beacon

MONOBLOC PUMPS-DM SERIES

(For High rise Buildings / Agricultural / Industrial Applications)

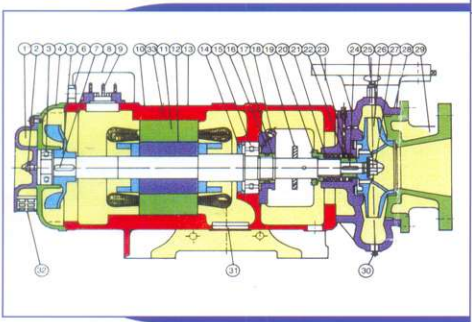
2 to 5.0 hp in TEFC

7.5 to 30 hp in SPDP

Range 2.0 HP to30 HP 2 Pole, 3 Ø 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.)



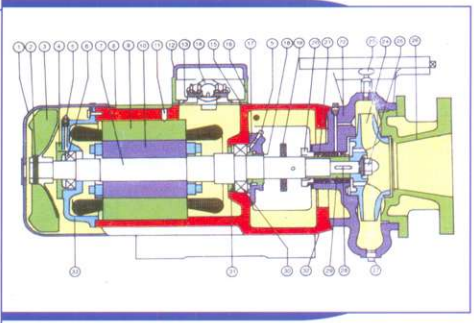
List of Parts:

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

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

List of Parts:

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



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 pumpt.

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 relive 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	-	-	-	26.6	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