

# KIRTI ELECTRICALS

## CENTRIFUGAL MONOBLOCK PUMPS



IS 8034

IS 14220



CM/L-7605 473 CM/L-3630 654



Since 1988

### Special Features :

- Motor Body** : Graded Cast Iron
- Volute Chamber** : Cast Iron Volute Chamber is designed to give the best possible hydraulic efficiency.
- Suction and Delivery Flange** : Cast Iron
- Impeller** : Dynamically balanced impeller offers vibration free operation with long life.
- Bearing** : Specially designed water lubricated bearings are used to withstand axial thrust loads with minimum wear and tear. Thrust Plate with Fiber Pad and CT Bearing of Gunmetal
- Stator** : The stator is wound with special water proof synthetic film insulated copper winding wires and made up of low watt loss steel laminations assembled under pressure and rigidly locked in stainless steel stator shell.
- Rotor Shaft** : Stainless Steel 420 H&T dynamically balanced rotor gives vibration free and noise free operation, thereby increases efficiency and life cycle of the motor.
- Sealing** : Monoblock Pump with Asbestos Gland Packing and Mechanical Seal (Carbon/Ceramic)
- Stamping** : Super enameled EC Grade Copper wire
- Cooling Fan** : P.V.C. Nylon / C.I.

Construction of Pumps Parts as per BIS specification.

## KIRTI ELECTRICALS

Manufacturer and Exporter of Pumps and Motors

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<b>Power Range</b>	0.5 HP - 3 HP (1 Ph.) 3 HP - 20 HP (3 Ph.)
<b>Speed</b>	2880 RPM
<b>Version</b>	Single phase 200-240V, Three phase, 380 -415V, 50Hz, A.C Supply
<b>Degree of Protection</b>	IP 44
<b>Direction of Rotation</b>	Clockwise viewed from driving end
<b>Nominal delivery size in mm</b>	25, 40, 50, 65, 75 & 100
<b>Type of Duty</b>	S1 (continuous)
<b>Insulation Class</b>	B (Class 'F' on demand)

### Pumper Liquid :

<b>Maximum Liquid Temperature</b>	50°C (max.)
<b>Permissible amount of sand</b>	25 gm/m <sup>3</sup> (max.)
<b>Chlorine ion density</b>	500 ppm (max.)
<b>Allowable solids</b>	3000 ppm (max.)
<b>Specific gravity</b>	1.004 (max.)
<b>Hardness (drinking water)</b>	300 (max.)
<b>Viscosity</b>	1.75 x 10 <sup>6</sup> m <sup>2</sup> /sec (max.)
<b>Turbidity</b>	50 ppm silica scale (max.)

### Application:

- Residential
- Irrigation
- Farms
- Industrial Water Supply
- General water Supply
- Drip & Sprinkler Systems
- Water Treatment Plants



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## DOMESTIC SINGLE PHASE CENTRIFUGAL MONOBLOCK PUMPS- PERFORMANCE CHART 230 VOLTS, 50 HZ, 2800 RPM

### PERFORMANCE CHART

Sr No.	Model	HP	KW	SIZE	MTRS.	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0
				MM															
1	KCMP5A	0.5	0.37	25 X 25	LPM					110	95	80	60	45	25				
2	KCMP5B	0.5	0.37	32 X 25	LPM			140	135	120	100	40							
3	KCMP5C	0.5	0.37	40 X 40	LPM		160	155	145	135	105								
4	KCMP5D	0.5	0.37	50 X 40	LPM			225	200	165	115								
5	KCMP5E	0.5	0.37	50 X 50	LPM	375	330	265											
6	KCM1A	1.0	0.75	25 X 25	LPM								135	128	122	112	102	75	45
7	KCM1B	1.0	0.75	40 X 40	LPM				200	190	180	170	150						
8	KCM1C	1.0	0.75	50 X 40	LPM			300	275	250	220	175							
9	KCM1D	1.0	0.75	50 X 50	LPM		365	305	275	255	200	100							
10	KCM1E	1.0	0.75	65 X 50	LPM	500	475	375	250										
11	KCM1F	1.0	0.75	75 X 65	LPM	650	550	425	275										
12	KCMP15A	1.5	1.1	40X 40	LPM							212	205	198	162	80			
13	KCMP15B	1.5	1.1	50 X 40	LPM					350	330	300	270	175					
14	KCMP15C	1.5	1.1	50 X 50	LPM				425	375	345	275	165						
15	KCMP15D	1.5	1.1	65 X 50	LPM		575	540	450	380									
16	KCMP15E	1.5	1.1	75 X 65	LPM	700	625	500	425										
17	KCM2A	2.0	1.5	40X 40	LPM									210	205	195	170	130	50
18	KCM2B	2.0	1.5	50 X 50	LPM					400	350	300	276	216					
19	KCM2C	2.0	1.5	65X 50	LPM				555	510	415	330	215						
20	KCM2D	2.0	1.5	75 X 75	LPM	800	775	650	550										
21	KCM2E	2.0	1.5	40 X 40	LPM									240	230	220	195	150	85
22	KCM2F	2.0	1.5	50 X 50	LPM					455	410	350	310	225	100				
23	KCM2G	2.0	1.5	65X 50	LPM				600	540	465	385	245						
24	KCM2H	2.0	1.5	75 X 75	LPM	900	825	725	630	450									
25	KCM2I	2.0	1.5	100 X 100	LPM	1200	975	795	595										
26	KCM3A	3.0	2.2	50 X 40	LPM				350	335	320	305	292	275	260	235	210	188	125
27	KCM3B	3.0	2.2	50 X 50	LPM				575	555	530	495	440	390					
28	KCM3C	3.0	2.2	65X 50	LPM			680	655	620	570	520	465	370					
29	KCM3D	3.0	2.2	65X 50	LPM					445	430	420	400	350	330	295			
30	KCM3E	3.0	2.2	65X 65	LPM	895		850	770	690	615	545							
31	KCM3F	3.0	2.2	75 X 65	LPM	910		900	825	700	550	455							
32	KCM3G	3.0	2.2	75 X 75	LPM		1010	920	835	680	595								

PERFORMANCE CHART

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## THREE PHASE CENTRIFUGAL MONOBLOCK PUMPS- PERFORMANCE CHART 415 VOLTS, 50 HZ, 2800 RPM

PERFORMANCE CHART

Sr No.	Model	HP	KW	Size MM	Mtrs	8.0	9.0	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40	42.5	45	47.5	50	52.5	55.0	57.5	60.0		
1	KCM3AT	3	2.2	50x40	LPM				345	335	325	315	295	265	225	195	115													
2	KCM3BT	3	2.2	50x50	LPM				560	555	550	500	400																	
3	KCM3CT	3	2.2	65x50	LPM			680	650	600	525	400	220																	
4	KCM3DT	3	2.2	65x50	LPM					455	450	415	370	295																
5	KCM3ET	3	2.2	65x65	LPM		900	885	770	695	570																			
6	KCM3FT	3	2.2	75x65	LPM		920	905	810	625	380																			
7	KCM3GT	3	2.2	75x75	LPM	1020	975	935	820	600																				
8	KCM5A	5	3.7	50x40	LPM													260	250	240	230	215	180	150						
9	KCM5B	5	3.7	65x50	LPM					920	820	725	645	545																
10	KCM5C	5	3.7	65x50	LPM					520	510	495	485	465	440	415	375	320												
11	KCM5D	5	3.7	65x65	LPM					945	865	775	680	500																
12	KCM5E	5	3.7	75x65	LPM					970	900	810	700	560																
13	KCM5F	5	3.7	75x75	LPM				1110	1065	1005	950	820	645																
14	KCM5G	5	3.7	100x100	LPM		1680	1600	1385	1150	880																			
15	KCM75A	7.5	5.5	50x40	LPM															415	385	345	310	255	195					
16	KCM75B	7.5	5.5	65x50	LPM											585	570	555	535	515	490	455	415	365	310					
17	KCM75C	7.5	5.5	75x65	LPM							1125	1075	1000	925	785	600													
18	KCM75D	7.5	5.5	75x75	LPM					1230	1150	1070	990	920	785	690														
19	KCM75E	7.5	5.5	100x100	LPM			1658	1580	1481	1357	1200	990																	
20	KCM10A	10.0	7.5	50x40	LPM																480	450	425	395	360	320	270	220		
21	KCM10B	10.0	7.5	65x50	LPM															600	570	545	520	490	460	400	320			
22	KCM10C	10.0	7.5	75x65	LPM								1200	1120	1020	910	785	645	450											
23	KCM10D	10.0	7.5	75x75	LPM							1260	1190	1120	1040	940	820	670												
24	KCM10E	10.0	7.5	100x100	LPM					1770	1675	1560	1440	1315	1090															

PERFORMANCE CHART