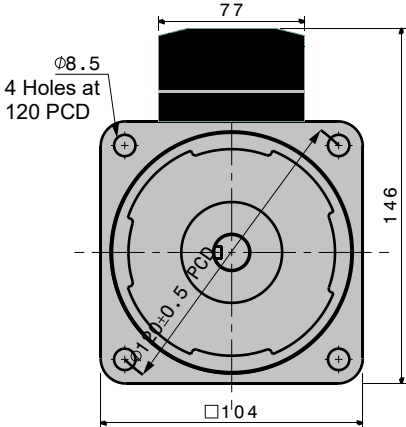
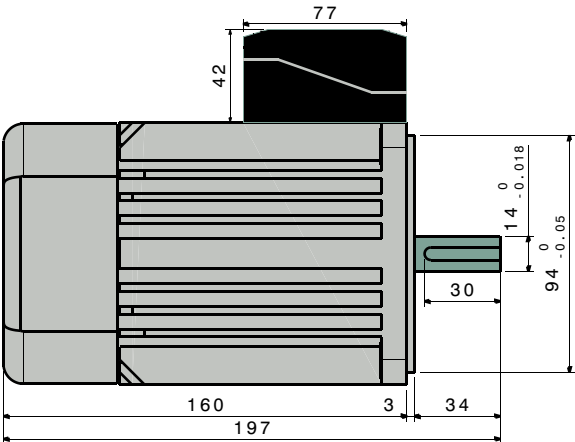
104 FRAME GA DRAWING - 200W

● TERMINAL BOX TYPE

GEARED MOTOR

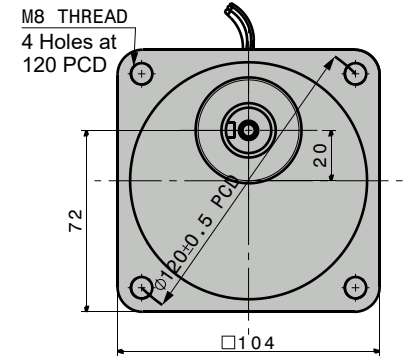
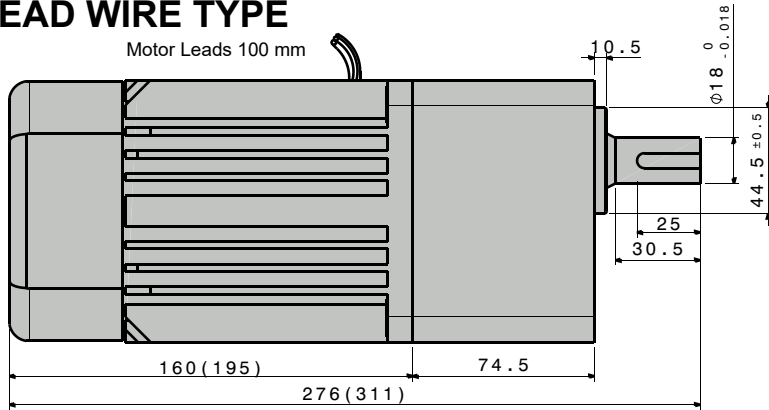


MOTOR ONLY

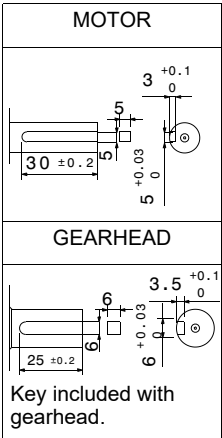


GEARED MOTOR

● LEAD WIRE TYPE



NOTE : DIMENSIONS SHOWN IN BRACKET ARE FOR BRAKE MOTOR



Model	Shaft
Gear Type	
Solid type	
D Type	
Keyway Type	

Model	Shaft
Solid Type	
D Type	
Keyway Type	