

MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron



Cast iron monobloc centrifugal electric pumps in compliance with EN 733.

APPLICATIONS

- Moving clean water for civil, agricultural, industrial use, pressure boosting units, heating and air conditioning plants
- Farming irrigation
- Sport centres
- Washing plants

TECHNICAL DETAILS

- Available in "H" version (Ceramic/Graphite/FPM)
- Available in "HS" version (SiC/SiC/FPM)
- Available in "HW" version (Widia/Widia/FPM)

TECHNICAL DATA

- Maximum temperature of the liquid: 90°C (MD), 130°C (MMD)
- Maximum working pressure: 10 bar
- Self-ventilated 2 and 4 pole asynchronous motor
- Class of insulation F
- IP55 Protection rating
- 230V ±10%, 50Hz single phase voltage three phase voltage 230/400V ±10% 50Hz up to 4 kW included, three phase voltage 400/690V ± 10% 5.5 kW and over
- Permanent capacitor inserted and thermo-amperometric protection with automatic rearm incorporated for the single phase motor
- Protection under user's responsibility for the three phase version

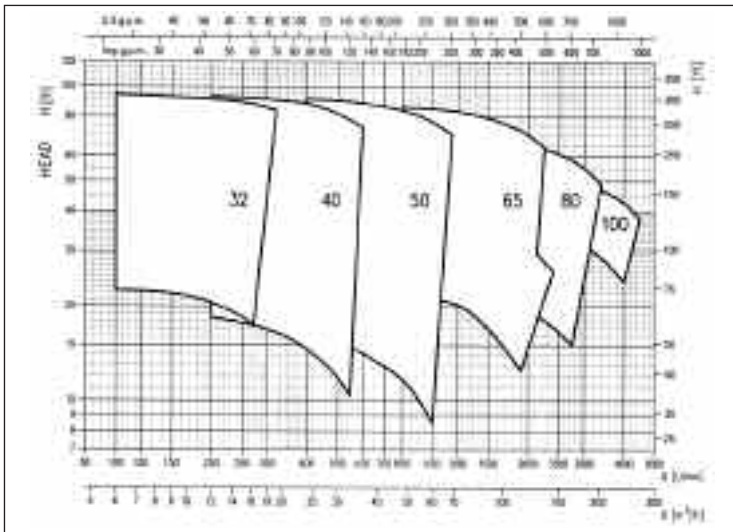
MATERIALS

- Cast iron pump body and support
- Shaft in AISI 304 (MD), in AISI 406 (MMD)
- Mechanical seal in Carbon/Ceramic/NBR (MD), in SiC/SiC/EPDM (MMD)
- Impeller in cast iron and bronze B10

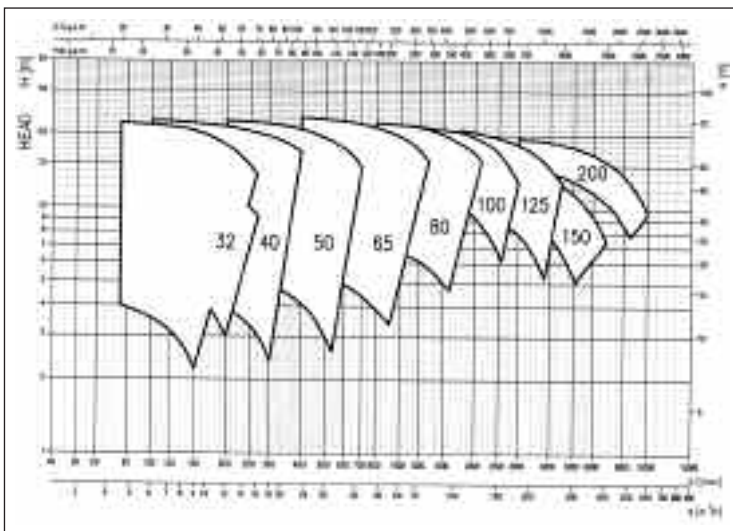
ACCESSORIES (on request)

- Galvanised counter-flange

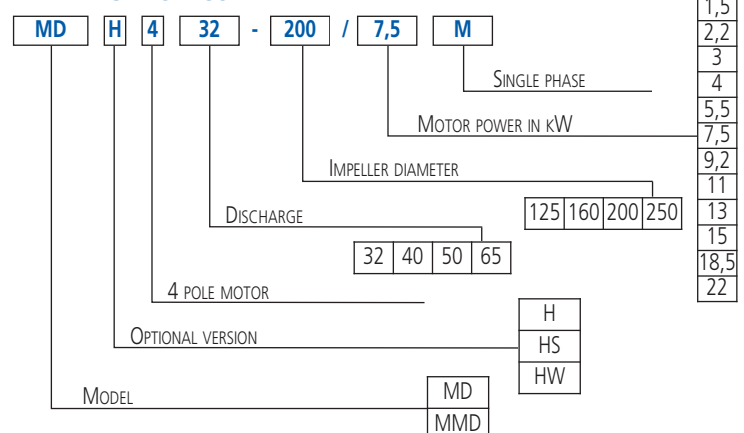
2 Pole - PERFORMANCE RANGE (according to ISO 9906 Attachment A)



4 Pole - PERFORMANCE RANGE (according to ISO 9906 Attachment A)



IDENTIFICATION CODE



MD - MMD

MONOBLOC CENTRIFUGAL ELECTRIC PUMP IN COMPLIANCE WITH EN 733

in cast iron

MD PERFORMANCE TABLE

2 Poles

| Model | P ₂ | | Q=Flow rate | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------------|------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
| | [HP] | [kW] | l/min m ³ /h | 100 | 200 | 250 | 280 | 320 | 400 | 550 | 600 | 667 | 800 | 1000 | 1100 | 1150 | 1200 | 1400 | 1900 | 2000 | 2200 | 2300 | 2400 | |
| | | | | 6 | 12 | 15 | 17 | 19 | 24 | 33 | 36 | 40 | 48 | 60 | 66 | 69 | 72 | 84 | 114 | 120 | 132 | 138 | 144 | |
| H=Head [m] | | | | | | | | | | | | | | | | | | | | | | | | |
| MD 32-125/1.1 (M) | 1,5 | 1,1 | 22,5 | 20,5 | 18,5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 32-125/1.1 (M) | 1,5 | 1,5 | 23,5 | 21,5 | 19,7 | 18,5 | 16,6 | 12,0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 32-125/1.1 (M) | 1,5 | 1,5 | 27,0 | 24,0 | 22,0 | 20,5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 32-125/1.1 (M) | 1,5 | 2,2 | 34,5 | 32,0 | 30,0 | 28,5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 32-200/3.0 | 4 | 3 | 41,0 | 36,5 | 33,0 | 30,5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 32-200/4.0 | 5,5 | 4 | 50,5 | 47,0 | 44,5 | 42,5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 32-250/5.5 | 7,5 | 5,5 | 57,0 | 54,0 | 51,0 | 49,0 | 45,0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 32-250/7.5 | 10 | 7,5 | 70,0 | 67,0 | 64,0 | 62,0 | 58,0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 32-250/9.2 | 12,5 | 9,2 | 83,0 | 80,0 | 78,0 | 76,0 | 73,0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 32-250/11 | 15 | 11 | 94,0 | 91,0 | 89,0 | 87,0 | 84,0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 32-125/1.1 (M) | 1,5 | 1,5 | 19,5 | 18,4 | 17,7 | 17,2 | 16,5 | 14,6 | 10,3 | 8,5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 32-125/1.1 (M) | 1,5 | 2,2 | 25,0 | 23,5 | 23,0 | 22,5 | 22,0 | 20,5 | 16,9 | 15,5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 40-160/3.0 | 4 | 3 | 30,5 | 29,0 | 28,0 | 27,5 | 26,5 | 25,0 | 21,0 | 19,0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 40-160/4.0 | 5,5 | 4 | 38,0 | 36,5 | 36,0 | 35,5 | 35,0 | 33,0 | 29,5 | 28,0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 40-200/5.5 | 7,5 | 5,5 | 48,0 | 47,0 | 46,0 | 45,5 | 44,5 | 42,5 | 37,5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 40-200/7.5 | 10 | 7,5 | 57,5 | 56,5 | 55,5 | 55,0 | 54,5 | 52,5 | 47,5 | 45,0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 40-250/11 | 15 | 11 | - | 73,0 | 72,0 | 71,5 | 70,0 | 66,5 | 58,5 | 55,0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 40-250/13 | 17,5 | 13 | - | 84,0 | 83,5 | 82,5 | 81,5 | 78,0 | 69,0 | 65,0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 40-250/15 | 20 | 15 | - | 93,0 | 92,0 | 91,5 | 90,5 | 88,0 | 78,0 | 74,0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MD 32-125/1.1 (M) | 1,5 | 2,2 | - | - | - | - | - | 16,0 | 14,8 | 14,3 | 13,5 | 11,7 | 8,5 | - | - | - | - | - | - | - | - | - | - | - |
| MD 50-125/3.0 | 4 | 3 | - | - | - | - | - | 19,5 | 18,6 | 18,2 | 17,6 | 16,1 | 13,0 | - | - | - | - | - | - | - | - | - | - | - |
| MD 50-125/4.0 | 5,5 | 4 | - | - | - | - | - | 24,0 | 23,0 | 23,0 | 22,0 | 21,0 | 17,8 | 16,0 | - | - | - | - | - | - | - | - | - | - |
| MD 50-160/5.5 | 7,5 | 5,5 | - | - | - | - | - | 32,5 | 31,0 | 30,5 | 30,0 | 28,0 | 24,5 | 22,5 | - | - | - | - | - | - | - | - | - | - |
| MD 50-160/7.5 | 10 | 7,5 | - | - | - | - | - | 38,0 | 37,0 | 36,5 | 35,5 | 34,0 | 31,0 | 29,0 | 28,0 | 27,0 | - | - | - | - | - | - | - | - |
| MD 50-200/9.2 | 12,5 | 9,2 | - | - | - | - | - | 48,0 | 46,0 | 45,0 | 44,0 | 41,0 | 36,0 | 33,0 | - | - | - | - | - | - | - | - | - | - |
| MD 50-200/11 | 15 | 11 | - | - | - | - | - | 54,5 | 53,0 | 52,0 | 51,0 | 48,5 | 43,5 | 40,5 | 39,0 | 37,0 | - | - | - | - | - | - | - | - |
| MD 50-250/15 | 20 | 15 | - | - | - | - | - | 69,0 | 67,0 | 66,0 | 64,0 | 60,5 | 52,5 | 47,0 | - | - | - | - | - | - | - | - | - | - |
| MD 50-250/18.5 | 25 | 18,5 | - | - | - | - | - | 80,0 | 78,5 | 77,5 | 76,0 | 72,5 | 65,0 | 60,0 | 57,0 | - | - | - | - | - | - | - | - | - |
| MD 50-250/22 | 30 | 22 | - | - | - | - | - | 91,0 | 89,5 | 88,5 | 87,0 | 84,0 | 77,0 | 72,5 | 70,0 | - | - | - | - | - | - | - | - | - |
| MD 65-125/5.5 | 7,5 | 5,5 | - | - | - | - | - | - | - | 23,2 | 23,0 | 22,5 | 21,5 | 20,5 | 20,0 | 18,2 | 12,5 | - | - | - | - | - | - | - |
| MD 65-125/7.5 | 10 | 7,5 | - | - | - | - | - | - | - | 26,5 | 26,0 | 25,5 | 24,5 | 24,0 | 23,5 | 23,0 | 21,5 | 16,3 | 15,0 | - | - | - | - | - |
| MD 65-160/11 | 15 | 11 | - | - | - | - | - | - | - | - | 34,0 | 33,5 | 33,0 | 32,5 | 32,0 | 32,0 | 30,5 | 26,5 | 25,5 | 23,0 | 22,0 | - | - | - |
| MD 65-160/15 | 20 | 15 | - | - | - | - | - | - | - | - | - | 38,0 | 37,5 | 37,0 | 36,5 | 36,5 | 35,0 | 31,0 | 30,5 | 28,5 | 27,0 | 26,0 | - | - |
| MD 65-200/18.5 | 25 | 18,5 | - | - | - | - | - | - | - | - | - | 53,5 | 52,5 | 51,5 | 51,0 | 50,5 | 48,5 | 42,0 | 40,5 | 37,0 | - | - | - | - |
| MD 65-200/22 | 30 | 22 | - | - | - | - | - | - | - | - | - | 59,5 | 58,5 | 58,0 | 57,5 | 57,0 | 55,5 | 50,0 | 49,0 | 46,0 | - | - | - | - |

MMD PERFORMANCE TABLE

2 Poles

| Model | P ₂ | | Q=Flow rate | | | | | | | | | | | | | |
|-----------------|----------------|------|----------------------------|------|------|------|------|------|-------|------|-------|-------|------|-------|--------|------|
| | [HP] | [kW] | l/min m ³ /h | 800 | 1000 | 1250 | 1500 | 1750 | 2000 | 2250 | 2500 | 2750 | 3000 | 3500 | 4000 | 4500 |
| | | | | 48 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 210 | 240 | 270 |
| H=Head [m] | | | | | | | | | | | | | | | | |
| MMD 65-250/22 | 30 | 22 | 64,0 | 63,0 | 61,0 | 57,0 | 53,0 | - | - | - | - | - | - | - | - | - |
| MMD 65-250/30 | 40 | 30 | 77,0 | 76,0 | 74,0 | 70,0 | 66,0 | 60,0 | 53,0* | - | - | - | - | - | - | - |
| MMD 65-250/37 | 55 | 37 | 86,0 | 85,0 | 83,0 | 79,0 | 75,0 | 70,0 | 64,0* | - | - | - | - | - | - | - |
| MMD 80-160/10 | 13,6 | 10 | - | 24,0 | 23,0 | 22,0 | 21,0 | 19,5 | 18,0 | 16,5 | 15,0* | - | - | - | - | - |
| MMD 80-160/12.5 | 17 | 12,5 | - | 28,5 | 28,0 | 27,0 | 26,0 | 24,5 | 23,0 | 21,5 | 20,0 | 18,5* | - | - | - | - |
| MMD 80-160/15 | 20 | 15 | - | 34,0 | 33,3 | 32,5 | 31,8 | 31,0 | 29,0 | 27,5 | 26,0 | 24,3 | - | - | - | - |
| MMD 80-200/18.5 | 25 | 18,5 | - | 42,0 | 41,0 | 40,0 | 38,5 | 37,0 | 35,0 | 33,0 | 30,5 | 28,0 | - | - | - | - |
| MMD 80-200/22 | 30 | 22 | - | 47,0 | 46,5 | 45,5 | 44,5 | 43,0 | 41,0 | 39,0 | 37,0 | 34,0 | - | - | - | - |
| MMD 80-200/30 | 40 | 30 | - | 55,0 | 54,0 | 53,0 | 52,0 | 51,0 | 49,0 | 47,0 | 45,0 | 43,0 | 37,0 | - | - | - |
| MMD 80-200/37 | 55 | 37 | - | 57,0 | 56,8 | 56,5 | 56,0 | 55,0 | 54,0 | 52,5 | 51,0 | 48,0 | 42,0 | - | - | - |
| MMD 80-250/37 | 55 | 37 | - | - | 67,5 | 67,0 | 66,2 | 65,0 | 63,3 | 61,0 | 58,3 | 55,0 | 47,0 | - | - | - |
| MMD 100-200/22 | 30 | 22 | - | - | - | 38,5 | 38,0 | 37,0 | 36,0 | 34,5 | 33,0 | 31,5 | 28,0 | 24,0 | - | - |
| MMD 100-200/30 | 40 | 30 | - | - | - | 47,0 | 46,3 | 45,6 | 44,8 | 43,7 | 42,4 | 41,0 | 38,0 | 34,6* | 30,0** | - |
| MMD 100-200/37 | 55 | 37 | - | - | - | 53,7 | 53,3 | 53,0 | 52,0 | 51,0 | 50,0 | 49,0 | 46,0 | 43,0* | 38,0** | - |

* The suction manometric height must not exceed 2 m

** Suction with positive head of 1 m

