# Technical data

**Pump name** CDX 90/10

| | | |
|---|---|---|
| Customer | Date 23-June-2020 | Company |
| Contact | Item no. | Issued by |
| Phone | Project | Phone |
| E-mail | Project ID | E-mail |

**Requested data**

| | | | | | |
|---|---|---|---|---|---|
| 1 | Pump type | CENTRIFUGAL PUMPS | Fluid | | Water, clean |
| 2 | Number of pumps / Reserve | 1 / 0 | Liquid temperature | K | 293 |
| 3 | Flow m³/h | 0 | Kin. viscosity | mm²/s | 1 |
| 4 | Head m | 0 | Vapour pressure | kPa | 2.2 |
| 5 | Geodetic head m | 0 | PH value | | 7 |
| 6 | Inlet pressure (pin) kPa | 10 | Density | kg/m³ | 1000 |
| 7 | Available system NPSH | 0 | Solids | Weight % | 0 |
| 8 | Ambient temperature K | 290 | | | |

**Pump**

| | | | | | | |
|---|---|---|---|---|---|---|
| 9 | Pump name | CDX 90/10 | Frequency | | Hz | 50 |
| 10 | Design | CENTRIFUGAL PUMPS | Installation type | | | STANDARD |
| 11 | Manufacturer | EPE | Impeller Diameter | Max. | mm | 157 |
| 12 | Speed 1/min | 2800 | | Designed | mm | 157 |
| 13 | No. of Stage | 1 | | Min. | mm | 157 |
| 14 | Connection Suction side | UNI ISO 228-1 | Flow | Operating | m³/h | |
| 15 | Connection Discharge side | UNI ISO 228-1 | | Max- | m³/h | 6.6 |
| 16 | Max Working Pressure kPa | 800 | | Min- | m³/h | 1.2 |
| 17 | Shut-off head kPa | 313.39 | Head | Operating | m | |
| 18 | Total weight kg | See the table of "Dimensions". | | - (Qmax.) | m | 19.5 |
| 19 | Shaft power kW | | | - (Qmin.) | m | 30.3 |
| 20 | | | Max. Shaft Power at max. impeller | | kW | 0.76 |
| 21 | Required pump NPSH m | | Efficiency | | % | |

**Materials**

| | | | | |
|---|---|---|---|---|
| 22 | Impeller | AISI 304 | | |
| 23 | Casing | AISI 304 | | |
| 24 | Shaft | AISI 304 | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |

**Motor**

| | | | | | |
|---|---|---|---|---|---|
| 28 | Manufacturer | EPE Standard | Insulation class | | F |
| 29 | Type | TEFC_CDX 90/10_230_Three Phase | Phases | | 3~ |
| 30 | Specific design | IE3 / 50 Hz / Pole pairs 1 | Frame size | | |
| 31 | Rated power kW | 0.75 | Weight | kg | 0 |
| 32 | Number of poles | 2 | Electric voltage | V | 230 |
| 33 | Speed 1/min | 2800 | Electric current | A | 3.3 |
| 34 | Degree of protection | IP 55 | | | |
| 35 | | | | | |

**Remarks**

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# Performance curve **Pump name** CDX 90/10

| | | |
|---|---|---|
| Customer | Date 23-June-2020 | Company |
| Contact | Item no. | Issued by |
| Phone | Project | Phone |
| E-mail | Project ID | E-mail |

**Requested data**

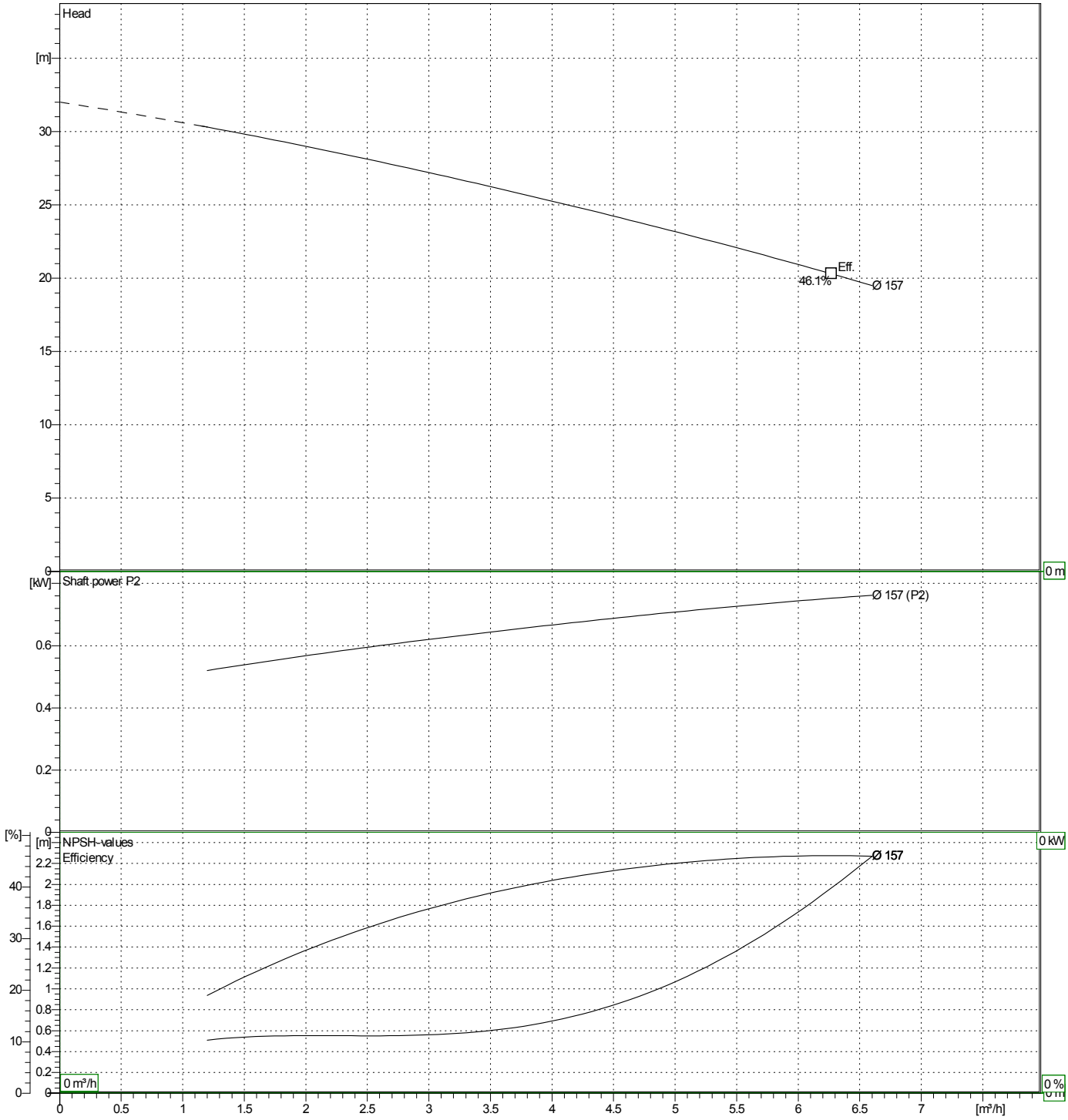
| | | | |
|---|---|---|---|
| 1 | Flow | m³/h | 0 |
| 2 | Head | m | 0 |
| 3 | Geodetic head | m | 0 |

**Pump**

| | | | | | |
|---|---|---|---|---|---|
| Operating Flow | m³/h | | Frequency | Hz | 50 |
| Operating Head | m | | Number of poles | | 2 |
| Impeller Diameter | Designed mm | 157 | Speed | 1/min | |

Test standard: ISO 9906:2012 - Grade3B

Water, clean [100%] ; 293K; 998.3kg/m³; 1mm²/s

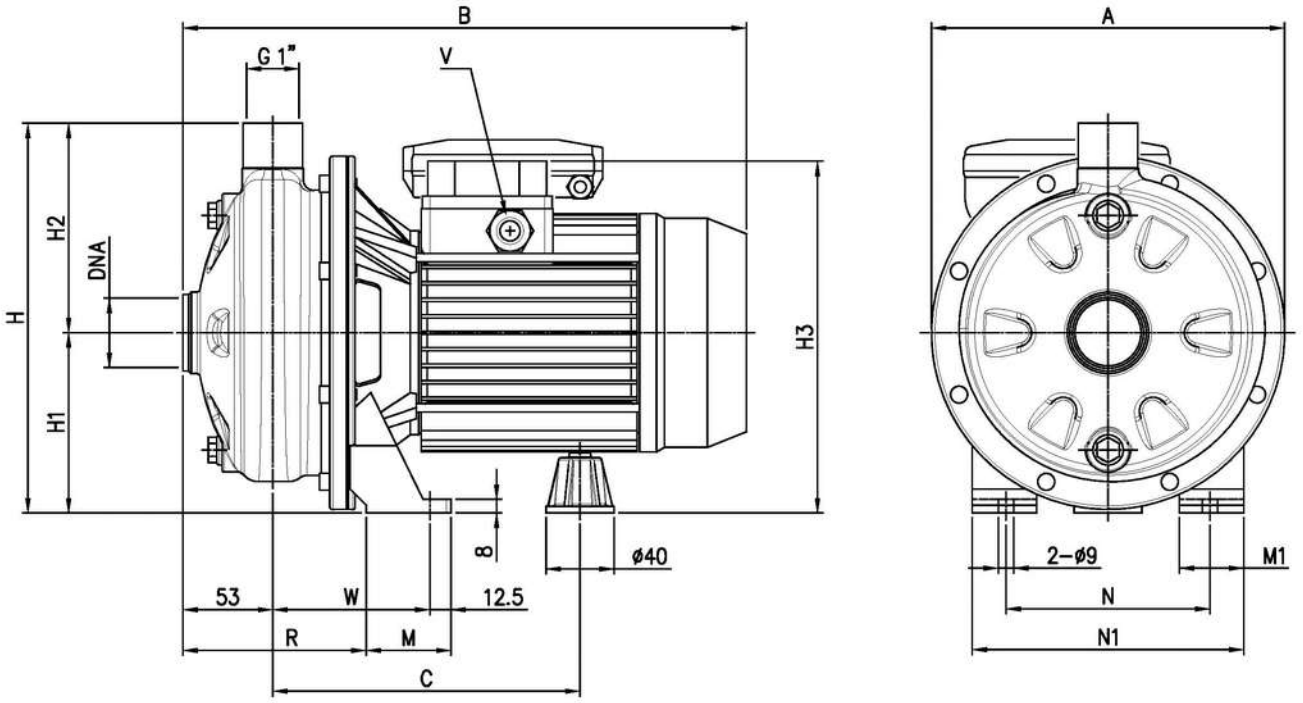



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# Dimensions

**Pump name** CDX 90/10

| | | |
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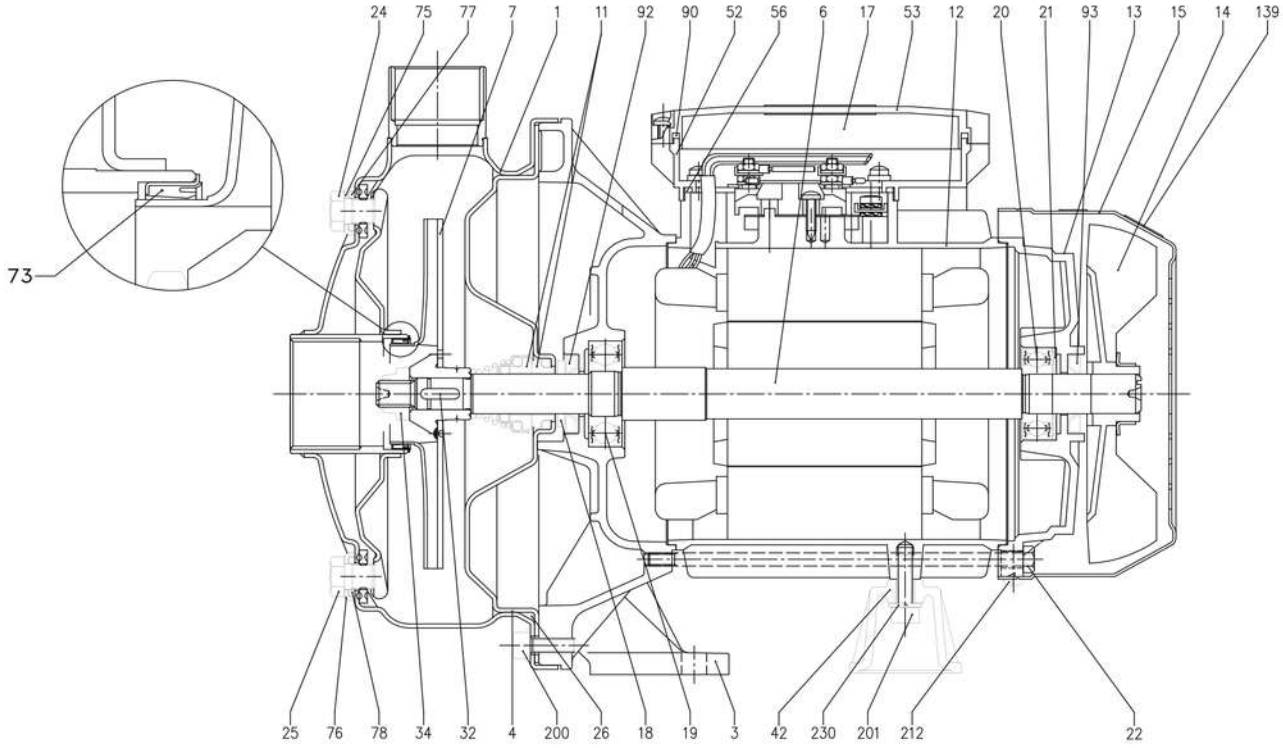

| Dimensions in mm | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | A | 208 | V | M16x1.5 | | | | |
| 2 | B | 320 | W | 92.5 | | | | |
| 3 | C | 181 | Weight P&M | 11 kg | | | | |
| 4 | DNA | G1 1/4 | | | | | | |
| 5 | H | 229.5 | | | | | | |
| 6 | H1 | 106 | | | | | | |
| 7 | H2 | 123.5 | | | | | | |
| 8 | H3 | 207 | | | | | | |
| 9 | M | 50 | | | | | | |
| 10 | M1 | 38 | | | | | | |
| 11 | N | 120 | | | | | | |
| 12 | N1 | 160 | | | | | | |
| 13 | R | 108 | | | | | | |

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# (1/3)
# Construction

**Pump name** CDX 90/10

| | | |
|---|---|---|
| Customer | Date 23-June-2020 | Company |
| Contact | Item no. | Issued by |
| Phone | Project | Phone |
| E-mail | Project ID | E-mail |




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# (2/3)
# Construction

**Pump name** CDX 90/10

| | | |
|---|---|---|
| Customer | Date 23-June-2020 | Company |
| Contact | Item no. | Issued by |
| Phone | Project | Phone |
| E-mail | Project ID | E-mail |

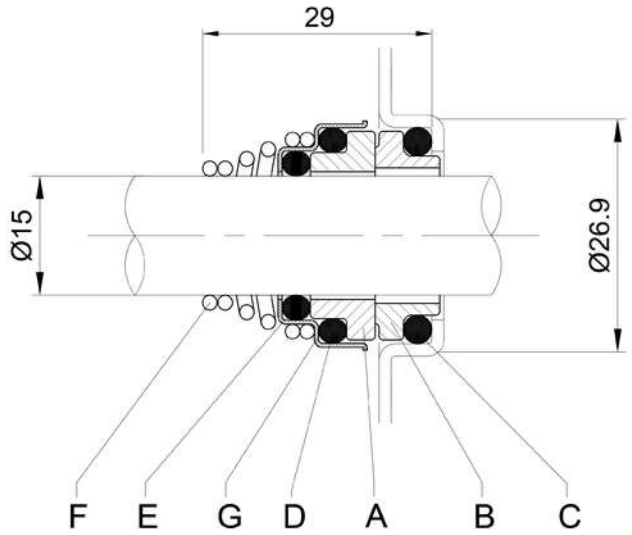
| N° | PART NAME | MATERIAL | Q.TY |
|---|---|---|---|
| 1 | Casing | AISI 304 / AISI 316L [5] | 1 |
| 3 | Motor bracket | Aluminium | 1 |
| 4 | Casing cover | AISI 304 / AISI 316L [5] | 1 |
| 6 | Shaft with rotor | AISI 303 / AISI 316L [5] (Wet extension) | 1 |
| 7 | Impeller | AISI 304 / AISI 316L [5] | 1 |
| 11 | Mechanical seal [6] | Carbon/Ceramic/NBR | 1 |
| 12 | Motor frame with stator | - | 1 |
| 13 | Motor cover | Aluminium | 1 |
| 14 | Fan | PA | 1 |
| 15 | Fan cover | Fe P04 Zincate | 1 |
| 17 | Terminal box cover [2] | Aluminium | 1 |
| 18 | Splash ring | NBR | 1 |
| 19 | Pump side ball bearing | - | 1 |
| 20 | Fan side ball bearing | - | 1 |
| 21 | Adjusting ring | Steel C70 | 1 |
| 22 | Tie rod | Fe 420 Zincate | 4 |
| 24 | Priming plug | AISI 304 / AISI 316 [5] | 1 |
| 25 | Drain plug | AISI 304 / AISI 316 [5] | 1 |
| 26 | O-ring [3] | NBR | 1 |
| 32 | Key | AISI 316 | 1 |
| 34 | Impeller nut | AISI 304 / AISI 316 [5] | 1 |
| 42 | Motor support | Aluminium | 1 |
| 52 | Terminal box [1] | ABS class V-0 | 1 |
| 53 | Terminal box cover [1] | ABS class V-0 | 1 |
| 56 | Box gasket | NBR | 1 |
| 73 | Casing ring [4] | NBR | 1 |
| 75 | Washer | AISI 304 | 1 |
| 76 | Washer | AISI 304 | 1 |
| 77 | O-ring [3] | NBR | 1 |
| 78 | O-ring [3] | NBR | 1 |
| 90 | Terminal box cover gasket [1] | NBR | 1 |
| 92 | Lip seal | - | 1 |
| 93 | Lip seal | - | 1 |
| 200 | Screw | Stainless steel A2 UNI7323 | 8 |

[1] Only for single phase
[2] Only for three phase
[3] FPM for CDX H-HS-HW-HSW
EPDM for CDX E and Special Mechanical seal
[4] NBR for CDX 70/05, 70/07, 90/10
FPM for CDX H-HS-HW-HSW 70/05, 70/07, 90/10
[5] Only for "L" version
[6] See **CONSTRUCTION 3**

# (3/3)
# Construction

**Pump name** CDX 90/10

| | | |
|---|---|---|
| Customer | Date 23-June-2020 | Company |
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| E-mail | Project ID | E-mail |




| REF | PART NAME | MATERIAL<br>Standard and L version |
|---|---|---|
| A | Rotary seal ring | Ceramic |
| B | Stationary seal ring | Carbon graphite |
| C | O-Ring | NBR |
| D | O-Ring | NBR |
| E | O-Ring | NBR |
| F | Self-driving spring | AISI 316 |
| G | Frame | AISI 304 |