



Enriching Lives

# KDS

## SINGLE PHASE MONOBLOC PUMP



STRENGTHENED BY  
**99.9%**  
PURE EC GRADE  
COPPER WINDING WIRES

**High Efficiency and Energy Saving Design**



Delivers optimum efficiency at lower energy consumption

**Wide Voltage Range Operability**



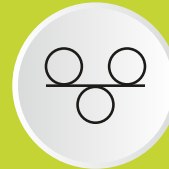
Protect the motor from burning due to lower/higher voltage

**CED Coating**



Better resistance against corrosion

**Dynamically Balance Rotating Parts**



Resulting in lesser vibrations and longer trouble-free operation

**BUY ELECTRIC PUMPS WITH PURE COPPER WINDING WIRES ONLY. ENQUIRE BEFORE BUYING.**

**ALWAYS BUY PUMPS WITH**



Enriching Lives

**and**



**LOGOS ON PACKAGING**

**KIRLOSKAR BROTHERS LIMITED**

Established 1888

A Kirloskar Group Company



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Toll Free Number: 1800 123 4443

www.kirloskarpumps.com

# KDS

## SINGLE PHASE MONOBLOC PUMP

### TECHNICAL SPECIFICATION

Head Range	- Up to 52 Metres
Discharge Range	- Up to 28 LPS
Power Rating	- 0.37 to 3.7 kW (0.5 to 5.0 HP)
Voltage Range	- 180 to 240 Volts (Single Phase) 120 to 220 Volts (Low Voltage) 230 to 400 Volts ("P" Series)
Insulation	- B / F Class
Protection	- IP44

### MATERIAL OF CONSTRUCTION

Impeller	- Cast Iron/Noryl
Delivery Casing	- Cast Iron
Motor Body	- Cast Iron
Pump Shaft	- Carbon Steel
Sealing	- Mechanical Seal

### APPLICATIONS

- Gardening and small farm irrigation
- Lawn sprinklers
- Water supply for high rise buildings
- Domestic and community water supply
- Water transfer and circulation

### FEATURES

#### Wide Voltage Design

The motor is designed to withstand wide voltage variation which reduces motor burning in case of low/high voltage.

#### Replaceable Wearing Parts

All wearing parts within the pumps are easily accessible and replaceable which facilitates ease of maintenance thereby extending the life of the pump.

#### TOP - Thermal Overload Protector

The pump set features a Thermal Overload Protector that protects the motor from overloading, shielding of the motor and associated circuit from the effects of fault current

#### CED – Cathodic Electro Deposition

CED is the latest coating technology for corrosion resistance with uniform coating. It provides 5 times more protection over conventional painting, resulting in longer life. All major CI parts of Kirloskar pumps coming in contact with the water are CED coated.

#### Automatic Air Release

Automatically releases air when the pump starts ensuring swifter and smoother operations, thus eliminating the necessity of operating air release cock.

#### High Efficiency and Energy Saving Design

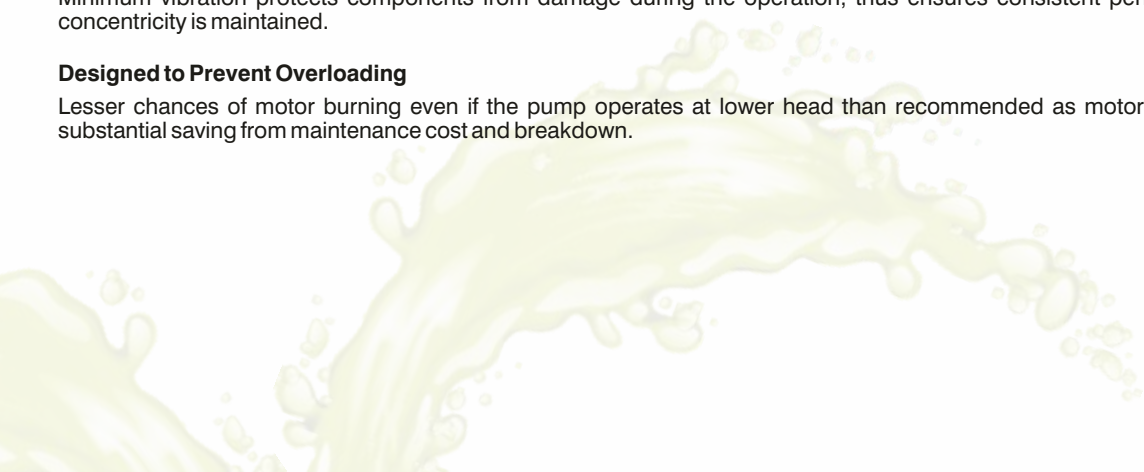
Innovative design manufactured at state of art plant, delivers optimum efficiency at lower energy consumption resulting in significant cost savings.

#### Dynamically Balanced Rotating Parts

Minimum vibration protects components from damage during the operation, thus ensures consistent performance over longer time period as concentricity is maintained.

#### Designed to Prevent Overloading

Lesser chances of motor burning even if the pump operates at lower head than recommended as motor does not get overload thus ensures substantial saving from maintenance cost and breakdown.



# KDS

## SINGLE PHASE MONOBLOC PUMP

PERFORMANCE CHART FOR KDS SERIES, 2 POLE, MONOBLOC PUMP, AT RATED VOLTAGE, 50 Hz FREQUENCY, SINGLE PHASE A.C. POWER SUPPLY																						
S. N.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METRES															
		kW	HP	SUC.	DEL.		4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34
							DISCHARGE IN LITRES PER SECOND															
1	KDS - 0510+	0.37	0.50	50	40	210	-	3.4	2.6	1.0	-	-	-	-	-	-	-	-	-	-		
2	KDS - 112	0.75	1.00	50	50	210	-	6.9	5.5	3.9	2.0	-	-	-	-	-	-	-	-	-		
3	KDS - 116++	0.75	1.00	50	40	210	-	5.4	5.0	4.6	4.2	3.6	3.0	1.9	-	-	-	-	-	-		
4	KDS - 116++	0.75	1.00	50	50	210	-	5.4	5.0	4.6	4.2	3.6	3.0	1.9	-	-	-	-	-	-		
5	KDS - 123+	0.75	1.00	32	25	210	-	-	-	4.1	3.6	3.2	2.7	2.2	1.7	0.9	-	-	-	-		
6	KDS - 128+	0.75	1.00	32	25	210	-	-	-	-	1.9	1.85	1.8	1.7	1.6	1.4	1.1	0.8	0.4	-		
7	KDS - 128+	0.75	1.00	50	40	210	-	-	-	-	1.9	1.85	1.8	1.7	1.6	1.4	1.1	0.8	0.4	-		
8	KDS - 128+	0.75	1.00	40	40	210	-	-	-	-	1.9	1.85	1.8	1.7	1.6	1.4	1.1	0.8	0.4	-		
9	KDS - 134+	0.75	1.00	25	25	210	-	-	-	-	-	-	-	2.1	1.9	1.7	1.5	1.3	1.0	0.7		
10	KDS - 1.514	1.10	1.50	65	50	210	-	-	8.5	7.1	5.7	3.0	-	-	-	-	-	-	-	-		
11	KDS - 1.514++	1.10	1.50	50	50	210	-	-	8.5	7.1	5.7	3.0	-	-	-	-	-	-	-	-		
12	KDS - 1.522++	1.10	1.50	50	40	210	-	-	6.3	5.9	5.5	5.0	4.5	3.9	3.1	1.8	-	-	-	-		
13	KDS - 1.525+	1.10	1.50	50	40	210	-	2.6	2.55	2.5	2.45	2.4	2.3	2.2	2.1	2.0	1.8	1.6	1.3	0.4		
14	KDS - 211N	1.50	2.00	80	80	230	14.3	12.7	10.7	8.0	-	-	-	-	-	-	-	-	-	-		
15	KDS - 216M	1.50	2.00	80	80	230	-	-	11.0	10.1	8.8	7.1	4.0	-	-	-	-	-	-	-		
16	KDS - 216++	1.50	2.00	65	50	230	-	-	11.0	10.1	8.8	7.1	4.0	-	-	-	-	-	-	-		
17	KDS - 222	1.50	2.00	65	50	220	-	-	-	8.4	8.0	7.5	6.7	5.7	4.2	2.0	-	-	-	-		
18	KDS - 225++	1.50	2.00	50	50	230	-	-	5.3	5.1	4.9	4.7	4.5	4.2	3.9	3.5	2.8	-	-	-		
19	KDS - 225++	1.50	2.00	50	40	230	-	-	-	-	6.3	6.1	5.9	5.6	5.2	4.8	4.2	3.0	-	-		
20	KDS - 235+	1.50	2.00	50	40	230	-	-	4.3	4.2	4.1	4.0	3.9	3.7	3.5	3.3	3.0	2.9	2.3	2.0		
21	KDS - 312	2.20	3.00	100	100	230	20.0	17.5	14.5	10.5	-	-	-	-	-	-	-	-	-	-		
22	KDS - 314+	2.20	3.00	100	100	230	-	19.2	17.9	16.2	14.0	10.5	-	-	-	-	-	-	-	-		
23	KDS - 314+	2.20	3.00	80	80	230	-	19.2	17.9	16.2	14.0	10.5	-	-	-	-	-	-	-	-		
24	KDS - 318++	2.20	3.00	80	65	230	-	-	13.4	12.6	11.7	10.7	9.2	7.5	4.5	-	-	-	-	-		
25	KDS - 318++	2.20	3.00	65	50	230	-	-	13.4	12.6	11.7	10.7	9.2	7.5	4.5	-	-	-	-	-		
26	KDS - 318+	2.20	3.00	80	80	230	-	-	13.4	12.6	11.7	10.7	9.2	7.5	4.5	-	-	-	-	-		
27	KDS - 325++	2.20	3.00	65	50	230	-	-	-	9.2	8.8	8.4	7.9	7.4	7.0	6.4	5.8	4.9	-	-		
28	KDS - 335++	2.20	3.00	50	40	230	-	-	-	-	5.7	5.5	5.4	5.2	5.0	4.8	4.5	4.3	3.9	3.5		
29	KDS - 515+	3.70	5.00	100	100	230	-	-	-	28.0	24.0	19.0	12.5	-	-	-	-	-	-	-		
30	KDS - 520+	3.70	5.00	80	80	230	-	23.8	23.0	22.1	21.0	19.6	17.9	15.8	13.5	11.0	-	-	-	-		
31	KDS - 527+	3.70	5.00	80	65	230	-	-	-	-	-	-	14.3	13.5	12.6	11.6	10.4	9.1	6.8	-		
32	KDS - 1.540+	1.10	1.50	32	25	230	-	-	-	2.0	1.9	1.7	1.6	1.45	1.3	1.1	0.9	0.6	-	-		
33	KDS - 246	1.50	2.00	32	25	210	-	-	-	-	-	-	-	3.2	2.9	2.7	2.5	2.2	1.7	0.5		
34	KDS - 538+	3.70	5.00	65	50	230	-	8.4	8.3	8.2	8.1	7.9	7.7	7.5	7.1	6.6	5.8	5.0	4.0	-		
35	KDS - 550++	3.70	5.00	50	40	230	-	-	-	-	-	-	-	-	-	4.1	3.9	3.7	3.3	2.7		

**Note:**

- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.

PERFORMANCE CHART FOR 'KDS-LV' SERIES, 2 POLE, MONOBLOC PUMPS, AT RATED VOLTAGE, 50Hz FREQUENCY , SINGLE PHASE A.C. POWER SUPPLY																				
S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METERS													
		kW	HP	SUC.	DEL.		4	6	8	10	12	14	16	18	20	22	24	26		
							DISCHARGE IN LITRES PER SECOND													
1	KDS - 112 LV	0.75	1.0	50	50	160	-	6.3	5.0	3.1	-	-	-	-	-	-	-	-	-	-
2	KDS - 113 LPLV	0.75	1.0	50	50	200	-	-	7.0	5.7	4.2	2.1	-	-	-	-	-	-	-	-
3	KDS - 116 LV	0.75	1.0	50	40	160	-	-	-	4.4	3.9	3.4	2.7	-	-	-	-	-	-	-
4	KDS - 128 LV	0.75	1.0	40	40	160	-	-	-	-	-	2.05	1.85	1.65	1.45	1.2	0.9	0.6	-	-
5	KDS - 1.514+ LV	1.1	1.5	65	50	160	-	8.3	7.4	6.4	5.0	2.8	-	-	-	-	-	-	-	-
6	KDS - 1.514 LV	1.1	1.5	50	50	160	-	8.3	7.4	6.4	5.0	2.8	-	-	-	-	-	-	-	-
7	KDS - 1.514++L	1.1	1.5	65	50	160	-	8.3	7.4	6.4	5.0	2.8	-	-	-	-	-	-	-	-
8	KDS - 1.514++L	1.1	1.5	50	50	160	-	8.3	7.4	6.4	5.0	2.8	-	-	-	-	-	-	-	-
9	KDS - 212N LV	1.5	2.0	80	80	200	-	-	14.2	11.8	9.0	-	-	-	-	-	-	-	-	-
10	KDS - 216LV+	1.5	2.0	65	50	200	-	-	10.0	9.0	7.9	6.5	3.5	-	-	-	-	-	-	-
11	KDS - 216LV	1.5	2.0	80	65	200	-	-	10.0	9.0	7.9	6.5	3.5	-	-	-	-	-	-	-
12	KDS - 222 LV	1.5	2.0	65	50	200	-	-	-	8.4	8.0	7.5	6.7	5.7	4.2	2.0	-	-	-	-
13	KDS - 312 LV	2.2	3.0	100	100	200	20.0	17.0	14.0	10.0	-	-	-	-	-	-	-	-	-	-

**Note:**

- LV Denotes - Low Voltage
- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.

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## SINGLE PHASE MONOBLOC PUMP

PERFORMANCE CHART FOR 'KDS-P' SERIES, 2 POLE, MONOBLOC PUMPS, AT RATED VOLTAGE, 50Hz FREQUENCY, SINGLE PHASE A.C. POWER SUPPLY

S. No.	PUMP MODEL	Power Rating		Pipe Size (mm)		Rated Voltage (Volts)	TOTAL HEAD IN METERS										
		kW	HP	SUC.	DEL.		6	8	10	12	14	16	18	20	22	24	26
							DISCHARGE IN LITRES PER SECOND										
1	KDS - 112 P	0.75	1.0	50	50	240	6.5	5.4	4.0	2.0	-	-	-	-	-	-	-
2	KDS - 113 LP	0.75	1.0	50	50	240	-	6.5	5.3	3.5	1.5	-	-	-	-	-	-
3	KDS - 116+ P	0.75	1.0	50	50	240	-	5.1	4.5	3.9	3.1	2.0	-	-	-	-	-
4	KDS - 1.516 LP	1.1	1.5	65	50	240	-	-	8.3	7.0	5.2	2.8	-	-	-	-	-
5	KDS - 1.525+ P	1.1	1.5	50	40	240	2.20	2.15	2.05	2.00	1.90	1.85	1.75	1.6	1.3	0.9	-
6	KDS - 213N	1.5	2.0	80	80	240	15.2	13	10.0	6.0	-	-	-	-	-	-	-
7	KDS - 214LP	1.5	2.0	80	80	240	14.0	12.0	10.0	7.5	-	-	-	-	-	-	-
8	KDS - 216LP	1.5	2.0	80	65	240	-	9.8	8.3	6.8	5.0	2.0	-	-	-	-	-
9	KDS - 216A	1.5	2.0	65	50	240	-	9.0	8.0	6.8	5.1	2.8	-	-	-	-	-
10	KDS - 216+ P	1.5	2.0	65	50	240	-	10.0	9.1	7.9	6.2	3.4	-	-	-	-	-
11	KDS - 222P	1.5	2.0	65	50	240	-	8.2	7.8	7.0	6.2	5.3	4.0	1.2	-	-	-
12	KDS - 225+ P	1.5	2.0	50	40	240	-	-	-	-	4.35	4.05	3.75	3.45	3.1	2.5	-
13	KDS - 312 P	2.2	3.0	100	100	240	13.7	10.2	6.0	-	-	-	-	-	-	-	-
14	KDS - 314+ P	2.2	3.0	100	100	240	17.0	15.3	13.5	11.2	7.0	-	-	-	-	-	-
15	KDS - 325++ P	2.2	3.0	65	50	240	-	-	-	-	-	7.5	6.8	6.0	5.3	4.5	3.5
16	KDS - 527+ P	3.7	5.0	80	65	240	-	-	-	-	13.8	12.9	12.0	11.1	10.2	9.2	7.6

**Note:**

- Performance under standard test conditions and may vary on site conditions.
- Performance applicable to liquid of specific gravity 1 and viscosity as of water.

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