

beacon

MONOBLOC PUMPS-DM SERIES

(For High rise Buildings / Agricultural / Industrial Applications)



2 to 5.0 hp in TEFC



7.5 to 30 hp in SPDP

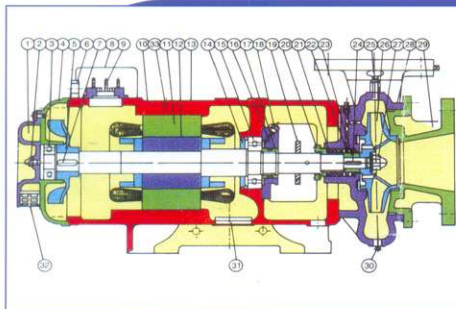


Range 2.0 HP to 30 HP 2 Pole,
3 ϕ as per IS 9079.

Motors with class 'B' insulation, works between 350 and 440 Volts, Gland Packing or Mech. Seal arrangement, Rotating parts dynamically balanced

Best & Crompton Engg. Ltd.

SPDP MONOBLOC CENTRIFUGAL PUMPSET (7.5 TO 30 H.P.)



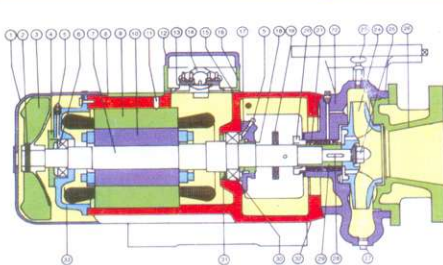
List of Parts:

- | | |
|---------------------------|--------------------------|
| 1. Air intake Cover | 18. Grease Nipple |
| 2. Grease Nipple | 19. Water Thrower |
| 3. Ball Bearing Far End | 20. Gland |
| 4. Endshield | 21. Gland Packing |
| 5. Fan | 22. Water Seal Cage |
| 6. Terminal Box Gland | 23. Shaft Sleeve |
| 7. Fan Key | 24. Impeller Nut |
| 8. Terminal Box | 25. Air Cock |
| 9. Terminal Block | 26. Impeller |
| 10. Frame | 27. Impeller Nut |
| 11. Stator | 28. Casing |
| 12. Rotor | 29. Suction Cover |
| 13. Shaft | 30. Drain Plug |
| 14. Inner Bearing Cover | 31. Air Outlet mesh |
| 15. Ball Bearing Pump End | 32. Air Inlet mesh |
| 16. Outer Bearing Cover | 33. Stator Locking Screw |
| 17. Bearing Lock Nut | |

TEFC MONOBLOC CENTRIFUGAL PUMPSET (2 TO 5 H.P.)

List of Parts:

- | | |
|----------------------------------|---------------------------|
| 1. Fan Caul | 18. Circlip |
| 2. Cotter Pin | 19. Water Thrower |
| 3. Fan | 20. Gland |
| 4. Bearing Cover Far End | 21. Gland Packing |
| 5. Grease Nipple | 22. Casing |
| 6. Ball Bearing Far End | 23. Air Cock |
| 7. Shaft | 24. Impeller |
| 8. Frame | 25. Impeller Nut |
| 9. Stator | 26. Suction Cover |
| 10. Rotor | 27. Drain Plug |
| 11. Stator Locking Screw | 28. Impeller Key |
| 12. Terminal Box Cover | 29. Water Seal Cage |
| 13. Terminal Block | 30. Ball Bearing Pump End |
| 14. Terminal Box Gland | 31. Inner Bearing Cover |
| 15. Terminal Box Gasket | 32. Shaft Sleeve |
| 16. Terminal Box | 33. End Shield |
| 17. Outer Bearing Cover Pump End | |



Specifications:

PUMP

CASING: Cast Iron. Can be turned to give horizontal discharge if required.

IMPELLER: Cast Iron. Hand-finished and dynamically balanced and keyed to shaft. Passages provided through hub to relieve stuffing box pressure and give hydraulic balance.

SHAFT SLEEVE: Bronze, extending through stuffing box.

STUFFING BOX: Integral with casing and water sealed.

GLAND: Cast Iron.

WATER THROWER: Rubber

The above specifications cover our standard pumps. Pumps of special materials construction can be supplied at extra cost.

MOTOR

STATOR: 3 phase, 50 cycle induction type; windings specially insulated with Class 'E' materials and impregnated to exclude moisture. Eminently suitable for tropical service. Motors wound for 353/440 volts.

ROTOR: Squirrel cage type, virtually indestructible.

SHAFT: Extra large diameter of steel.

BEARINGS: Grease lubricated ball type.

VENTILATION: Forced air from a fan at the end away from the pump.

TERMINAL BOX: Arranged for conduit.

FRAME & BASE: Cast iron, drip and splash proof. Designed as integral part of pump.

PERFORMANCE: Conforms to IS: 9079-1979 (Approximate BS equivalent - BS 5316 Part I /1979 class - C)

Specifications:

PUMP:

CASING: Cast Iron. Can be turned to give horizontal discharge if required.

IMPELLER: Cast Iron. Hand-finished and dynamically balanced and keyed to shaft. Passages provided through hub to relieve stuffing box pressure and five hydraulic balance.

SHAFT SLEEVE: Bronze, extending through stuffing box.

STUFFING BOX: Integral with casing and water sealed.

GLAND: Cast Iron.

WATER THROWER: Rubber

COMPANION FLANGES: Provided on pumps with flanged openings.

MOTOR:

DRIVING PORTION:

STATOR: 3 phase, 50 cycle induction type; windings specially insulated with Class 'E' materials and impregnated to exclude moisture. Eminently suitable for tropical service. Motors wound for 353/440 volts.

ROTOR: Squirrel cage type, virtually indestructible.

SHAFT: Extra large diameter of steel.

BEARINGS: Grease lubricated ball type.

TERMINAL BOX: Arranged for conduit.

FRAME & BASE: Cast Iron. Totally enclosed. Fan cooled, designed as integral part of pumps.

PERFORMANCE: Conforms to IS: 9079-1979 (Approximate BS equivalent - BS 5316 Part 1/1979 class - C)

WATER RATING CHART

PUMPSETS UP TO 5 H.P. IN TEFC MOTORS & ABOVE IN SPDP MOTORS OUTPUT IN LPS AT 2900 R.P.M.

Sl. No	MODEL	HP/KW	SUCTION & DELIVERY IN mm	TOTAL HEAD IN METERS FROM ALL CAUSES																							
				6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66			
1.	1DM5	2/1.5	40x25	-	-	-	3.6	3.2	2.6	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.	1½ DM 6-LD	2/1.5	50x40	-	-	-	4.0	3.7	3.3	2.8	2.2	1.2	-	-	-	-	-	-	-	-	-	-	-				
3.	1½ DM 6-HD	2/1.5	50x40	-	-	5.8	5.3	4.5	3.7	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-				
4.	2DM 4	2/1.5	65x50	-	8.7	7.7	6.5	4.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
5.	1½ DM 8-LD	3/2.2	50x40	-	-	-	-	-	4.4	4.0	3.6	3.3	2.6	1.5	-	-	-	-	-	-	-	-	-				
6.	1½ DM 6-HD	3/2.2	50x40	-	-	-	7.2	6.7	6.2	5.6	5.0	4.1	2.5	-	-	-	-	-	-	-	-	-	-				
7.	1½ DM 8-HD	3/2.2	50x40	-	-	6.0	5.5	5.0	4.5	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-				
8.	2 DM 4	3/2.2	65x50	-	-	10.4	9.5	8.2	6.4	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-				
9.	2 DM 5	3/2.2	65x50	-	-	11.8	10.6	9.2	7.5	4.8	-	-	-	-	-	-	-	-	-	-	-	-	-				
10.	2½ DM 4	3/2.2	75x65	15.0	13.5	11.7	8.7	5.0	4.5	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-				
11.	1½ DM 8-LD	5/2.2	50x40	-	-	-	-	-	-	-	5.0	4.7	4.4	3.8	3.4	2.7	1.8	-	-	-	-	-	-				
12.	1½ DM 8-HD	5/3.7	50x40	-	-	-	7.2	6.8	6.5	6.0	5.4	4.6	3.5	-	-	-	-	-	-	-	-	-	-				
13.	2 DM 6	5/3.7	65x50	-	-	-	13.7	13.0	12.0	10.7	9.3	7.3	-	-	-	-	-	-	-	-	-	-	-				
14.	2½ DM 4	5/3.7	75x65	-	19.9	18.5	17.0	15.3	13.0	9.0	-	-	-	-	-	-	-	-	-	-	-	-	-				
15.	3 DM 4-LD	5/3.7	100x75	-	20.0	18.0	16.0	13.8	11.0	6.4	-	-	-	-	-	-	-	-	-	-	-	-	-				
16.	3 DM 4-HD	5/3.7	100x75	-	20.5	19.0	17.0	14.0	9.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
17.	1½ DM 8-LD	7.5/5.5	50x40	-	-	-	-	-	-	-	-	-	5.5	5.3	4.9	4.5	4.2	3.6	3.0	2.2	1.2	-	-				
18.	1½ DM 8-HD	7.5/5.5	50x40	-	-	-	-	8.6	8.5	8.2	7.8	7.5	7.0	6.6	6.0	5.4	4.5	-	-	-	-	-	-				
19.	2 DM 6	7.5/5.5	65x50	-	-	-	-	-	13.5	12.8	11.9	10.7	9.1	6.0	-	-	-	-	-	-	-	-	-				
20.	2½ DM 8	7.5/5.5	75x65	-	-	-	-	-	-	12.5	9.5	-	-	-	-	-	-	-	-	-	-	-	-				
21.	3 DM 3	7.5/5.5	100x75	-	37.8	32.5	24.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
22.	3 DM 4-LD	7.5/5.5	100x75	-	-	21.9	20.5	19.2	17.6	15.4	12.1	9.5	-	-	-	-	-	-	-	-	-	-	-				
23.	3 DM 4-HD	7.5/5.5	100x75	-	-	23.2	22.0	20.0	18.0	15.3	11.0	-	-	-	-	-	-	-	-	-	-	-	-				
24.	1½ DM 8-HD	10/7.5	50x40	-	-	-	-	-	9.3	9.1	9.0	8.7	8.4	8.2	7.7	7.3	6.8	6.3	5.5	4.9	-	-	-				
25.	2 DM 7	10/7.5	65x50	-	-	-	-	-	-	-	-	-	13.4	12.6	11.8	10.7	9.5	7.6	4.0	-	-	-	-				
26.	2 DM 9	10/7.5	50x50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.9	7.8	6.5	4.0	-				
27.	2½ DM 8	10/7.5	75x65	-	-	-	-	-	-	-	-	-	13.5	10.5	-	-	-	-	-	-	-	-	-				
28.	3 DM 3	10/7.5	100x75	-	-	40.0	36.4	30.8	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
29.	3 DM 4-HD	10/7.5	75x100	-	-	-	26.8	25.0	23.5	21.5	19.3	16.6	12.5	-	-	-	-	-	-	-	-	-	-				
30.	2 DM 7	12.5/9.3	65x50	-	-	-	-	-	-	-	-	-	-	12.7	11.8	10.7	9.4	8.1	5.1	-	-	-	-				
31.	2½ DM 7	12.5/9.3	75x65	-	-	-	-	-	-	-	-	-	-	16.2	14.9	12.8	10.2	-	-	-	-	-	-				
32.	3 DM 3	12.5/9.3	100x75	-	-	-	39.2	34.0	27.0	14.0	-	-	-	-	-	-	-	-	-	-	-	-	-				
33.	2 DM 7	15/11	65x50	-	-	-	-	-	-	-	-	-	-	-	14.6	14.0	13.0	12.2	11.0	9.8	8.3	6.0	-				
34.	2½ DM 7	15/11	75x65	-	-	-	-	-	-	-	-	-	-	-	-	16.8	15.2	13.0	10.0	-	-	-	-				
35.	3 DM 8	15/11	100x75	-	-	-	-	-	-	27.5	25.0	20.0	12.0	-	-	-	-	-	-	-	-	-	-				
36.	2½ DM 7	20/15	75x65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.8	17.4	15.6	13.7	11.2	6.5				
37.	3 DM 8	20/15	100x75	-	-	-	-	-	-	-	32.2	30.5	28.2	24.0	19.0	8.8	-	-	-	-	-	-	-				
38.	3 DM 8	25/19	100x75	-	-	-	-	-	-	-	-	-	-	-	-	32.8	30.0	26.3	21.3	15.6	-	-	-				
39.	3 DM 8	30/22	100x75-12	-	-	-	-	-	-	-	-	-	-	-	-	-	38.0	36.3	34.1	31.3	28.0	23.7	17.0				

Best & Crompton Engg. Ltd.

Dealer