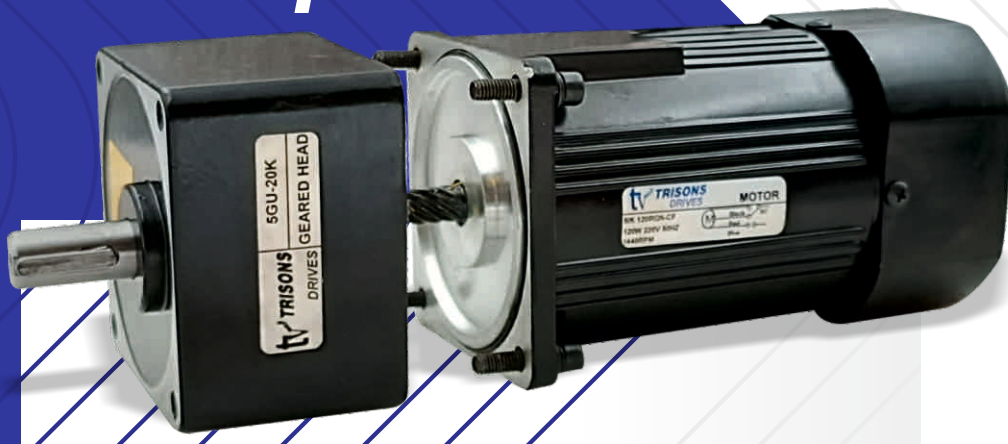


tv **TRISONS**[®] DRIVES

Transmission
Experts



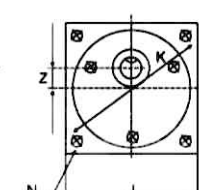
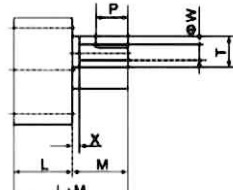
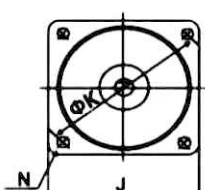
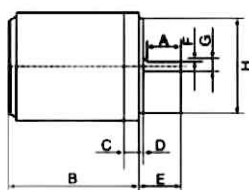
FHP Gear Motors

Trisons Drives provides most comprehensive range of Gear Boxes for over 28 years in India. Wide range of power transmission products offer by Trisons Drives enjoys the International reputation for Quality and Reliability.

Trisons Drives is specialized in R & D and production of various Worm Gear Box, Light Duty Aluminium Gear Box, Cycloidal Gear Box and Stepless Variator which are widely used in Metallurgy, Mine, Crane, Construction, Chemical Industry, Light Industry, Food Stuff, Printing, Plastic, Wood Industry and Ceramics etc. Our company always takes the idea of "Speciality, Efficiency, Steadiness and Innovation".

Trisons Drives will keep increasing technological upgrading investment to develop new products by standing at the forefront of technology we would like to provide vast uses with reliable products and perfect after sales services to create a brilliant future together.

FHP Gear Motors Dimensions



POWER (W)	A	B	C	D	E	F	G	H	J	K	M	X	N	L	P	W	T	Z	R	S
15	25	80	7	2	32	0.5	6	64	70	82	32	3	M5	43	20	10	25	15	-	-
25	25	88	7	2	32	1	7	73	80	94	35	4	M5	43	25	10	25	15	-	-
40	30	138	8	2	37	1	12	83	90	104	35	6	M6	60	25	12	35	18	50	54
60	30	138	8	2	37	1	12	83	90	104	35	6	M6	60	25	12	35	18	50	54
90	30	150	8	2	37	1	12	83	90	104	35	6	M6	60	25	15	35	18	52	54
120	30	150	8	2	37	1	12	83	90	104	35	6	M6	60	25	15	35	18	52	54
180	30	184	10	2	37	1	15	92	104	120	43	10	M8	65	25	15	40	20	55	54
250	30	184	10	2	37	1	15	92	104	120	43	10	M8	65	25	15	40	20	55	54

POWER (W)	TYPE	VOLTAGE (V)	FREQUENCY (V)	CURRENT (A)	STARTING TORQUE (K.g.cm)	RATED TORQUE (K.g.cm)	RATED SPEED (RPM)	RATED TIME	CAPACITANCE (uf)
15	31K15GN	220V/415	50	0.1	0.95	0.4	1440	Continue	1.5
25	41K25GN	220V/415	50	0.12	2.8	1.8	1440	Continue	2
40	51K40GN	220V/415	50	0.18	4.0	1.8	1440	Continue	3
60	51K60GN	220V/415	50	0.29	8.2	4.5	1440	Continue	4
90	51K90GN	220V/415	50	0.38	15.3	6.7	1440	Continue	5
120	51K120GN	220V/415	50	0.48	18	9.8	1440	Continue	6
180	61K180GN	220V/415	50	0.65	26	12	1440	Continue	8
250	61K250GN	220V/415	50	0.7	28	14	1440	Continue	10

Mounting Hole

Power Indicator

Speed Regulating Knob

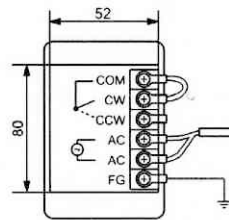
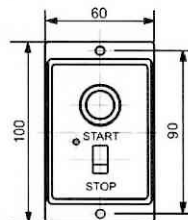
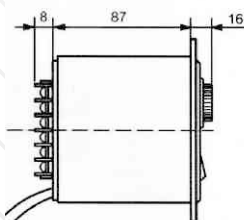
Switch

Amplitude Adjuster

Mounting Hole



Over All Dimension



Technical Specification

15W

GEARED-DOWN PARAMETER	SYNCHRONOUS SPEED		500	300	250	200	150	120	100	75	60	50	40	35	30	25	20	15	12	10	8	6
	RATIO		3	5	6	7.5	10	12.5	15	20	25	30	36	40	50	60	75	100	120	150	180	250
MAX ALLOWABLE LOAD	15 W	kg.cm N.m	2.86 0.28	4.81 0.48	5.67 0.56	7.51 0.75	9.46 0.93	11.8 1.18	14.7 1.47	17 1.67	21.5 2.15	23.5 2.35	30.6 3.01	34.1 3.34	39.27 3.92	47.1 4.7	50 4.9					
	20W	kg.cm N.m	3.52 0.35	5.80 0.58	7.56 0.75	8.75 0.87	12.6 1.24	14.5 1.24	17.15 1.71	22.6 2.23	26.1 2.61	30.4 3.04	40.8 4.01	45.5 4.4	50 4.9							

25W

GEARED-DOWN PARAMETER	SYNCHRONOUS SPEED		500	300	250	200	150	120	100	83	75	60	50	40	35	30	25	20	15	12	10	8	7	6	5		
	RATIO		3	5	6	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	100	120	150	180	200	250	300		
MAX ALLOWABLE LOAD	25 W	kg,cm	4.5	7.9	9.46	12	15.7	19	23	28.4	31.5	35	42	51.1	56.7	62	76.6	80									
		N,m	0.45	0.79	0.93	1.18	1.55	1.86	2.25	2.78	3.1	3.43	4.12	5.01	5.57	6.18	7.52	7.84									
	30W	kg,cm	5.7	8.1	11.3	14.2	18.9	23.6	28.3	34	37.8	42.5	51.1	60.2	68.1	65.7	80										
		N,m	0.56	0.8	1.1	1.39	1.85	2.32	2.78	3.34	3.7	4.17	5.01	6.01	6.68	6.5	7.84										

40W

GEARED-DOWN PARAMETER	SYNCHRONOUS SPEED		500	300	250	200	150	120	100	75	60	50	40	35	30	25	20	15	12	10	8	7	6	5	3
	RATIO		3	5	6	7.5	10	12.5	15	20	25	30	36	40	50	60	75	100	120	150	180	200	250	300	500
MAX ALLOWABLE LOAD	40 W	kg.cm	7.3	12	14.5	18	24.2	30	36	43.6	55	65.5	78	87	98	100									
		N.m																							
		kg.cm	0.72	1.8	1.43	1.77	2.4	2.94	3.53	4.28	5.0	6.24	7.7	8.57	9.64	9.81									
		N.m																							

60W

GEARED-DOWN PARAMETER	SYNCHRONOUS SPEED		500	375	300	250	200	150	120	100	75	60	50	40	35	30	25	20	15	12	10	8	7	6	5	3
	RATIO		3	4	5	6	7.5	10	12.5	15	20	25	30	36	40	50	60	75	100	120	150	180	200	250	300	500
MAX ALLOWABLE LOAD	60 W	kg.cm N.m	11	14.6	18	21.8	27	36	41	50	65	81	98	117	130	147	200									
		kg.cm N.m	1.08	1.42	1.17	2.14	2.64	3.57	4.02	4.80	6.24	8.03	9.64	11.5	12.8	14.4	19.6									

90W-120W

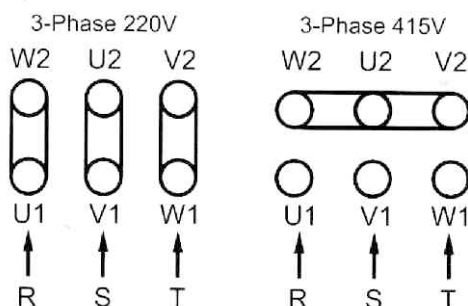
GEARED-DOWN PARAMETER	SYNCHRONOUS SPEED		500	300	250	200	150	120	100	75	60	50	45	37.5	30	25	20	15	12.5	10	8	6	5	3
	RATIO		3	5	6	7.5	10	12.5	15	20	25	30	36	40	50	60	75	100	120	150	180	250	300	500
MAX ALLOWABLE LOAD	90 W	$\frac{\text{kg}\cdot\text{cm}}{\text{N}\cdot\text{m}}$	15.7 1.54	26.5 2.6	31.5 3.1	39.5 3.86	52.5 5.15	65.7 6.44	71 6.96	94.6 9.28	118 11.6	141 13.9	170 16.7	189 18.5	200 19.6									
	120W	$\frac{\text{kg}\cdot\text{cm}}{\text{N}\cdot\text{m}}$	21.5 2.11	36 3.52	42 4.13	54 5.28	70 6.88	87.57 8.59	98 9.6	126 12.4	148 14.5	189 18.5	200 19.6											

180W-200W-250W

GEARED-DOWN PARAMETER	SYNCHRONOUS SPEED		500	300	200	150	120	100	85	75	60	50	40	37	30	25	20	15	12.5	10	8	7	6	
	RATIO		3	5	7.5	10	12.5	15	18	20	25	30	36	40	50	60	75	100	120	150	180	200	250	
MAX ALLOWABLE LOAD	200 W	kg.cm N.m	39.4 3.86	66 6.44	89.8 8.8	119 11.7	149 14.5	180 17.6	214 21.0	239 23.4	299 29.3	358 35.1	392 38.4	435 42.6	440 43									
	250W	kg.cm N.m	49.3 4.83	82.1 8.1	112 11	149 14.6	186 18.3	224 22	268 26.4	298 26.4	375 36.6	438 43	440 43											

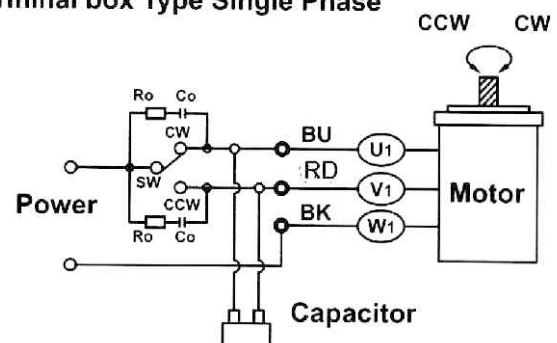
Wiring Diagram Three Phase

Lead Wire Type Three Phase



Wiring Diagram Single Phase

Terminal box Type Single Phase

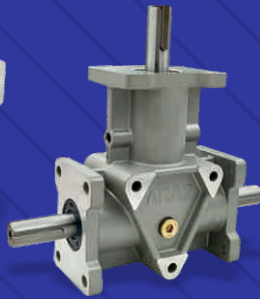




Aluminum Worm Gear Box



Worm Gear
Box Input Shaft



T & L Bevel
Gear Box



Worm Gear box
with Output Shaft



PC. Helical Gear



CH Helical
Gear Motor



Electric Motor



CV Helical
Gear Motor



Electric Motor



Worm Gear Motor



Cycloidal Gear Reducer
Flange Mount



Servo Gear Box



Cycloidal Reducer



Mechanical Speed Variator



Mechanical Speed Drives

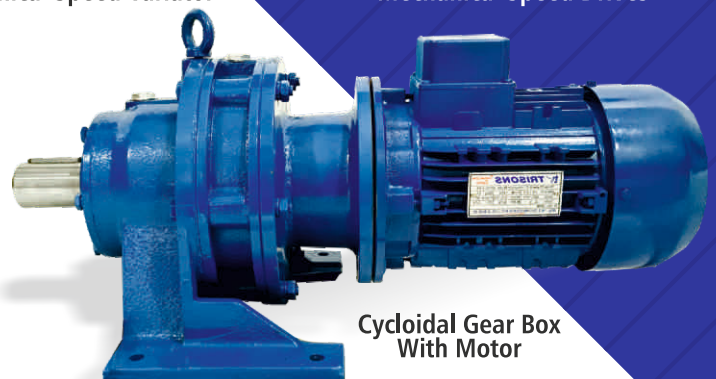
M. S. TRANSMISSIONS

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Cycloidal Gear Box
With Motor