

EBARA

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SELECTION CHART

50Hz

Rev. M

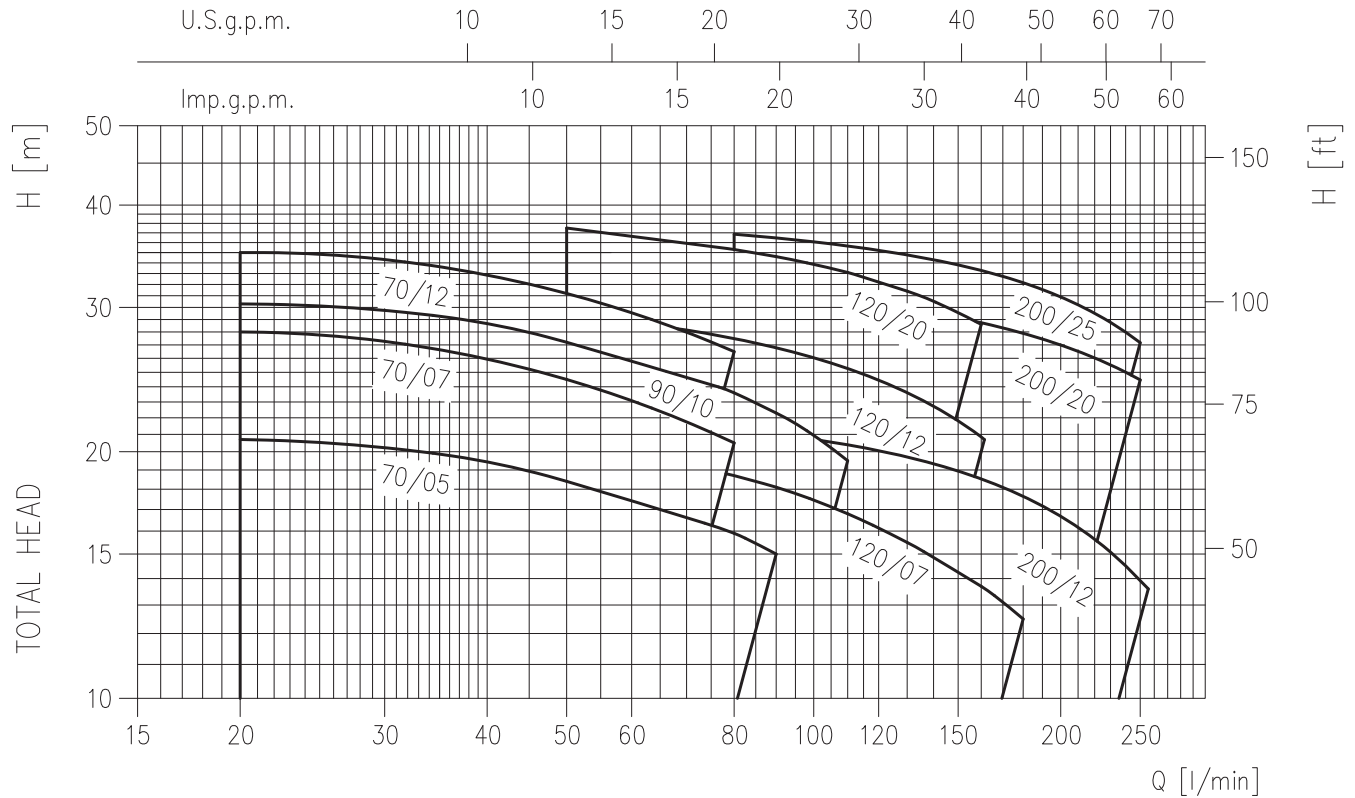
| PUMP | | |
|--------------------------------|------------------|---|
| Liquid Handled | Type of liquid | Clean water |
| | Temperature [°C] | min. -5 max. +60 (CD and CDE 70/05-70/07-90/10) max. +90 max. +110 (H-HS-HW-HSW) max. +120 (CDE 70/12, 120/07,120/12, 120/20, 200/12, 200/20, 200/25) |
| Maximum working pressure [MPa] | | 0.8 |
| Construction | Impeller | Closed centrifugal type |
| | Shaft seal type | Mechanical seal |
| | Bearing | Sealed ball bearing |
| Pipe Connection | Suction | G 1¼, (G 1½ CD 200) UNI ISO 228-1 |
| | Discharge | G 1 UNI ISO 228-1 |
| Material | Casing | EN 1.4301 (AISI 304) |
| | Impeller | EN 1.4301 (AISI 304) |
| | Casing cover | EN 1.4301 (AISI 304) |
| | Shaft seal | Ceramic/Carbon/NBR (for version see page 301) |
| | Shaft | AISI 303 (Wet extension) |
| | Bracket | EN 1.4301 (AISI 304) |
| Applicable standard of test | | ISO 9906 – Annex A |

| MOTOR | | |
|-------------------------------------|----------------------|--|
| Type | Electric - TEFC | |
| | Single Phase | Three Phase |
| Efficiency level (Reg. 640/2009) | - | - from 0.37 kW up to 0.55 kW IE2 from 0.75 kW up to 1.8 kW IE3 from 0.75 kW up to 1.8 kW |
| No. of Poles | 2 | |
| Rotation speed [min ⁻¹] | ≈ 2800 | |
| Insulation Class | F | |
| Protection degree (CEI EN 60034-5) | IP 55 | |
| Power rating | [kW] | 0.37 ÷ 1.5 |
| | [HP] | 0.5 ÷ 2 |
| Frequency [Hz] | 50 | |
| Voltage [V] | 230 ±10% | 230/400 ±10% |
| Capacitor | Built in | - |
| Over load protection | Built in | Provided by the user |
| Casing material | EN 1.4301 (AISI 304) | |
| Base material/motor support | EN 1.4301 (AISI 304) | |
| Dimensions of cable entry | PG11 | |

SELECTION CHART

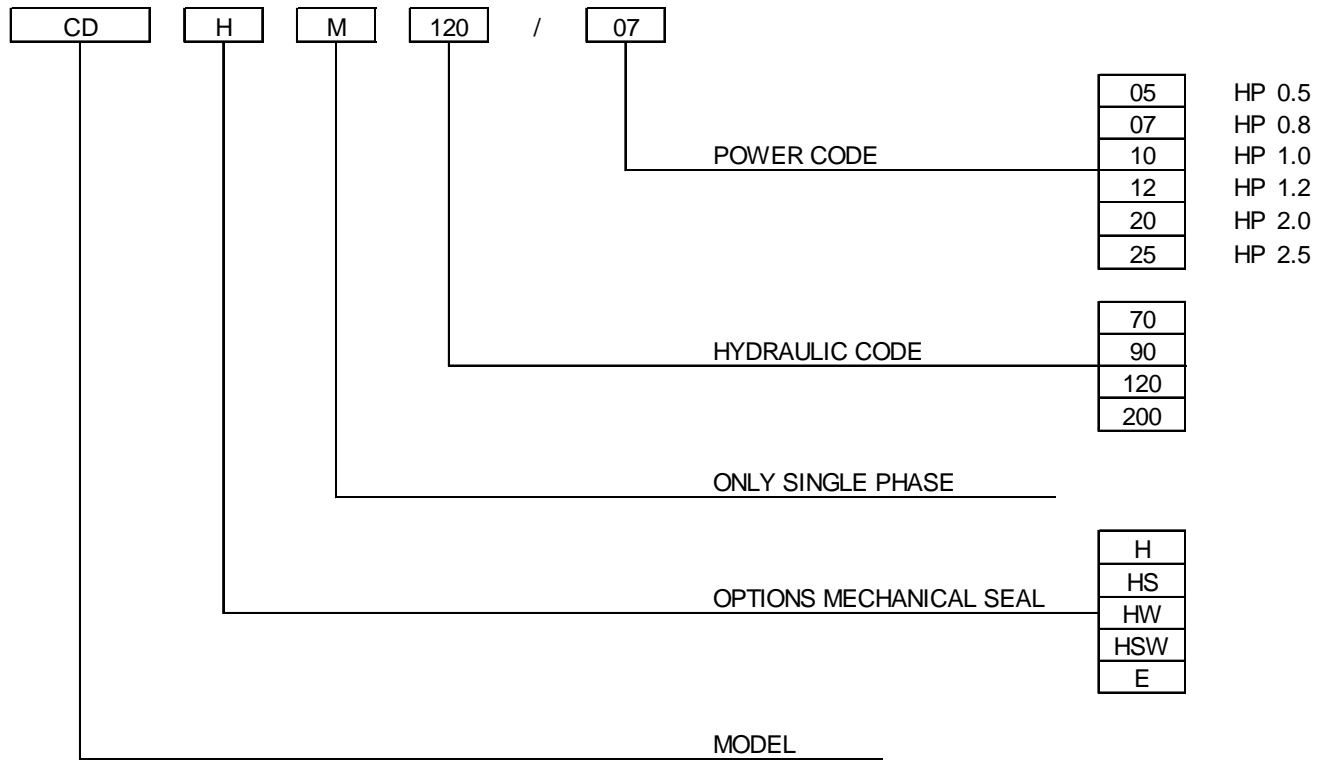
50Hz

Rev. M



| Pump type | | Power | | Q=Capacity | | | | | | | | | | | |
|--------------|-------------|-------|------|------------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| Single Phase | Three Phase | [kW] | [HP] | l/min | 0 | 20 | 50 | 80 | 90 | 110 | 130 | 160 | 180 | 210 | 250 |
| | | | | m ³ /h | 0 | 1.2 | 3.0 | 4.8 | 5.4 | 6.6 | 7.8 | 9.6 | 10.8 | 12.6 | 15.0 |
| | | | | H= Total manometric head in meters | | | | | | | | | | | |
| CDM 70/05 | CD 70/05 | 0.37 | 0.5 | 22 | 20.7 | 18.4 | 15.9 | 15 | - | - | - | - | - | - | - |
| CDM 70/07 | CD 70/07 | 0.55 | 0.8 | 30 | 28 | 24.5 | 20.5 | - | - | - | - | - | - | - | - |
| CDM 70/12 | CD 70/12 | 0.9 | 1.2 | 37 | 35 | 31.2 | 26.5 | | | | | | | | |
| CDM 90/10 | CD 90/10 | 0.75 | 1 | 32 | 30.3 | 27.2 | 23.6 | 22.3 | 19.5 | - | - | - | - | - | - |
| CDM 120/07 | CD 120/07 | 0.55 | 0.8 | 22.5 | - | 20.5 | 18.7 | 18.1 | 16.8 | 15.5 | 13.7 | 12.5 | - | - | - |
| CDM 120/12 | CD 120/12 | 0.9 | 1.2 | 31.2 | - | 29.3 | 27.5 | 26.8 | 25.2 | 23.6 | 21 | - | - | - | - |
| CDM 120/20 | CD 120/20 | 1.5 | 2 | 40.5 | - | 37.5 | 35.3 | 34.6 | 33.1 | 31.4 | 28.6 | - | - | - | - |
| CDM 200/12 | CD 200/12 | 0.9 | 1.2 | 22.8 | - | - | 21.3 | 21 | 20.4 | 19.7 | 18.5 | 17.6 | 16 | 14 | |
| CDM 200/20 | CD 200/20 | 1.5 | 2 | 33 | - | - | 31.5 | 31.2 | 30.6 | 30 | 28.7 | 27.9 | 26.5 | 24.5 | |
| - | CD 200/25 | 1.8 | 2.5 | 39.4 | - | - | 36.8 | 36.5 | 35.6 | 34.7 | 33.3 | 32 | 30 | 27.2 | |

TYPE KEY



PERFORMANCE CURVE SPECIFICATIONS

The specifications below qualify the curves shown on the following pages.

Tolerances according to ISO 9906 Annex A

The curves refer to effective speed of asynchronous motors at 50 Hz

Measurements were carried out with clean water at 20°C of temperature and with a kinematic viscosity of $\nu = 1 \text{ mm}^2/\text{s}$ (1 cSt)

The NPSH curve is an average curve obtained in the same conditions of performance curves.

The continuous curves indicate the recommended working range. The dotted curve is only a guide.

In order to avoid the risk of over-heating, the pumps should not be used at a flow rate below 10% of best efficiency point.

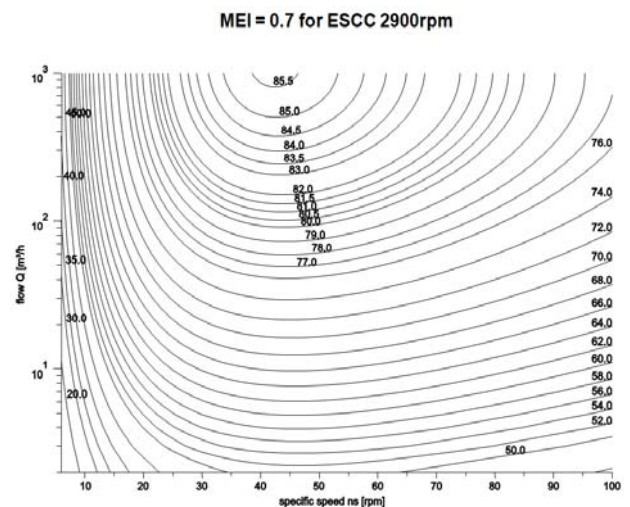
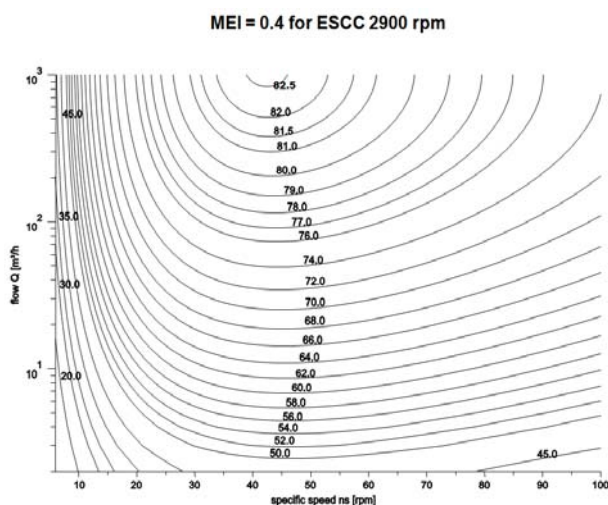
Symbols explanation:

- Q = volume flow rate
- H = total head
- P_2 = pump power input (shaft power)
- η = pump efficiency
- NPSH = net positive suction head required by the pump
- MEI = minimum efficiency index

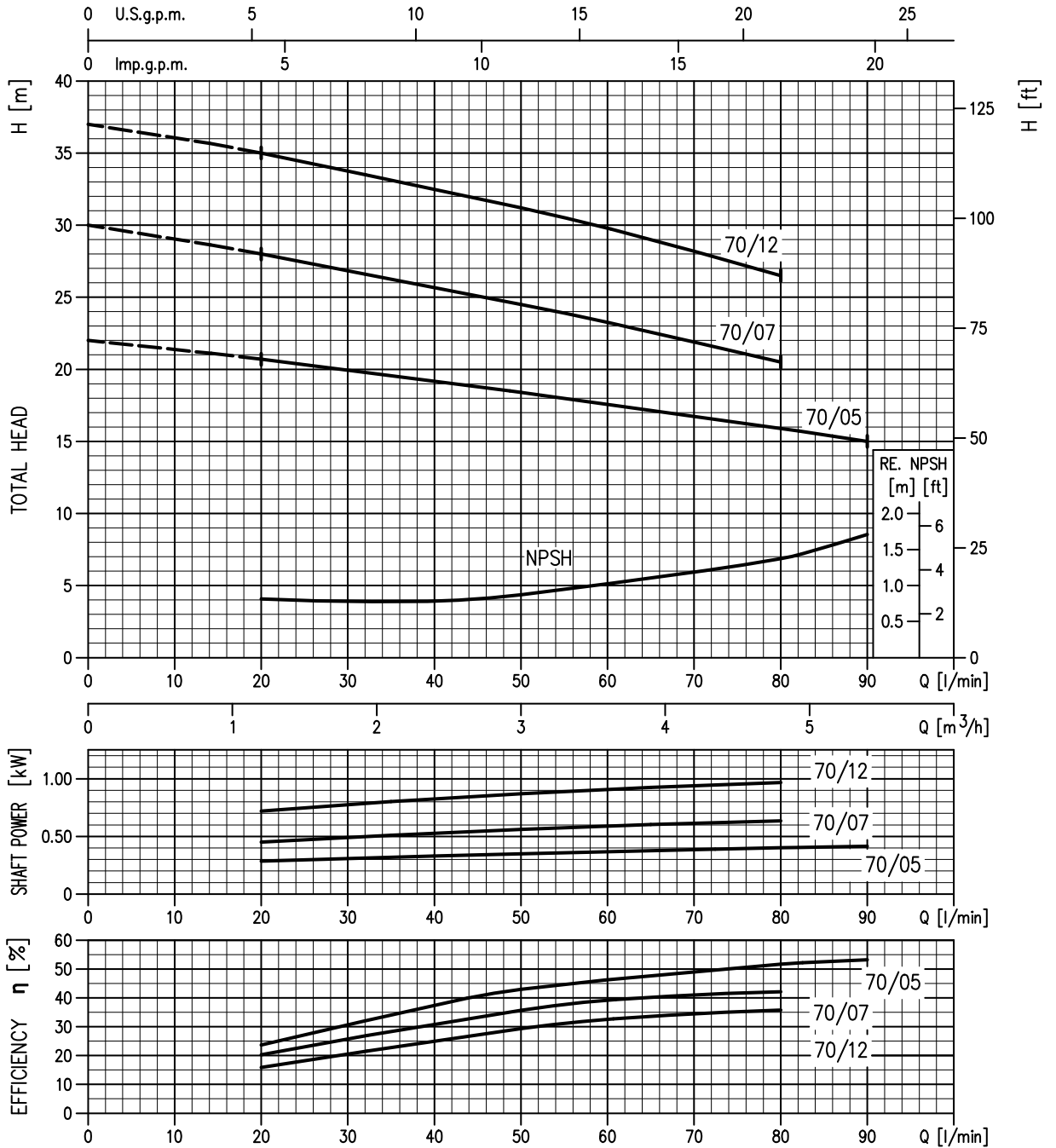
The minimum efficiency index (MEI) is a measure of the quality of a pump size in respect to its mean efficiency. The minimum efficiency index is based on the hydraulic efficiency and on the head at the best efficiency point.

The efficiency of a pump with trimmed impeller is usually lower than that of a pump with the full impeller diameter. The trimming of the impeller will adapt the pump to a fixed duty point, leading to reduced energy consumption. The minimum efficiency index (MEI) is based on the full impeller diameter.

The operation of these water pumps with variable duty points may be more efficient and economic when controlled, for example, by the use of a variable speed drive that matches the pump duty to the system.

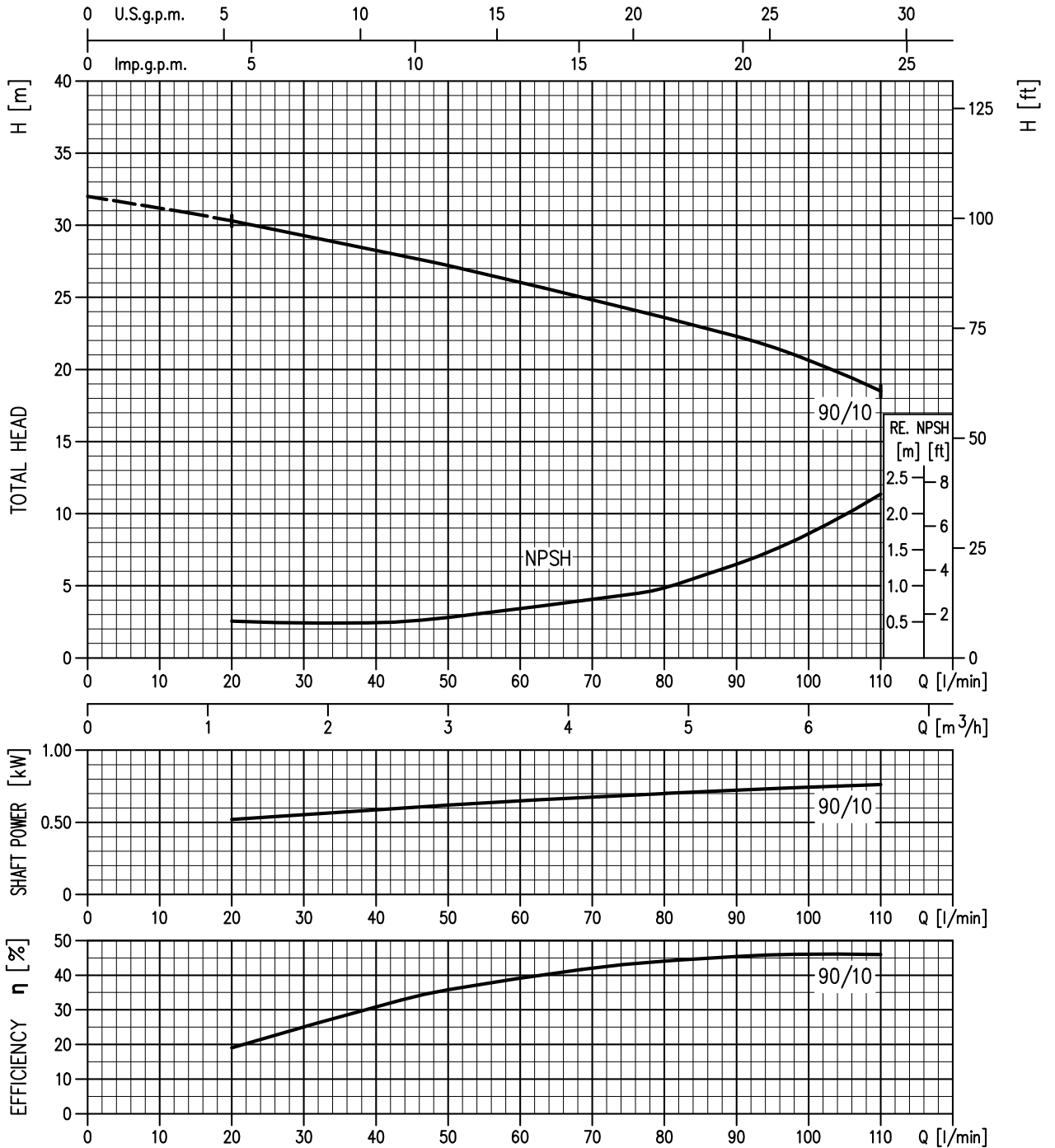


CD 70/05 (0.37 kW) - Impeller diameter = 132 mm
 CD 70/07 (0.55 kW) - Impeller diameter = 157 mm
 CD 70/12 (0.90 kW) - Impeller diameter = 176 mm



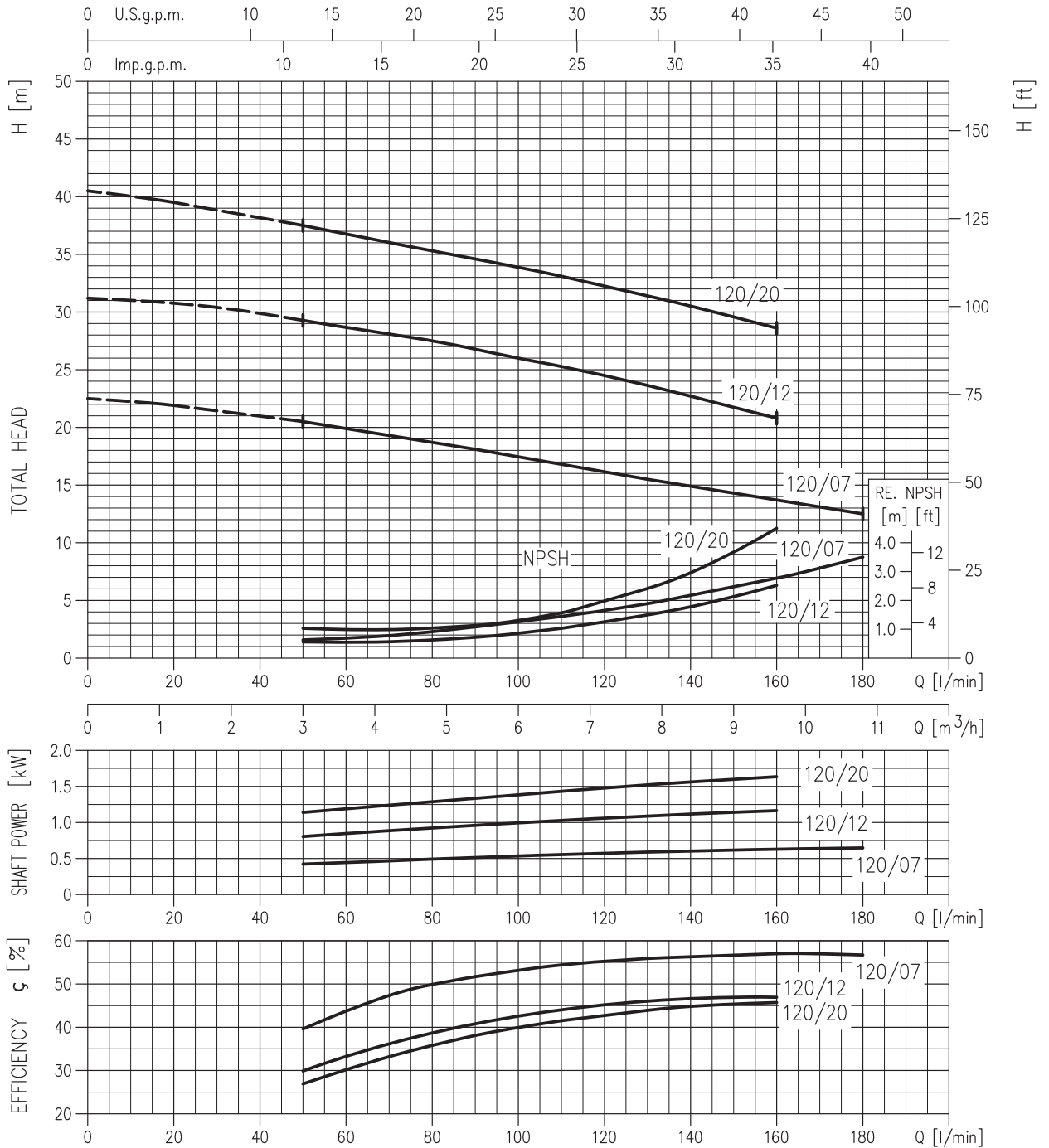
Rotation speed $\approx 2800 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

CD 90/10 (0.75 kW) MEI > 0.50 - Impeller diameter = 157 mm



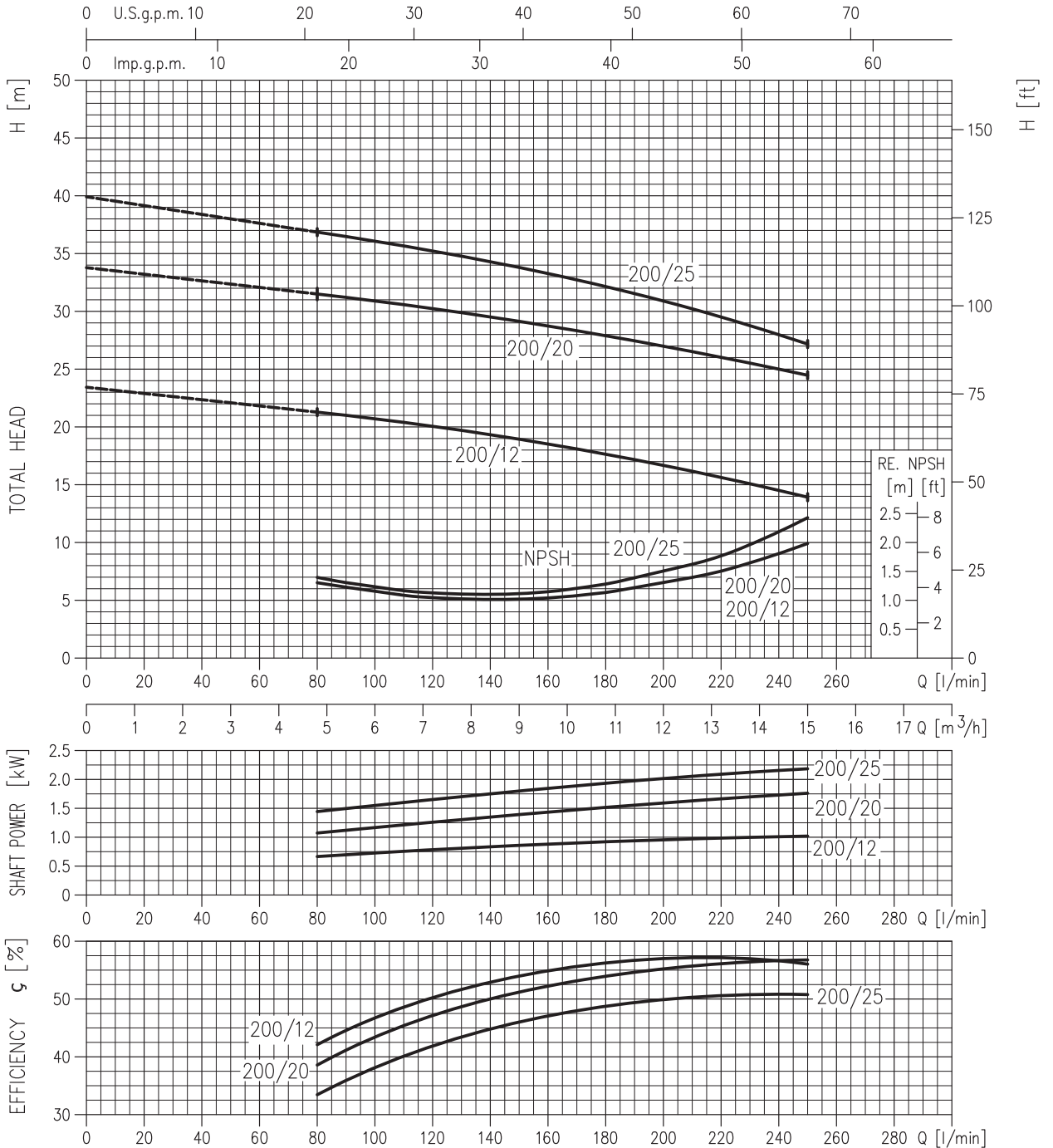
Rotation speed $\approx 2800 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

CD 120/07 (0.75 kW) MEI > 0.50 - Impeller diameter = 132 mm
 CD 120/12 (0.90 kW) MEI > 0.40 - Impeller diameter = 157 mm
 CD 120/20 (1.50 kW) MEI > 0.40 - Impeller diameter = 176 mm



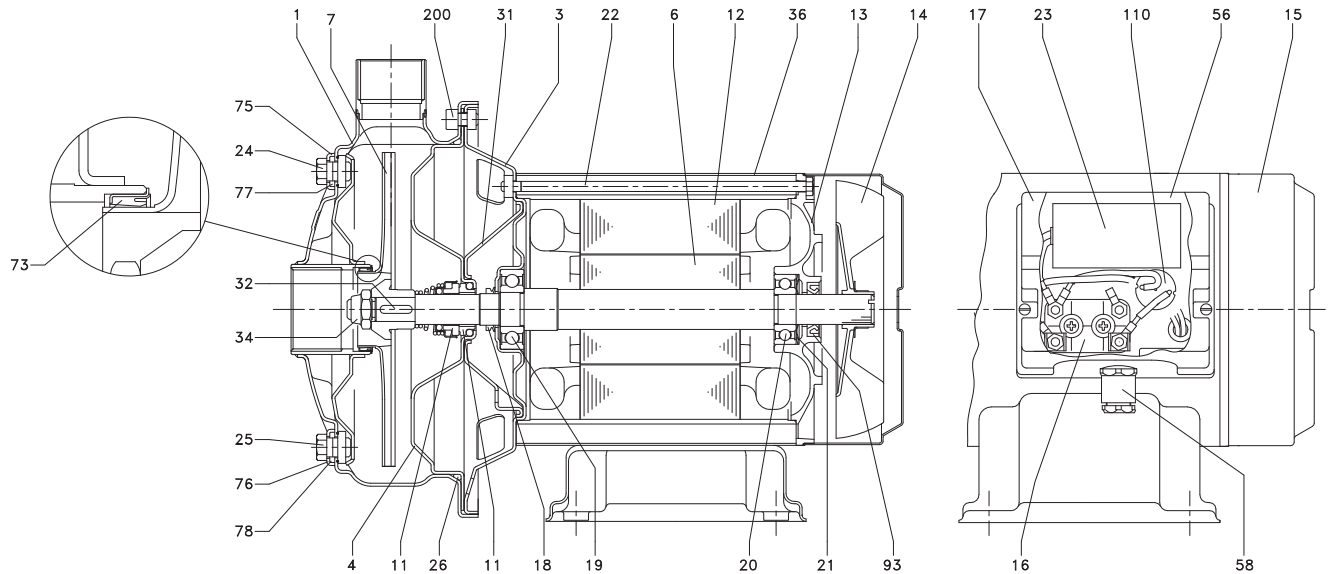
Rotation speed $\approx 2800 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

CD 200/12 (0.90 kW) MEI > 0.50 - Impeller diameter = 132 mm
 CD 200/20 (1.50 kW) MEI > 0.60 - Impeller diameter = 157 mm
 CD 200/25 (1.80 kW) MEI > 0.40 - Impeller diameter = 176 mm



Rotation speed $\approx 2800 \text{ min}^{-1}$
 Test standard: ISO 9906 – Annex A

SECTIONAL VIEW CD 70/05 - 70/07 - 90/10



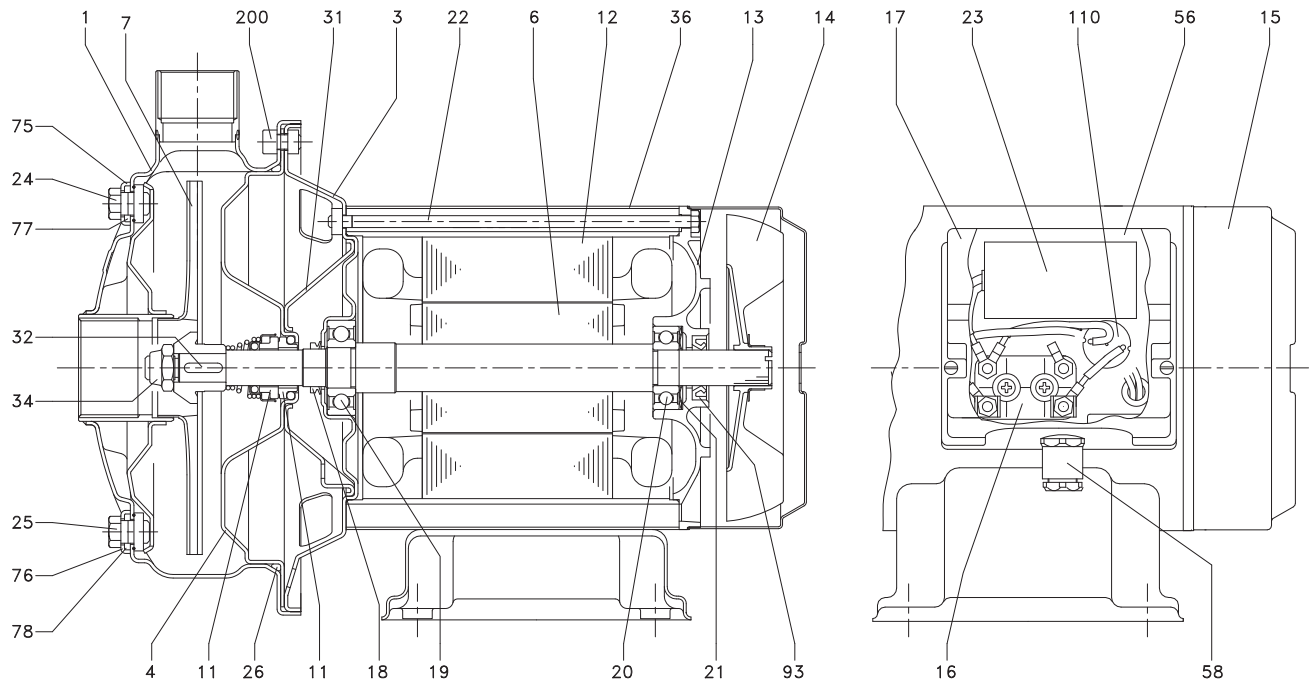
| N° | PART NAME | MATERIAL | DIMENSION | STANDARD | Q.TY | N° | PART NAME | MATERIAL | DIMENSION | STANDARD | Q.TY |
|----|-------------------------|---------------------------------------|--------------|----------|------|-----|-----------------|-----------------------|-----------|----------|------|
| 1 | Casing | AISI 304 | | | 1 | 25 | Drain plug | AISI 304 | | | 1 |
| 3 | Motor bracket | AISI 304 | | | 1 | 26 | O-ring [2] | NBR | | | 1 |
| 4 | Casing cover | AISI 304 | | | 1 | 31 | Thrust flange | AISI 304 | | | 1 |
| 6 | Shaft with rotor | AISI 303 (Wet extension) | | | 1 | 32 | Key | AISI 316 | 4x4x14 | UNI 6604 | 1 |
| 7 | Impeller | AISI 304 | | | 1 | 34 | Impeller nut | Stainless steel A2-70 | M10X1,25 | UNI 7474 | 1 |
| 11 | Mechanical seal | Ceramic/Carbon/NBR | see page 301 | | 1 | 36 | Motor casing | AISI 304 | | | 1 |
| 12 | Motor frame with stator | - | | | 1 | 56 | Box gasket | NBR | | | 1 |
| 13 | Motor cover | Aluminium | | | 1 | 58 | Cable entry | - | | | 1 |
| 14 | Fan | PA | | | 1 | 73 | Casing ring [3] | NBR | | | 1 |
| 15 | Fan cover | AISI 304 | | | 1 | 75 | Washer | AISI 304 | | | 1 |
| 16 | Terminal board | - | | | 1 | 76 | Washer | AISI 304 | | | 1 |
| 17 | Terminal box cover | PA66 glass fibre reinforced class V-0 | | | 1 | 77 | O-ring [2] | NBR | | | 1 |
| 18 | Splash ring | NBR | | | 1 | 78 | O-ring [2] | NBR | | | 1 |
| 19 | Pump side ball bearing | - | | | 1 | 93 | Lip seal | NBR | | | 1 |
| 20 | Fan side ball bearing | - | | | 1 | 110 | Protector [1] | - | | | 1 |
| 21 | Adjusting ring | Steel C70 | | | 1 | 200 | Screw | Stainless steel A2-70 | M6X12 | UNI 5931 | 8 |
| 22 | Tie rod | Fe 420 Galvanized | | | 4 | | | | | | |
| 23 | Capacitor [1] | - | | | 1 | | | | | | |
| 24 | Priming plug | AISI 304 | | | 1 | | | | M8X14 | | |

[1] Only for single phase

[2] FPM for H-HS-HW-HSW
EPDM for E

[3] FPM for CDH 70/05, CDHS 70/05, CDHW 70/05, CDHSW 70/05, CDH 70/07, CDHS 70/07, CDHW 70/07, CDHSW 70/07, CDH 90/10, CDHS 90/10, CDHW 90/10, CDHSW 90/10
NBR for CDE 70/05, 70/07, 90/10

SECTIONAL VIEW CD 70/12 - 120/07 - 120/20

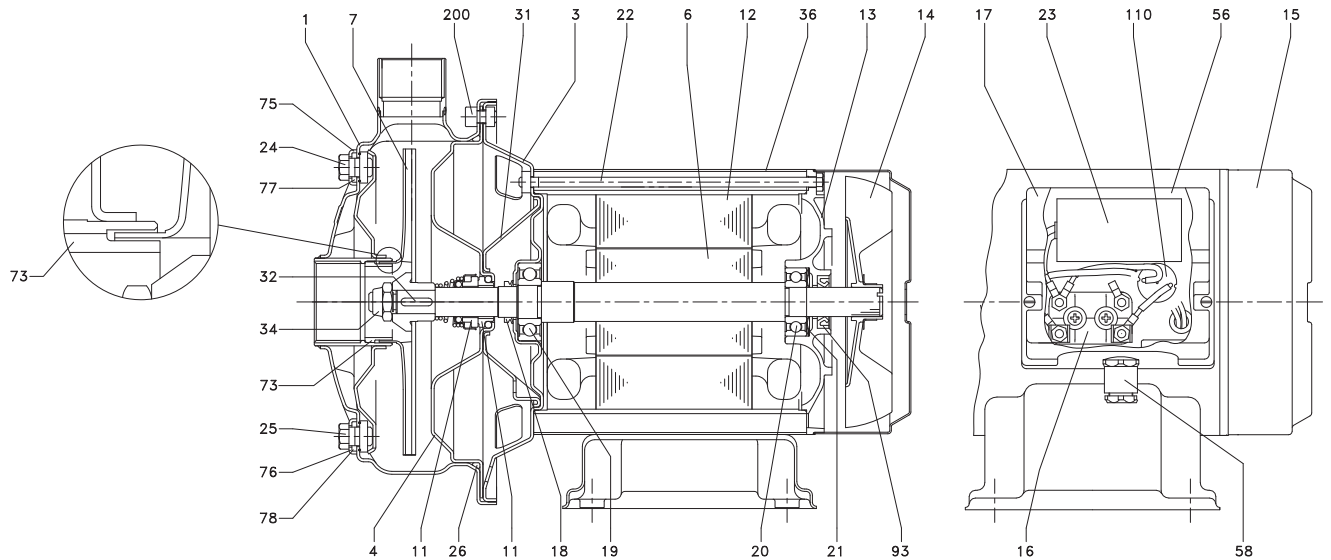


| N° | PART NAME | MATERIAL | DIMENSION | STANDARD | Q.TY | N° | PART NAME | MATERIAL | DIMENSION | STANDARD | Q.TY |
|----|-------------------------|---------------------------------------|--------------|----------|------|-----|---------------|-----------------------|-----------------------|----------|----------|
| 1 | Casing | AISI 304 | | | 1 | 25 | Drain plug | AISI 304 | | | 1 |
| 3 | Motor bracket | AISI 304 | | | 1 | 26 | O-ring [2] | NBR | | | 1 |
| 4 | Casing cover | AISI 304 | | | 1 | 31 | Thrust flange | AISI 304 | | | 1 |
| 6 | Shaft with rotor | AISI 303 (Wet extension) | | | 1 | 32 | Key | AISI 316 | 4x4x14 | UNI 6604 | 1 |
| 7 | Impeller | AISI 304 | | | 1 | 34 | Impeller nut | Stainless steel A2-70 | M10X1,25 | UNI 7474 | 1 |
| 11 | Mechanical seal | Ceramic/Carbon/NBR | see page 301 | | 1 | 36 | Motor casing | AISI 304 | | | 1 |
| 12 | Motor frame with stator | - | | | 1 | 56 | Box gasket | NBR | | | 1 |
| 13 | Motor cover | Aluminium | | | 1 | 58 | Cable entry | - | | | 1 |
| 14 | Fan | PA | | | 1 | 73 | Casing ring | - | | | 1 |
| 15 | Fan cover | AISI 304 | | | 1 | 75 | Washer | AISI 304 | | | 1 |
| 16 | Terminal board | - | | | 1 | 76 | Washer | AISI 304 | | | 1 |
| 17 | Terminal box cover | PA66 glass fibre reinforced class V-0 | | | 1 | 77 | O-ring [2] | NBR | | | 1 |
| 18 | Splash ring | NBR | | | 1 | 78 | O-ring [2] | NBR | | | 1 |
| 19 | Pump side ball bearing | - | | | 1 | 93 | Lip seal | NBR | | | 1 |
| 20 | Fan side ball bearing | - | | | 1 | 110 | Protector [1] | - | | | 1 |
| 21 | Adjusting ring | Steel C70 | | | 1 | | | | | | |
| 22 | Tie rod | Fe 420 Galvanized | | | 4 | | | | | | |
| 23 | Capacitor [1] | - | | | 1 | 200 | Screw | 120/07 | Stainless steel A2-70 | M6X12 | UNI 5931 |
| 24 | Priming plug | AISI 304 | | | 1 | | | | | | |

[1] Only for single phase

[2] FPM for H-HS-HW-HSW
EPDM for E

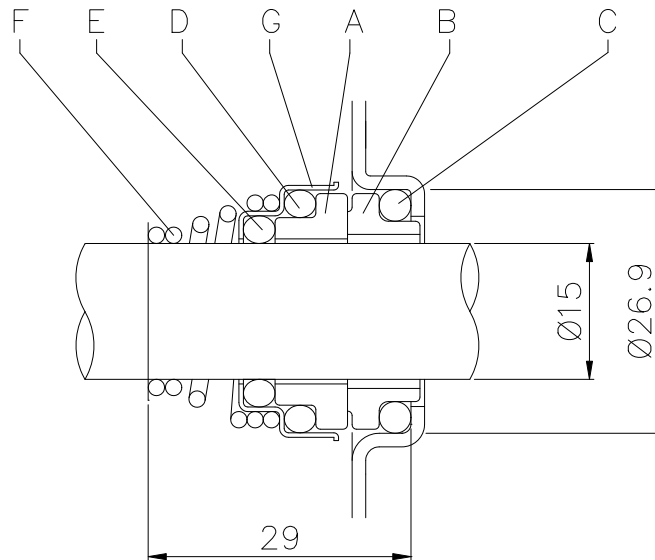
SECTIONAL VIEW CD 120/12 - CD 200/12 - CD 200/20 - CD 200/25



| N° | PART NAME | MATERIAL | DIMENSION | STANDARD | Q.TY | N° | PART NAME | MATERIAL | DIMENSION | STANDARD | Q.TY |
|----|-------------------------|---------------------------------------|--------------|----------|------|-----|---------------|-----------------------|-----------|----------|------|
| 1 | Casing | AISI 304 | | | 1 | 25 | Drain plug | AISI 304 | | | 1 |
| 3 | Motor bracket | AISI 304 | | | 1 | 26 | O-ring [2] | NBR | | | 1 |
| 4 | Casing cover | AISI 304 | | | 1 | 31 | Thrust flange | AISI 304 | | | 1 |
| 6 | Shaft with rotor | AISI 303 (Wet extension) | | | 1 | 32 | Key | AISI 316 | 4x4x14 | UNI 6604 | 1 |
| 7 | Impeller | AISI 304 | | | 1 | 34 | Impeller nut | Stainless steel A2-70 | M10X1,25 | UNI 7474 | 1 |
| 11 | Mechanical seal | Ceramic/Carbon/NBR | see page 301 | | 1 | 36 | Motor casing | AISI 304 | | | 1 |
| 12 | Motor frame with stator | - | | | 1 | 56 | Box gasket | NBR | | | 1 |
| 13 | Motor cover | Aluminium | | | 1 | 58 | Cable entry | - | | | 1 |
| 14 | Fan | PA | | | 1 | 73 | Double ring | AISI 304 | | | 1 |
| 15 | Fan cover | AISI 304 | | | 1 | 75 | Washer | AISI 304 | | | 1 |
| 16 | Terminal board | - | | | 1 | 76 | Washer | AISI 304 | | | 1 |
| 17 | Terminal box cover | PA66 glass fibre reinforced class V-0 | | | 1 | 77 | O-ring [2] | NBR | | | 1 |
| 18 | Splash ring | NBR | | | 1 | 78 | O-ring [2] | NBR | | | 1 |
| 19 | Pump side ball bearing | - | | | 1 | 93 | Lip seal | NBR | | | 1 |
| 20 | Fan side ball bearing | - | | | 1 | 110 | Protector [1] | - | | | 1 |
| 21 | Adjusting ring | Steel C70 | | | 1 | | | | | | |
| 22 | Tie rod | Fe 420 Galvanized | | | 4 | 200 | Screw | Stainless steel A2-70 | M6X12 | UNI 5931 | 8 |
| 23 | Capacitor [1] | - | | | 1 | | | | | | |
| 24 | Priming plug | AISI 304 | | | 1 | | | | M8X14 | | |

- [1] Only for single phase
 [2] FPM for H-HS-HW-HSW
 EPDM for E

MECHANICAL SEAL



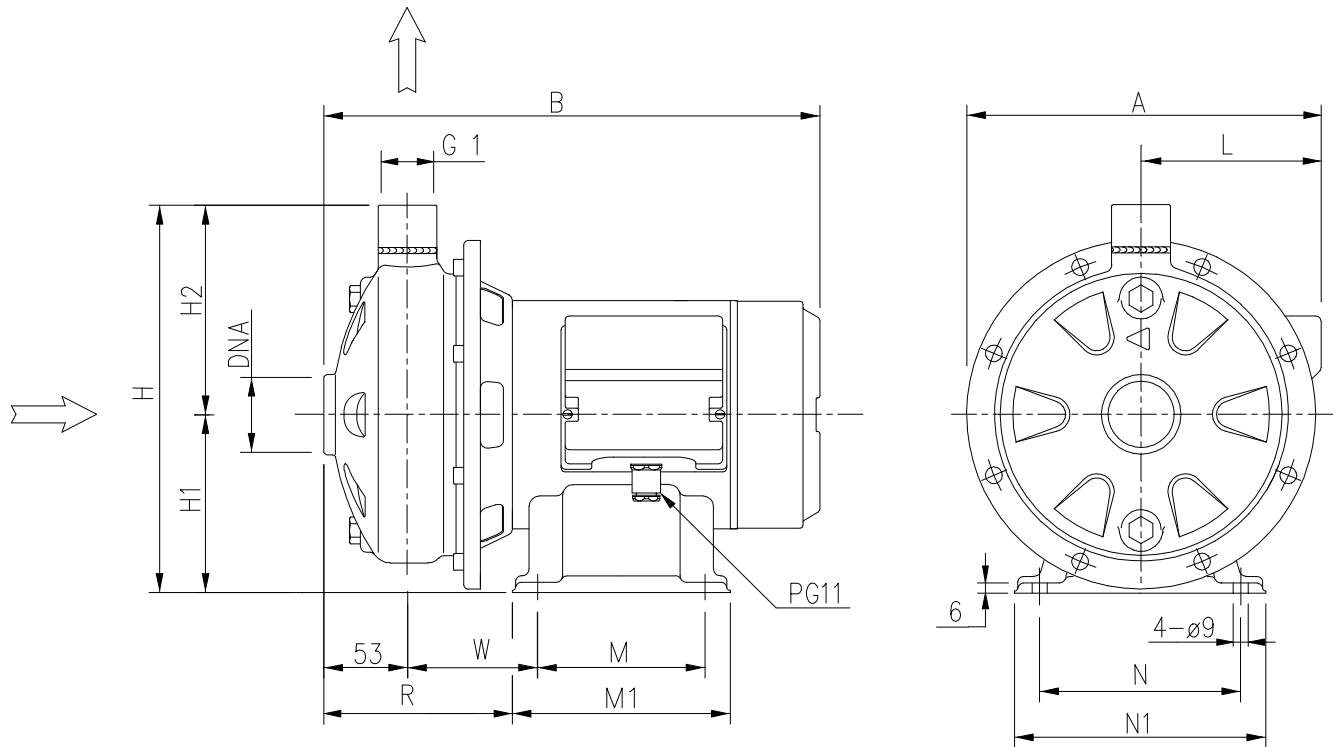
| REF | PART NAME | MATERIAL | | | | | |
|-----|----------------------|-----------------------|-----------------|-----------------|------------------|------------------|-----------------|
| | | Standard version (CD) | (CDH) | (CDHS) | Optional (CDHW) | (CDHSW) | (CDE) |
| A | Rotary seal ring | Ceramic | Ceramic | Silicon carbide | Tungsten carbide | Silicon carbide | Ceramic |
| B | Stationary seal ring | Carbon graphite | Carbon graphite | Silicon carbide | Tungsten carbide | Tungsten carbide | Carbon graphite |
| C | O Ring | NBR | FPM | FPM | FPM | FPM | EPDM |
| D | O Ring | NBR | FPM | FPM | FPM | FPM | EPDM |
| E | O Ring | NBR | FPM | FPM | FPM | FPM | EPDM |
| F | Self driving spring | AISI 316 | AISI 316 | AISI 316 | AISI 316 | AISI 316 | AISI 316 |
| G | Frame | AISI 304 | AISI 304 | AISI 316 | AISI 316 | AISI 316 | AISI 316 |

BEARINGS

| Pump type | | Ball Bearing | | | |
|--------------|-------------|--------------|---------------|-----------|--------------|
| Single Phase | Three Phase | Pump side | (*) Pump side | Fan side | (*) Fan side |
| CDM 70/05 | CD 70/05 | 6203 2RSH | - | 6202 2RSH | - |
| CDM 70/07 | CD 70/07 | 6203 2RSH | - | 6202 2RSH | - |
| CDM 70/12 | CD 70/12 | 6203 2RSH | 6203-ZZ C3 | 6202 2RSH | 6202-ZZ C3 |
| CDM 90/10 | CD 90/10 | 6203 2RSH | 6203-ZZ C3 | 6202 2RSH | 6202-ZZ C3 |
| CDM 120/07 | CD 120/07 | 6203 2RSH | - | 6202 2RSH | - |
| CDM 120/12 | CD 120/12 | 6203 2RSH | 6203-ZZ C3 | 6202 2RSH | 6202-ZZ C3 |
| CDM 120/20 | CD 120/20 | 6204 2RSH | 6204-ZZ C3 | 6203 2RSH | 6203-ZZ C3 |
| CDM 200/12 | CD 200/12 | 6203 2RSH | 6203-ZZ C3 | 6202 2RSH | 6202-ZZ C3 |
| CDM 200/20 | CD 200/20 | 6204 2RSH | 6204-ZZ C3 | 6203 2RSH | 6203-ZZ C3 |
| - | CD 200/25 | 6204 2RSH | 6204-ZZ C3 | 6203 2RSH | 6203-ZZ C3 |

(*) Only for IE3 Motors

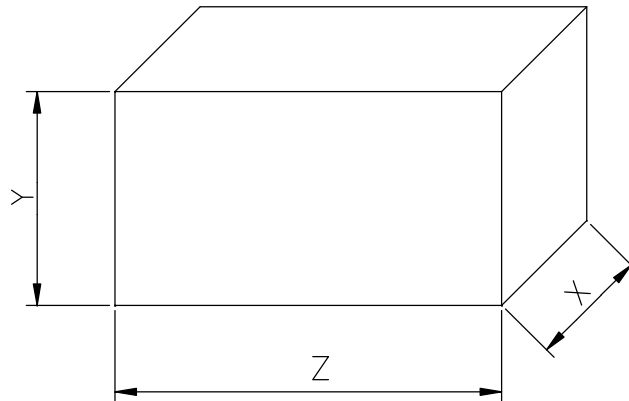
PUMP



| Pump type CDM-CD | Dimensions [mm] | | | | | | | | | | | | | | | | | | | Weight [kgf] | | |
|---------------------|-----------------|------|------|------|-----|-------|-----|-------|------|------|------|------|------|------|-----|-----|-------|------|--------|--------------|------|------|
| | A | | B | | | H | H1 | H2 | L | | M | | M1 | | N | N1 | R | W | DNA | [1-] | [3-] | (*) |
| | [1-] | [3-] | [1-] | [3-] | (*) | | | | [1-] | [3-] | [1-] | [3-] | [1-] | [3-] | | | | | | | | |
| 70/05 | 209 | 208 | 298 | 298 | - | 229.5 | 106 | 123.5 | 105 | 104 | 100 | 100 | 130 | 130 | 120 | 150 | 115.5 | 77.5 | G1 1/4 | 8.7 | 8.7 | - |
| 70/07 | 209 | 208 | 298 | 298 | - | 229.5 | 106 | 123.5 | 105 | 104 | 100 | 100 | 130 | 130 | 120 | 150 | 115.5 | 77.5 | G1 1/4 | 10 | 10 | - |
| 70/12 | 208 | 208 | 328 | 338 | 338 | 229.5 | 106 | 123.5 | 104 | 104 | 100 | 100 | 130 | 130 | 120 | 150 | 130.5 | 92.5 | G1 1/4 | 13.2 | 13.7 | 13.7 |
| 90/10 | 209 | 208 | 328 | 328 | 328 | 229.5 | 106 | 123.5 | 105 | 104 | 100 | 100 | 130 | 130 | 120 | 150 | 130.5 | 92.5 | G1 1/4 | 11.5 | 11.6 | 11.6 |
| 120/07 | 209 | 208 | 298 | 298 | - | 229.5 | 106 | 123.5 | 105 | 104 | 100 | 100 | 130 | 130 | 120 | 150 | 115.5 | 77.5 | G1 1/4 | 10 | 10.5 | - |
| 120/12 | 208 | 208 | 328 | 338 | 338 | 229.5 | 106 | 123.5 | 104 | 104 | 100 | 100 | 130 | 130 | 120 | 150 | 130.5 | 92.5 | G1 1/4 | 12.3 | 12.9 | 12.9 |
| 120/20 | 232 | 232 | 356 | 366 | 376 | 250 | 118 | 132 | 116 | 116 | 120 | 120 | 150 | 150 | 140 | 170 | 133 | 95 | G1 1/4 | 15.3 | 17.4 | 18.3 |
| 200/12 | 208 | 208 | 328 | 338 | 338 | 229.5 | 106 | 123.5 | 104 | 104 | 100 | 100 | 130 | 130 | 120 | 150 | 130.5 | 92.5 | G1 1/2 | 12 | 12.6 | 12.6 |
| 200/20 | 213 | 213 | 356 | 366 | 376 | 229.5 | 106 | 123.5 | 109 | 109 | 120 | 120 | 150 | 150 | 140 | 170 | 133 | 95 | G1 1/2 | 15.8 | 16.6 | 17.5 |
| 200/25 | - | 232 | - | 366 | 376 | 250 | 118 | 132 | - | 116 | - | 120 | - | 150 | 140 | 170 | 138 | 100 | G1 1/2 | - | 17.4 | 18.3 |

[1-] Single phase
 [3-] Three phase
 (*) Only for IE3 Motors

PACKING



| Pump type | | Packing [mm] | | | | | | Weight [kgf] | | |
|--------------|-------------|--------------|-----|-----|-----|-----|-----|--------------|------|------|
| Single Phase | Three Phase | X | | Y | | Z | | [1~] | [3~] | (*) |
| | | | (*) | | (*) | | (*) | | | |
| CDM 70/05 | CD 70/05 | 239 | - | 250 | - | 362 | - | 9.6 | 9.6 | - |
| CDM 70/07 | CD 70/07 | 239 | - | 250 | - | 362 | - | 10.8 | 10.8 | - |
| CDM 70/12 | CD 70/12 | 244 | 244 | 279 | 279 | 382 | 382 | 13.8 | 14.6 | 14.6 |
| CDM 90/10 | CD 90/10 | 239 | 239 | 250 | 250 | 362 | 362 | 12.2 | 12.4 | 12.4 |
| CDM 120/07 | CD 120/07 | 239 | - | 250 | - | 362 | - | 10.5 | 11.3 | - |
| CDM 120/12 | CD 120/12 | 239 | 239 | 250 | 250 | 362 | 362 | 13 | 13.7 | 13.7 |
| CDM 120/20 | CD 120/20 | 244 | 252 | 279 | 279 | 382 | 402 | 17.5 | 18.3 | 19.2 |
| CDM 200/12 | CD 200/12 | 239 | 239 | 250 | 250 | 362 | 362 | 12.8 | 13.4 | 13.4 |
| CDM 200/20 | CD 200/20 | 239 | 252 | 250 | 279 | 362 | 402 | 16.6 | 17.6 | 18.5 |
| - | CD 200/25 | 239 | 252 | 250 | 279 | 362 | 402 | - | 18.4 | 19.3 |

[1~] Single phase

[3~] Three phase

(*) Only for IE3 Motors

MOTOR DATA

| Pump type | | Power | | Efficiency | | Capacitor | | Efficiency (% load) | | | Input | | Full load current | | | Locked rotor current | | |
|--------------|-------------|-------|------|--------------|-------------|--------------|-------------|---------------------|------|------|--------------|-------------|-------------------|-------------|--------------|----------------------|--------------|-------------|
| Single Phase | Three Phase | [kW] | [HP] | Single Phase | Three Phase | Single Phase | Three Phase | Three phase | | | Single Phase | Three Phase | Single Phase | Three Phase | Single Phase | Three Phase | Single Phase | Three Phase |
| | | | | | | [μF] | [V] | 50% | 75% | 100% | Phase | Phase | 230 V | 230 V | 400 V | 230 V | 230 V | 400 V |
| CDM 70/05 | CD 70/05 | 0.37 | 0.5 | - | - | 12.5 | 450 | - | - | - | 0.75 | 0.68 | 3.4 | 2.4 | 1.4 | 10.1 | 11.0 | 6.15 |
| CDM 70/07 | CD 70/07 | 0.55 | 0.75 | - | - | 16 | 450 | - | - | - | 1.1 | 1.0 | 5.0 | 3.5 | 2.0 | 16.1 | 17.0 | 9.7 |
| CDM 70/12 | CD 70/12 | 0.9 | 1.2 | - | IE2 | 31.5 | 450 | 79.0 | 81.7 | 81.6 | 1.5 | 1.35 | 6.5 | 4.3 | 2.5 | 24.5 | 31.0 | 17.8 |
| - | CD 70/12 | 0.9 | 1.2 | - | IE3 | - | - | 81.7 | 83.1 | 82.4 | - | 1.34 | - | 4.3 | 2.5 | - | 28.8 | 16.6 |
| CDM 90/10 | CD 90/10 | 0.75 | 1.0 | - | IE2 | 20 | 450 | 77.2 | 80.9 | 81.3 | 1.2 | 1.05 | 5.6 | 3.3 | 1.9 | 22.7 | 22.0 | 12.9 |
| - | CD 90/10 | 0.75 | 1.0 | - | IE3 | - | - | 80.9 | 82.3 | 82.1 | - | 0.91 | - | 3.0 | 1.7 | - | 19.7 | 11.4 |
| CDM 120/07 | CD 120/07 | 0.55 | 0.75 | - | - | 16 | 450 | - | - | - | 1.0 | 1.0 | 4.6 | 3.2 | 1.85 | 16.1 | 17.0 | 9.7 |
| CDM 120/12 | CD 120/12 | 0.9 | 1.2 | - | IE2 | 31.5 | 450 | 79.0 | 81.7 | 81.6 | 1.6 | 1.45 | 6.9 | 4.5 | 2.6 | 25 | 31.0 | 17.8 |
| - | CD 120/12 | 0.9 | 1.2 | - | IE3 | - | - | 81.7 | 83.1 | 82.4 | - | 1.34 | - | 4.3 | 2.5 | - | 28.8 | 16.6 |
| CDM 120/20 | CD 120/20 | 1.5 | 2.0 | - | IE2 | 40 | 450 | 80.3 | 83.4 | 83.8 | 2.1 | 2.09 | 9.3 | 7.0 | 4.0 | 43 | 34.3 | 20.0 |
| - | CD 120/20 | 1.5 | 2.0 | - | IE3 | - | - | 84.2 | 86.8 | 86.9 | - | 2.01 | - | 7.1 | 4.1 | - | 66.6 | 38.4 |
| CDM 200/12 | CD 200/12 | 0.9 | 1.2 | - | IE2 | 31.5 | 450 | 79.0 | 81.7 | 81.6 | 1.4 | 1.35 | 6.3 | 4.3 | 2.5 | 25 | 31.0 | 17.8 |
| - | CD 200/12 | 0.9 | 1.2 | - | IE3 | - | - | 81.7 | 83.1 | 82.4 | - | 1.34 | - | 4.3 | 2.5 | - | 28.8 | 16.6 |
| CDM 200/20 | CD 200/20 | 1.5 | 2.0 | - | IE2 | 40 | 450 | 80.3 | 83.4 | 83.8 | 2.3 | 2.22 | 10.2 | 7.4 | 4.3 | 43 | 34.3 | 20.0 |
| - | CD 200/20 | 1.5 | 2.0 | - | IE3 | - | - | 84.2 | 86.8 | 86.9 | - | 2.01 | - | 7.1 | 4.1 | - | 66.6 | 38.4 |
| - | CD 200/25 | 1.85 | 2.5 | - | IE2 | - | - | 83.0 | 84.4 | 83.8 | - | 2.87 | - | 8.7 | 5.0 | - | 59.0 | 34.3 |
| - | CD 200/25 | 1.85 | 2.5 | - | IE3 | - | - | 86.2 | 87.0 | 86.0 | - | 2.55 | - | 8.2 | 4.7 | - | 66.6 | 38.43 |

NOISE DATA

| Pump type | | Power | | L _{pA} - dB(A) * |
|--------------|-------------|-------|------|---------------------------|
| Single Phase | Three Phase | [kW] | [HP] | |
| CDM 70/05 | CD 70/05 | 0.37 | 0.5 | <70 |
| CDM 70/07 | CD 70/07 | 0.55 | 0.75 | |
| CDM 70/12 | CD 70/12 | 0.9 | 1.2 | |
| CDM 90/10 | CD 90/10 | 0.75 | 1.0 | |
| CDM 120/07 | CD 120/07 | 0.55 | 0.75 | |
| CDM 120/12 | CD 120/12 | 0.9 | 1.2 | |
| CDM 120/20 | CD 120/20 | 1.5 | 2.0 | |
| CDM 200/12 | CD 200/12 | 0.9 | 1.2 | |
| CDM 200/20 | CD 200/20 | 1.5 | 2.0 | |
| - | CD 200/25 | 1.85 | 2.5 | |

* Mean value of several measures at 1m distance around the pump.

Tolerance ± 2.5 dB.