# Technical data

**Pump name** 2CDX 70/15

| | | |
|---|---|---|
| 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 | 2CDX 70/15 | Frequency | | Hz | 50 |
| 10 | Design | CENTRIFUGAL PUMPS | Installation type | | | STANDARD |
| 11 | Manufacturer | EPE | Impeller Diameter | Max. | mm | - |
| 12 | Speed 1/min | 2800 | | Designed | mm | 153(No.2) |
| 13 | No. of Stage | 2 | | Min. | mm | - |
| 14 | Connection Suction side | UNI ISO 228-1 | Flow | Operating | m³/h | |
| 15 | Connection Discharge side | UNI ISO 228-1 | | Max- | m³/h | 4.8 |
| 16 | Max Working Pressure kPa | 800 | | Min- | m³/h | 1.2 |
| 17 | Shut-off head kPa | 548.43 | Head | Operating | m | |
| 18 | Total weight kg | See the table of "Dimensions". | | - (Qmax.) | m | 36.5 |
| 19 | Shaft power kW | | | - (Qmin.) | m | 52.5 |
| 20 | | | Max. Shaft Power at max. impeller | | kW | 1.33 |
| 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_2CDX 70/15_230_Three Phase | Phases | | 3~ |
| 30 | Specific design | IE3 / 50 Hz / Pole pairs 1 | Frame size | | |
| 31 | Rated power kW | 1.1 | Weight | kg | 0 |
| 32 | Number of poles | 2 | Electric voltage | V | 230 |
| 33 | Speed 1/min | 2800 | Electric current | A | 5.8 |
| 34 | Degree of protection | IP 55 | | | |
| 35 | | | | | |

**Remarks**

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# Performance curve

**Pump name** 2CDX 70/15

| | | |
|---|---|---|
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**Requested data**

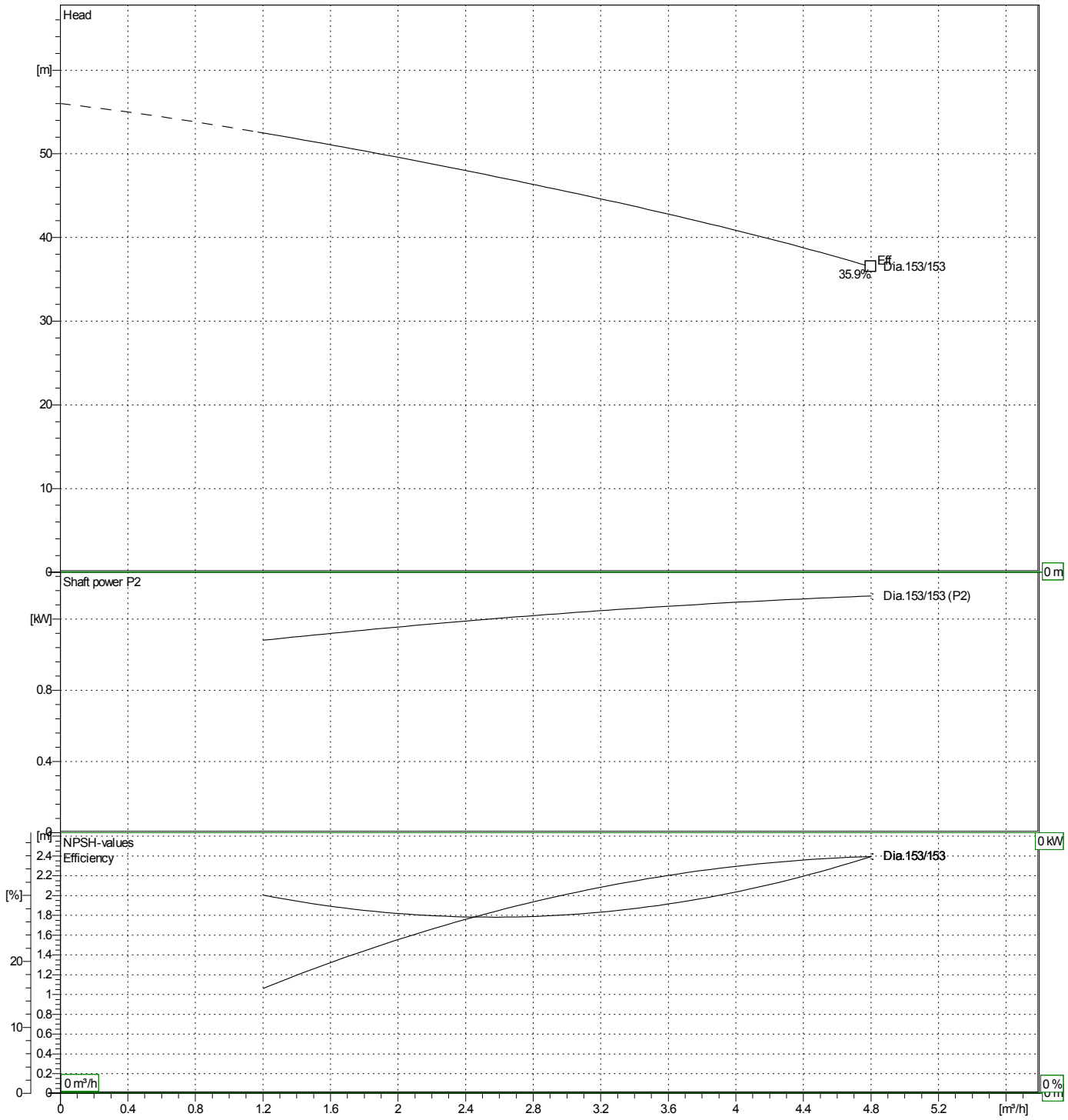
| | | | |
|---|---|---|---|
| 1 | Flow | m³/h | 0 |
| 2 | Head | m | 0 |
| 3 | Geodetic head | m | 0 |

**Pump**

| | | | | | |
|---|---|---|---|---|---|
| Operating Flow | m³/h | | Impeller Diameter Designed | mm | 153(No.2) |
| Operating Head | m | | Frequency | Hz | 50 |
| | | | Speed | 1/min | |

Test standard: ISO 9906:2012 - Grade3B

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

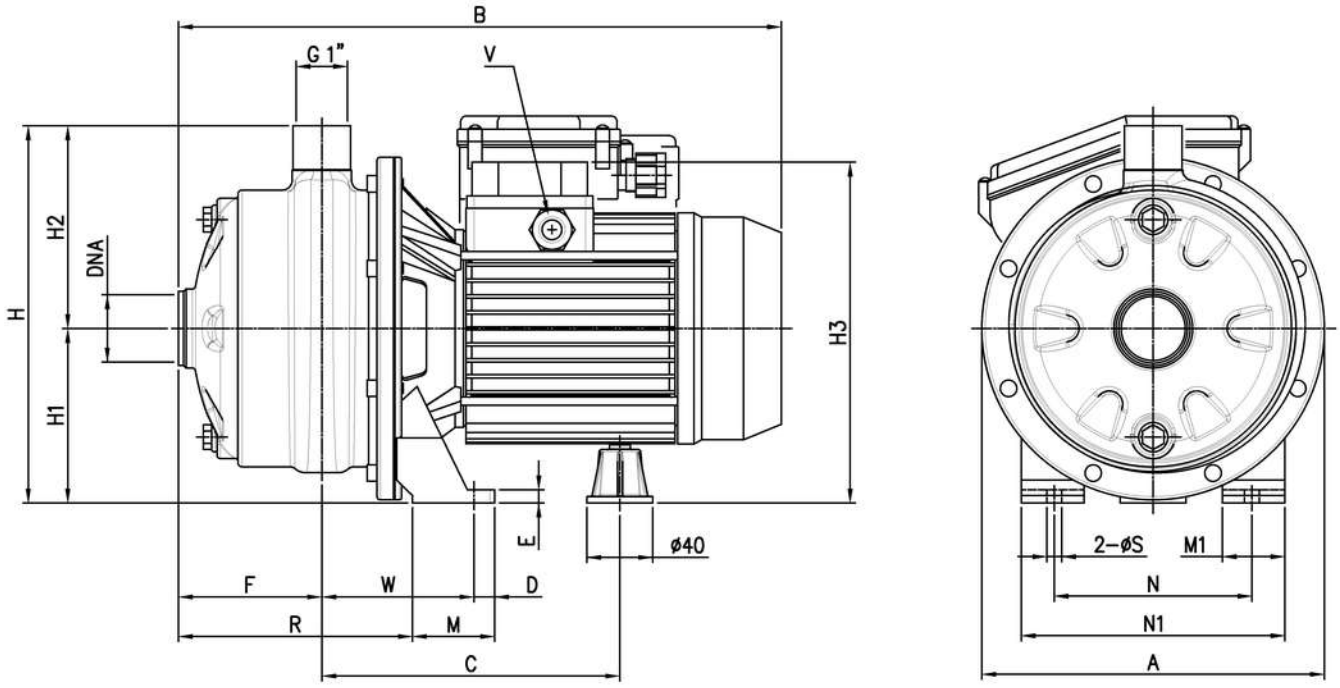



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# Dimensions

**Pump name** 2CDX 70/15

| | | |
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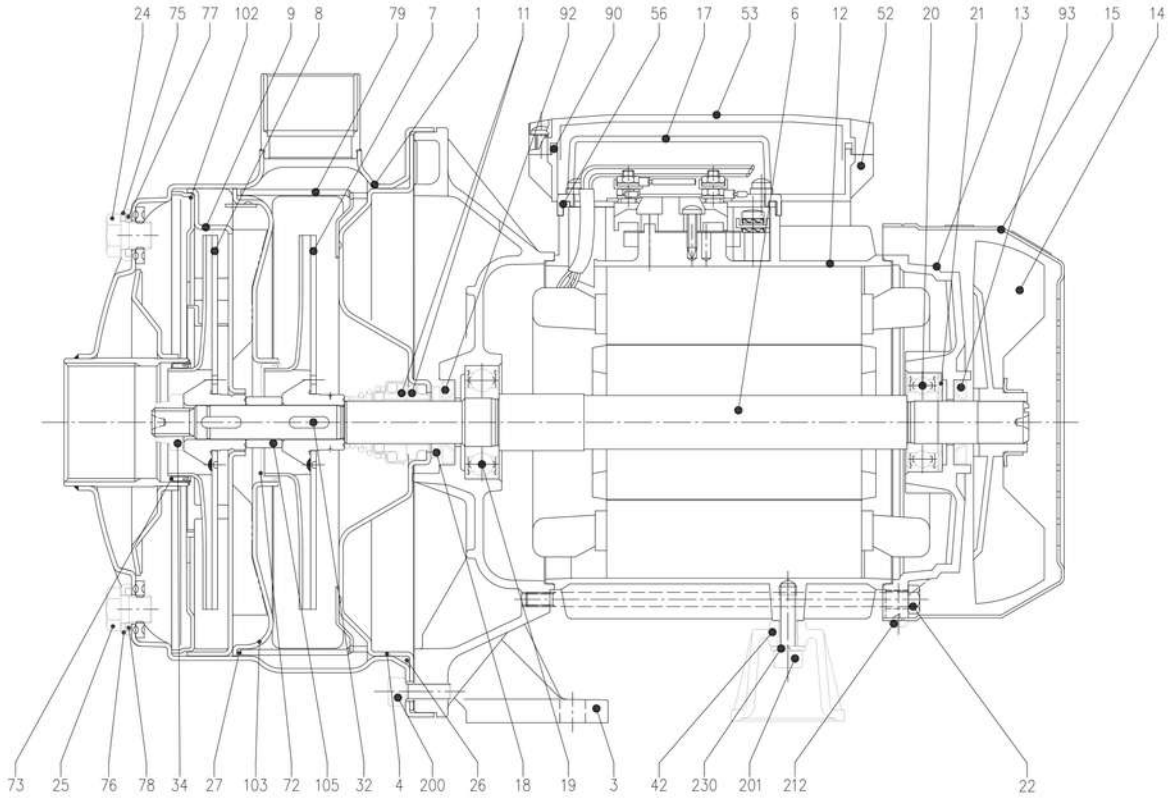

| Dimensions in mm | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | A | 232 | N | 140 | | | | |
| 2 | B | 407 | N1 | 180 | | | | |
| 3 | C | 198.5 | R | 141.5 | | | | |
| 4 | D | 12.5 | S | 9 | | | | |
| 5 | DNA | G1 1/4 | V | M20X1.5 | | | | |
| 6 | E | 8 | W | 95 | | | | |
| 7 | F | 89 | Weight P&M | 17 kg | | | | |
| 8 | H | 250 | | | | | | |
| 9 | H1 | 118 | | | | | | |
| 10 | H2 | 123 | | | | | | |
| 11 | H3 | 237 | | | | | | |
| 12 | M | 55 | | | | | | |
| 13 | M1 | 40 | | | | | | |

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# (1/3)
# Construction

**Pump name** 2CDX 70/15

| | | |
|---|---|---|
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| E-mail | Project ID | E-mail |



# (2/3)
# Construction

**Pump name** 2CDX 70/15

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

| N° | PART NAME | MATERIAL | DIMENSION | STANDARD | Q.TY |
|---|---|---|---|---|---|
| 1 | Casing | AISI 304 / AISI 316L [6] | | | 1 |
| 3 | Motor bracket | [4] | | | 1 |
| 4 | Casing cover | AISI 304 / AISI 316L [6] | | | 1 |
| 6 | Shaft with rotor | AISI 303 / AISI 316L [6] (Wet extension) | | | 1 |
| 7 | Impeller | AISI 304 / AISI 316L [6] | | | 1 |
| 8 | Impeller | AISI 304 / AISI 316L [6] | | | 1 |
| 9 | Diffuser | AISI 304 / AISI 316L [6] | | | 1 |
| 11 | Mechanical seal [7] | Ceramic/Carbon/NBR | | | 1 |
| 12 | Motor frame with stator | - | | | 1 |
| 13 | Motor cover | Aluminium | | | 1 |
| 14 | Fan | PA | | | 1 |
| 15 | Fan cover | Fe P04 Galvanized | | | 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 Galvanized | | | 4 |
| 24 | Priming plug | AISI 304 / AISI 316 [6] | | | 1 |
| 25 | Drain plug | AISI 304 / AISI 316 [6] | | | 1 |
| 26 | O-ring [3] | NBR | | | 1 |
| 27 | O-ring [3] | NBR | | | 1 |
| 32 | Key | AISI 316 | | | 2 |
| 34 | Impeller nut | Stainless steel A2-70 | M10X1,25 | UNI 7474 | 1 |
| 42 | Motor support | Aluminium | | | 1 |
| 52 | Capacitor box [1] | ABS class V-0 | | | 1 |
| 53 | Capacitor box cover [1] | ABS class V-0 | | | 1 |
| 56 | Box gasket | NBR | | | 1 |
| 72 | Casing ring [5] | NBR | | | 1 |
| 73 | Casing ring [5] | NBR | | | 1 |
| 75 | Washer | AISI 304 | | | 1 |
| 76 | Washer | AISI 304 | | | 1 |
| 77 | O-ring [3] | NBR | | | 1 |
| 78 | O-ring [3] | NBR | | | 1 |
| 79 | Space diffuser | AISI 304 / AISI 316 [6] | | | 1 |
| 90 | Terminal box cover gasket [1] | NBR | | | 1 |
| 92 | Lip seal | NBR | | | 1 |
| 93 | Lip seal | NBR | | | 1 |
| 102 | Suction cover | AISI 304 / AISI 316 [6] | | | 1 |
| 103 | Conveyor cover | AISI 304 / AISI 316 [6] | | | 1 |
| 105 | Sleeve | AISI 304 / AISI 316 [6] | | | 1 |
| 200 | Screw 70/10, 120/15, 120/20, 200/30 | Stainless steel A2-70 | M6X16 | UNI 5931 | 8 |
| | Screw 70/12, 70/15, 70/20, 120/30, 120/40, 200/40, 200/50 | | M8X18 | | |
| 201 | Screw | Zn. Steel cl.8.8 | | UNI 5931 | 1 |
| 212 | Screw | Stainless steel A2 | 3.5X9.5 | UNI 6954 | 4 |
| 230 | Washer | Steel C70 | 6,4 | UNI 1751 | 1 |

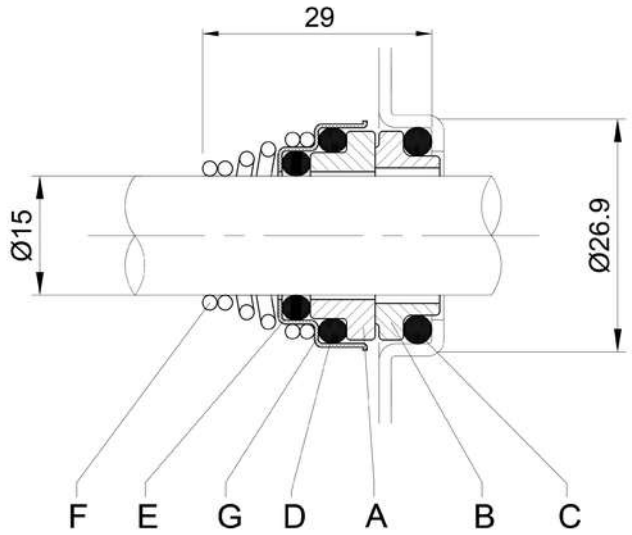
[1] Only for single phase
[2] Only for three phase
[3] FPM for H-HS-HW-HSW
EPDM for E and Special Mechanical Seals
[4] Material: Aluminium for version up to 1.5 kW included
Cast iron for version 2.2 kW and above
[5] FPM for H-HS-HW-HSW
[6] Only for "L" version
[7] See **CONSTRUCTION 3**

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# (3/3)
# Construction

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| REF | PART NAME | MATERIAL 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 |