

CENTRIFUGAL PUMPS

2CDX

CONTENTS 50Hz

Rev.

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CENTRIFUGAL PUMPS

2CDX

SPECIFICATION

50Hz

Rev. J

| | | | PUMP | | | | | | |
|----------------|-----------------|--------|------------------------------------|---------------|--|--|--|--|--|
| | Type of liquid | | Clean water | | | | | | |
| Liquid | | | min5 | | | | | | |
| Handled | Temperature | [°C] | max. +60 | | | | | | |
| rianaica | Temperature | [0] | max. +60 (E) | | | | | | |
| | | | max. +110 (H-HS-HW-HSW) | | | | | | |
| Maximum wor | king pressure | [MPa] | 0.8 | | | | | | |
| | Impeller | | Closed centrifugal type (Twin) | | | | | | |
| Construction | Shaft seal type | | Mechanical seal | | | | | | |
| | Bearing | | Sealed ball bearing | | | | | | |
| Pipe | Suction | [inch] | from G 1"1/4 to G 1"1/2 (2CDX 200) | UNI ISO 228 | | | | | |
| Connection | Discharge | [inch] | G 1" | UNI ISO 228 | | | | | |
| | Casing | | EN 1.4301 (AISI 304) | | | | | | |
| | Impeller | | EN 1.4301 (AISI 304) | | | | | | |
| | Casing cover | | EN 1.4301 (AISI 304) | | | | | | |
| Material | Shaft seal | | Ceramic/Carbon/NBR (for version | see page 301) | | | | | |
| ivialciiai | Shaft | | EN 1.4301 (AISI 304) (Wet extensi | on) | | | | | |
| | Bracket | | Aluminium (up to 1.5 kW included) | | | | | | |
| | Diacket | | Cast iron (2.2 kW and above) | | | | | | |
| | Diffuser | | EN 1.4301 (AISI 304) | | | | | | |
| Applicable sta | indard of test | | ISO 9906 – Annex A | | | | | | |

| | | MOTOR | | | | | | |
|---------------------------------|----------------------|---|--|--|--|--|--|--|
| Typo | | Electric | - TEFC | | | | | |
| Туре | | Single Phase | Three Phase | | | | | |
| Efficiency level (Reg. 640/2009 | 9) | - | IE2 from 0.75 kW up to 4.0 kW IE3 from 0.75 kW up to 4.0 kW | | | | | |
| No. of Poles | | | 2 | | | | | |
| Rotation speed | [min ⁻¹] | ≈ 2 | 800 | | | | | |
| Insulation Class | | F | | | | | | |
| Protection degree (CEI EN 600 | 034-5) | IP | 55 | | | | | |
| Dower rating | [kW] | 0.75 ÷ 2.2 | 0.75 ÷ 3.7 | | | | | |
| Power rating | [HP] | 1 ÷ 2 | 1 ÷ 5 | | | | | |
| Frequency | [Hz] | 5 | 50 | | | | | |
| Voltage | [V] | 230 ±10% | 230/400 ±10% | | | | | |
| Capacitor | | Built in | - | | | | | |
| Over load protection | | Built in | Provided by the user | | | | | |
| Casing material | | Alum | inium | | | | | |
| Motor support | | Aluminium | | | | | | |
| Dimensions of cable entry | | PG 11 – PG 13.5 – PG 16 - M16x1.5 - M20x1.5 (see dimensions page 400) | | | | | | |

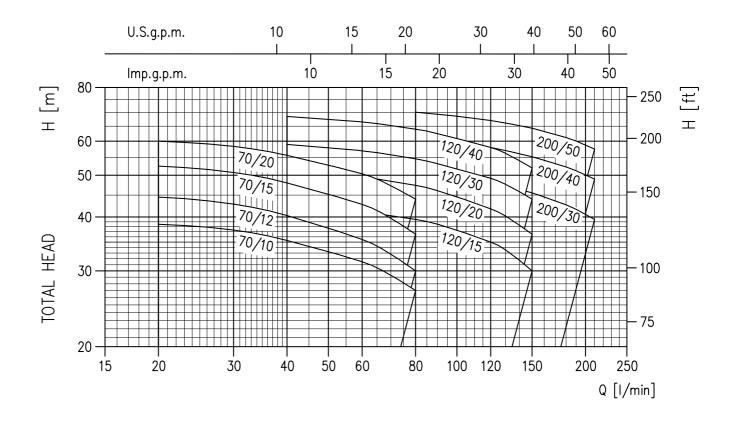


2CDX

SELECTION CHART

50Hz

Rev. J



| Pump | Typo | Po | wer | | | | Q: | =Capac | city | | | |
|---------------|--------------|------|------|---------|------|--------|--------|--------|---------|--------|------|------|
| Fullip | туре | | | l∕min 0 | 20 | 40 | 60 | 80 | 120 | 150 | 180 | 210 |
| Single Phase | Three Phase | [kW] | [HP] | m³/h 0 | 1.2 | 2.4 | 3.6 | 4.8 | 7.2 | 9.0 | 10.8 | 12.6 |
| Single Fliase | illiee Flase | | | | | H=Tota | l mano | metric | head in | meters | S | |
| 2CDXM 70/10 | 2CDX 70/10 | 0.75 | 1 | 41 | 38.5 | 35.3 | 31.5 | 27 | - | - | - | - |
| 2CDXM 70/12 | 2CDX 70/12 | 0.9 | 1.2 | 48 | 44.5 | 40.3 | 35.5 | 30 | - | - | - | - |
| 2CDXM 70/15 | 2CDX 70/15 | 1.1 | 1.5 | 56 | 52.5 | 48 | 42.8 | 36.5 | - | - | - | - |
| 2CDXM 70/20 | 2CDX 70/20 | 1.5 | 2 | 64 | 60 | 55.6 | 50.4 | 44 | - | - | - | - |
| 2CDXM 120/15 | 2CDX 120/15 | 1.1 | 1.5 | 46 | - | 42 | 41 | 39.5 | 35 | 30 | - | - |
| 2CDXM 120/20 | 2CDX 120/20 | 1.5 | 2 | 55 | - | 51.5 | 49.5 | 47.4 | 41.8 | 36.5 | - | - |
| - | 2CDX 120/30 | 2.2 | 3 | 63 | - | 59 | 57 | 54.6 | 49.2 | 44 | - | - |
| - | 2CDX 120/40 | 3 | 4 | 71.5 | - | 68.5 | 66.5 | 64 | 58 | 52 | - | - |
| - | 2CDX 200/30 | 2.2 | 3 | 55 | - | - | 52 | 50.8 | 48.1 | 45.5 | 42.7 | 39.5 |
| - | 2CDX 200/40 | 3 | 4 | 66 | - | - | 62.5 | 61.1 | 58 | 55.2 | 52.3 | 49 |
| - | 2CDX 200/50 | 3.7 | 5 | 75 | - | - | 71.5 | 70.1 | 67 | 64.3 | 61.2 | 57.5 |

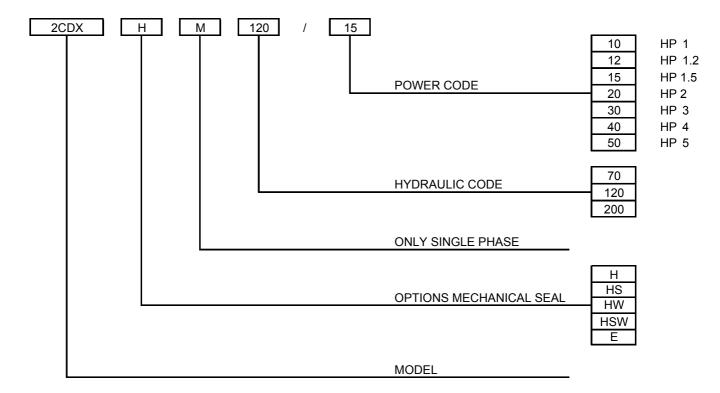
CENTRIFUGAL PUMPS 2CDX

TYPE KEY AND CURVE SPECIFICATIONS

50Hz

Rev. J

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 $v = 1 \text{ mm}^2/\text{s}$ (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

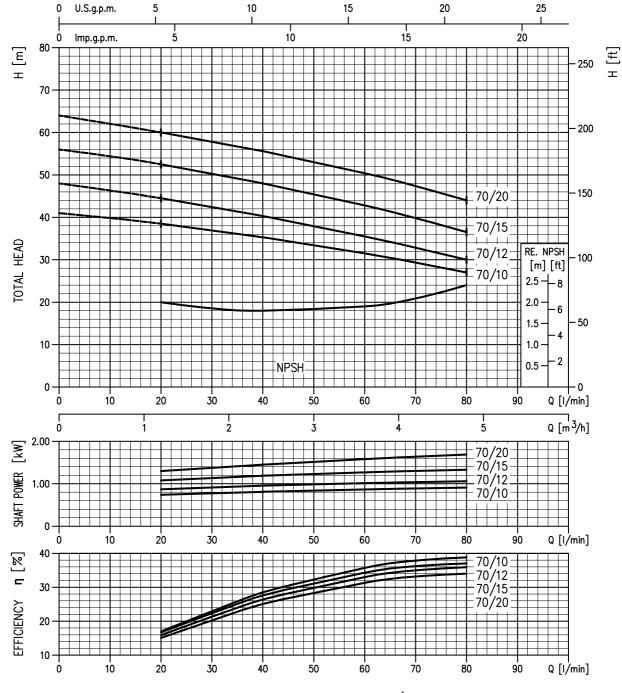


PERFORMANCE CURVE

50Hz

Rev. J

2CDX 70/10 (0.75 kW) - Impeller diameter = 132/132 mm 2CDX 70/12 (0.9 kW) - Impeller diameter = 153/132 mm 2CDX 70/15 (1.1 kW) - Impeller diameter = 153/153 mm 2CDX 70/20 (1.5 kW) - Impeller diameter = 153/176 mm



Rotation speed ≈ 2800 min⁻¹ Test standard: ISO 9906 – Annex A

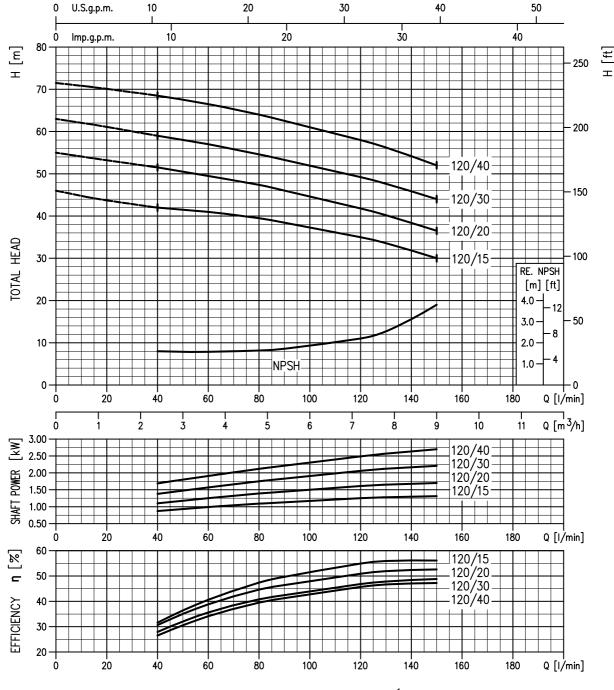


PERFORMANCE CURVE

50Hz

Rev J

2CDX 120/15 (1.1 kW) - Impeller diameter = 132/132 mm 2CDX 120/20 (1.5 kW) - Impeller diameter = 157/132 mm 2CDX 120/30 (2.2 kW) - Impeller diameter = 157/157 mm 2CDX 120/40 (3.0 kW) - Impeller diameter = 176/157 mm



Rotation speed ≈ 2800 min⁻¹
Test standard: ISO 9906 – Annex A

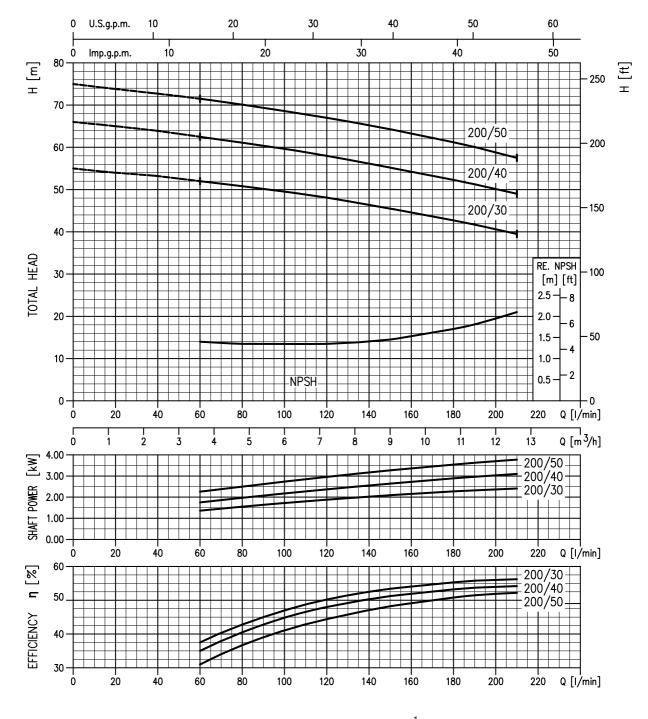


PERFORMANCE CURVE

50Hz

Rev. J

2CDX 200/30 (2.2 kW) - Impeller diameter = 157/132 mm 2CDX 200/40 (3.0 kW) - Impeller diameter = 157/157 mm 2CDX 200/50 (3.7 kW) - Impeller diameter = 176/157 mm



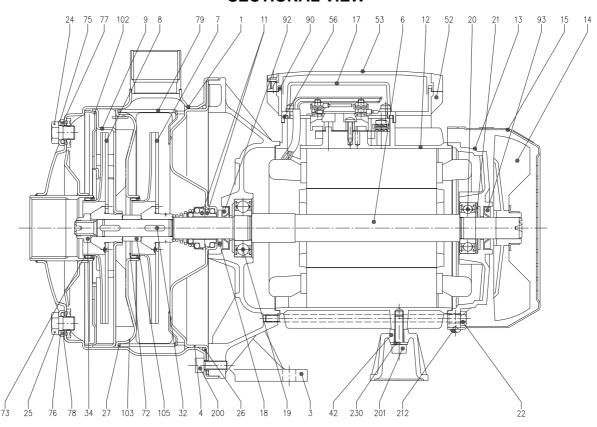
Rotation speed ≈ 2800 min⁻¹ Test standard: ISO 9906 – Annex A



CONSTRUCTION

50Hz Rev. J

SECTIONAL VIEW



| Ν° | PART NAME | MATERIAL | DIMENSION | STANDARD | Q.TY | N° | | PART NAME | MATERIAL | DIMENSION | STANDARD | Q.TY |
|----|-------------------------|--------------------------|--------------|----------|------|-----|-------------------|-------------------------------|-----------------------|-----------|----------|------|
| 1 | Casing | AISI 304 | | | 1 | 42 | Motor supp | ort | Aluminium | | | 1 |
| 3 | Motor bracket | [4] | | | 1 | 52 | Capacitor box [1] | | ABS class V-0 | | | 1 |
| 4 | Casing cover | AISI 304 | | | 1 | 53 | Capacitor b | ox cover [1] | ABS class V-0 | | | 1 |
| 6 | Shaft with rotor | AISI 304 (Wet extension) | | | 1 | 56 | Box gasket | | NBR | | | 1 |
| 7 | Impeller | AISI 304 | | | 1 | 72 | Casing ring | [5] | NBR | | | 1 |
| 8 | Impeller | AISI 304 | | | 1 | 73 | Casing ring | [5] | NBR | | | 1 |
| 9 | Diffuser | AISI 304 | | | 1 | 75 | Washer | | AISI 304 | | | 1 |
| 11 | Mechanical seal | Ceramic/Carbon/NBR | see page 301 | | 1 | 76 | Washer | | AISI 304 | | | 1 |
| 12 | Motor frame with stator | - | | | 1 | 77 | O-ring [3] | | NBR | | | 1 |
| 13 | Motor cover | Aluminium | | | 1 | 78 | O-ring [3] | | NBR | | | 1 |
| 14 | Fan | PA | | | 1 | 79 | Space diffu | ser | AISI 304 | | | 1 |
| 15 | Fan cover | Fe P04 Galvanized | | | 1 | 90 | Terminal bo | ox cover gasket [1] | NBR | | | 1 |
| 17 | Terminal box cover [2] | Aluminium | | | 1 | 92 | Lip seal | | NBR | | | 1 |
| 18 | Splash ring | NBR | | | 1 | 93 | Lip seal | | NBR | | | 1 |
| 19 | Pump side ball bearing | - | | | 1 | | Suction cov | | AISI 304 | | | 1 |
| 20 | Fan side ball bearing | - | | | 1 | | Conveyor o | over | AISI 304 | | | 1 |
| 21 | Adjusting ring | Steel C70 | | | 1 | 105 | Sleeve | | AISI 304 | | | 1 |
| | Tie rod | Fe 420 Galvanized | | | 4 | | | 70/10, 120/15, 120/20, 200/30 | | M6X16 | | |
| 24 | Priming plug | AISI 304 | | | 1 | 200 | Screw | 70/12, 70/15, 70/20, 120/30, | Stainless steel A2-70 | M8X18 | UNI 5931 | 8 |
| 25 | Drain plug | AISI 304 | | | 1 | | | 120/40, 200/40, 200/50 | | WOXTO | | |
| 26 | O-ring [3] | NBR | | | 1 | | Screw | · | Zn. Steel cl.8.8 | | UNI 5931 | 1 |
| | O-ring [3] | NBR | | | 1 | | Screw | <u> </u> | Stainless steel A2 | 3,5X9,5 | UNI 6954 | 4 |
| 32 | Key | AISI 316 | | | 2 | 230 | Washer | | Steel C70 | 6.4 | UNI 1751 | 1 |
| 34 | Impeller nut | Stainless steel A2-70 | M10X1,25 | UNI 7474 | 1 | | | | | | | |

- Only for single phase Only for three phase
- [2] [3]
- FPM for H-HS-HW-HSW

EPDM for E

- [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 NBR for E



300

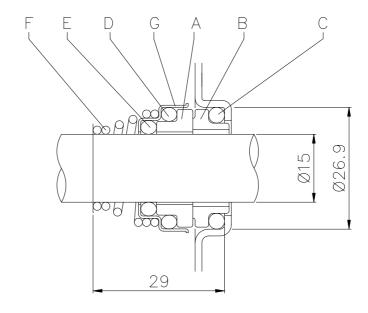


CONSTRUCTION

50Hz

Rev. J

MECHANICAL SEAL



| | | | | MATE | ERIAL | | |
|-----|----------------------|------------------|-----------------|-----------------|------------------|------------------|-----------------|
| REF | PART NAME | Standard version | | | Optional | | |
| | | (2CDX) | (2CDXH) | (2CDXHS) | (2CDXHW) | (2CDXHSW) | (2CDXE) |
| Α | Rotary seal ring | Ceramic | Ceramic | Silicon carbide | Tungsten carbide | Silicon carbide | Ceramic |
| В | Stationary seal ring | Carbon graphite | Carbon graphite | Silicon carbide | Tungsten carbide | Tungsten carbide | Carbon graphite |
| С | O Ring | NBR | FPM | FPM | FPM | FPM | EPDM |
| D | O Ring | NBR | FPM | FPM | FPM | FPM | EPDM |
| Е | 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 Be | earing | |
|--------------|-------------|-----------|------------|-----------|------------|
| | | | (**) | | (**) |
| Single Phase | Three Phase | Pump side | Pump side | Fan side | Fan side |
| 2CDXM 70/10 | 2CDX 70/10 | 6203 2RSH | 6203-ZZ C3 | 6202 2RSH | 6202-ZZ C3 |
| 2CDXM 70/12 | 2CDX 70/12 | 6203 2RSH | 6203-ZZ C3 | 6202 2RSH | 6202-ZZ C3 |
| 2CDXM 70/15 | 2CDX 70/15 | 6204 2RSH | 6204-ZZ C3 | 6203 2RSH | 6203-ZZ C3 |
| 2CDXM 70/20 | 2CDX 70/20 | 6204 2RSH | 6204-ZZ C3 | 6203 2RSH | 6203-ZZ C3 |
| 2CDXM 120/15 | 2CDX 120/15 | 6204 2RSH | 6204-ZZ C3 | 6203 2RSH | 6203-ZZ C3 |
| 2CDXM 120/20 | 2CDX 120/20 | 6204 2RSH | 6204-ZZ C3 | 6203 2RSH | 6203-ZZ C3 |
| - | 2CDX 120/30 | 6305 2RSH | 6305-ZZ C3 | 6205 2RSH | 6205-ZZ C3 |
| - | 2CDX 120/40 | 6305 2RSH | 6305-ZZ C3 | 6205 2RSH | 6205-ZZ C3 |
| - | 2CDX 200/30 | 6205 2RSH | 6205-ZZ C3 | 6205 2RSH | 6205-ZZ C3 |
| - | 2CDX 200/40 | 6305 2RSH | 6305-ZZ C3 | 6205 2RSH | 6205-ZZ C3 |
| - | 2CDX 200/50 | 6206 2RSH | 6206-ZZ C3 | 6205 2RSH | 6205-ZZ C3 |

(**) Only for IE3 Motors



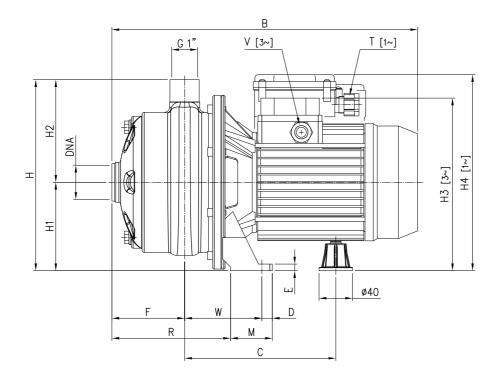


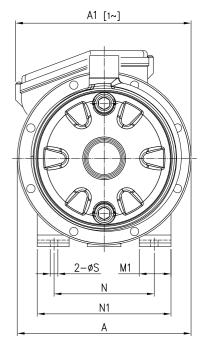
DIMENSIONS AND WEIGHT

50Hz

Rev. J

PUMP





| Pump type | | | | | | | | | | | | Din | nensions | mm] | | | | | | | | | | | | ٧ | /eight [kg | βŊ |
|-----------|-----|--------|-------|------|--------|---------------|------|----|----|-----|-----|-----|----------|-------|----|----|-----|-----|-------|---------|---------|---------|-------|----|-------|------|------------|------|
| 2CDXM | Α | (*) A1 | E | 3 | (**) B | С | D | Е | F | н | H1 | H2 | НЗ | H4 | М | M1 | N | N1 | R | T | V | (**) V | W | s | DNA | | | (**) |
| 2CDX | | [1~] | [1~] | [3~] | [3~] | | | | | | | | [3~] | [1~] | | | | | | [1~] | [3~] | [3~] | | | | [1~] | [3~] | [3~] |
| 70/10 | 208 | - | 355 | 354 | 354 | 181 | 12.5 | 8 | 87 | 229 | 106 | 123 | 207 | 216 | 50 | 38 | 120 | 160 | 142 | PG 11 | PG 11 | M16x1.5 | 92.5 | 9 | G11/4 | 12.7 | 12.6 | 12.6 |
| 70/12 | 208 | 210 | 355 | 366 | 366 | 181 | 12.5 | 8 | 87 | 229 | 106 | 123 | 207 | 235 | 50 | 38 | 120 | 160 | 142 | PG 13.5 | PG 11 | M16x1.5 | 92.5 | 9 | G11/4 | 13.3 | 13.7 | 13.7 |
| 70/15 | 232 | - | 395.5 | 382 | 407 | 198.5 | 12.5 | 8 | 89 | 250 | 118 | 132 | 237 | 248.5 | 55 | 40 | 140 | 180 | 141.5 | PG 13.5 | PG 11 | M20x1.5 | 95 | 9 | G11/4 | 17.5 | 17 | 17 |
| 70/20 | 232 | - | 382.5 | 395 | 407.5 | 198.5 | 12.5 | 8 | 89 | 250 | 118 | 132 | 237 | 248.5 | 55 | 40 | 140 | 180 | 141.5 | PG 13.5 | PG 11 | M20x1.5 | 95 | 9 | G11/4 | 18.5 | 19.2 | 20.1 |
| 120/15 | 208 | 210 | 395.5 | 382 | 407 | 198.5 | 12.5 | 8 | 89 | 229 | 106 | 123 | 225 | 236.5 | 55 | 40 | 140 | 180 | 141.5 | PG 13.5 | PG 11 | M20x1.5 | 95 | 9 | G11/4 | 16.3 | 15.6 | 15.6 |
| 120/20 | 208 | 210 | 382.5 | 395 | 407.5 | 198.5 | 12.5 | 8 | 89 | 229 | 106 | 123 | 225 | 236.5 | 55 | 40 | 140 | 180 | 141.5 | PG 13.5 | PG 11 | M20x1.5 | 95 | 9 | G11/4 | 17 | 17.4 | 18.3 |
| 120/30 | 232 | - | - | 419 | 405 | 223.5 ÷ 234.5 | 12.5 | 10 | 87 | 250 | 118 | 132 | 242 | - | 65 | 40 | 140 | 180 | 143.5 | - | PG 13.5 | M20x1.5 | 109 | 9 | G11/4 | - | 25.2 | 26.1 |
| 120/40 | 232 | - | - | 458 | 458 | 223.5 ÷ 234.5 | 12.5 | 10 | 87 | 250 | 118 | 132 | 242 | - | 65 | 40 | 140 | 180 | 143.5 | - | PG 13.5 | M20x1.5 | 109 | 9 | G11/4 | - | 27.8 | 27.8 |
| 200/30 | 208 | - | - | 458 | 458 | 223.5 ÷ 234.5 | 12.5 | 10 | 87 | 229 | 106 | 123 | 230 | - | 65 | 40 | 140 | 180 | 143.5 | - | PG 13.5 | M20x1.5 | 109 | 9 | G1½ | - | 25.7 | 26.6 |
| 200/40 | 232 | - | - | 458 | 458 | 223.5 ÷ 234.5 | 12.5 | 10 | 87 | 250 | 118 | 132 | 242 | - | 65 | 40 | 140 | 180 | 143.5 | - | PG 13.5 | M20x1.5 | 109 | 9 | G1½ | - | 27.6 | 27.6 |
| 200/50 | 232 | - | - | 481 | 481 | 232.5 | 16 | 12 | 87 | 250 | 118 | 132 | 259 | - | 68 | 50 | 160 | 210 | 143.5 | - | PG 16 | M20x1.5 | 108.5 | 12 | G1½ | - | 35.6 | 35.6 |

- (*) Specified only if higher than "A" (**) Only for IE3 Motors [1~] Single phase

- [3~] Three phase

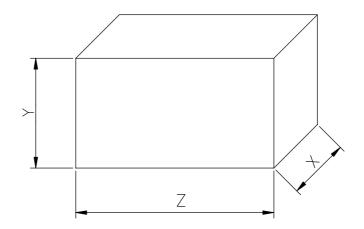




DIMENSIONS AND WEIGHT

50Hz

PACKING



| Pump | type | | | | Pa | acking [m | m] | | | | Weight [kgf] | | |
|----------------|---------------|------|------|-----------|------|-----------|-----------|------|------|-----------|--------------|------|------|
| Single Phase | Three Phase | | X | | | Y | | | Z | | | | (**) |
| Siligle Filase | Tillee Filase | [1~] | [3~] | (**) [3~] | [1~] | [3~] | (**) [3~] | [1~] | [3~] | (**) [3~] | [1~] | [3~] | [3~] |
| 2CDXM 70/10 | 2CDX 70/10 | 225 | 225 | 225 | 278 | 278 | 278 | 373 | 387 | 387 | 13.3 | 13.3 | 13.3 |
| 2CDXM 70/12 | 2CDX 70/12 | 225 | 244 | 244 | 278 | 308 | 308 | 387 | 427 | 427 | 13.9 | 14.6 | 14.6 |
| 2CDXM 70/15 | 2CDX 70/15 | 244 | 244 | 244 | 308 | 308 | 308 | 427 | 427 | 427 | 18.4 | 17.8 | 17.8 |
| 2CDXM 70/20 | 2CDX 70/20 | 244 | 244 | 244 | 308 | 308 | 308 | 427 | 427 | 427 | 19.5 | 20.1 | 21 |
| 2CDXM 120/15 | 2CDX 120/15 | 244 | 244 | 244 | 308 | 308 | 308 | 427 | 427 | 427 | 17 | 16.4 | 16.4 |
| 2CDXM 120/20 | 2CDX 120/20 | 244 | 244 | 244 | 308 | 308 | 308 | 427 | 427 | 427 | 17.7 | 18.4 | 19.3 |
| - | 2CDX 120/30 | - | 244 | 244 | - | 308 | 308 | - | 427 | 427 | - | 25.8 | 26.7 |
| - | 2CDX 120/40 | - | 244 | 244 | - | 313 | 313 | - | 507 | 507 | - | 28.8 | 28.8 |
| - | 2CDX 200/30 | - | 244 | 244 | - | 313 | 313 | - | 507 | 507 | - | 27.6 | 28.5 |
| - | 2CDX 200/40 | - | 244 | 244 | - | 313 | 313 | - | 507 | 507 | - | 28.6 | 28.6 |
| - | 2CDX 200/50 | - | 244 | 280 | - | 313 | 350 | - | 507 | 520 | - | 37.5 | 37.5 |

[1~] Single phase

[3~] Three phase (**) Only for IE3 Motors





TECHNICAL DATA

50Hz

Rev. .

MOTOR DATA

| Pump | n tyne | Po | wer | Effici | iency | Capacitor Efficiency (% load) | | | Inp | out | Full load current | | | Locked rot | or curre | ent | | |
|-----------------|--------------|-------|-------|--------|--------|-------------------------------|-------|------|---------|------|-------------------|-------|--------------|------------|----------|--------------|------------|-------|
| 1 4111 | , type | | | Lillo | iorioy | | | Th | ree pha | ase | [k' | W] | [/ | <u>^</u>] | | [/ | <u>\</u>] | |
| Single Phase | Three Phase | [kW] | [HP] | Single | Three | Single | Phase | | η % | | Single | Three | Single Phase | Three | Phase | Single Phase | Three | Phase |
| Olligic i flasc | Thice i hase | [KVV] | ["] | Phase | Phase | [μF] | [V] | 50% | 75% | 100% | Phase | Phase | 230 V | 230 V | 400 V | 230 V | 230 V | 400 V |
| 2CDXM 70/10 | 2CDX 70/10 | 0.75 | 1.0 | - | IE2 | 20 | 450 | 77.2 | 80.9 | 81.3 | 1.30 | 1.14 | 6.0 | 3.6 | 2.0 | 22.7 | 22.0 | 12.9 |
| - | 2CDX 70/10 | 0.75 | 1.0 | - | IE3 | - | - | 80.9 | 82.3 | 82.1 | - | 0.91 | - | 3.0 | 1.7 | - | 19.7 | 11.4 |
| 2CDXM 70/12 | 2CDX 70/12 | 0.9 | 1.2 | - | IE2 | 31.5 | 450 | 79.0 | 81.7 | 81.6 | 1.55 | 1.35 | 7.0 | 4.3 | 2.5 | 25.5 | 31.0 | 17.8 |
| - | 2CDX 70/12 | 0.9 | 1.2 | - | IE3 | - | - | 81.7 | 83.1 | 82.4 | - | 1.34 | - | 4.3 | 2.5 | - | 28.8 | 16.6 |
| 2CDXM 70/15 | 2CDX 70/15 | 1.1 | 1.5 | - | IE2 | 40 | 450 | 79.7 | 82.5 | 83.0 | 1.80 | 1.80 | 8.1 | 5.6 | 3.2 | 43.0 | 45.0 | 25.7 |
| - | 2CDX 70/15 | 1.1 | 1.5 | - | IE3 | - | - | 83.0 | 85.8 | 85.6 | - | 1.77 | - | 5.8 | 3.3 | - | 47.4 | 27.4 |
| 2CDXM 70/20 | 2CDX 70/20 | 1.5 | 2.0 | - | IE2 | 40 | 450 | 80.3 | 83.4 | 83.8 | 2.30 | 2.28 | 10.0 | 7.4 | 4.3 | 43.0 | 34.3 | 20.0 |
| - | 2CDX 70/20 | 1.5 | 2.0 | - | IE3 | - | - | 84.2 | 86.8 | 86.9 | - | 2.01 | - | 7.1 | 4.1 | - | 66.6 | 38.4 |
| 2CDXM 120/15 | 2CDX 120/15 | 1.1 | 1.5 | - | IE2 | 40 | 450 | 79.7 | 82.5 | 83.0 | 1.80 | 1.80 | 8.3 | 5.6 | 3.2 | 43.0 | 45.0 | 25.7 |
| - | 2CDX 120/15 | 1.1 | 1.5 | - | IE3 | - | - | 83.0 | 85.8 | 85.6 | - | 1.77 | - | 5.8 | 3.3 | - | 47.4 | 27.4 |
| 2CDXM 120/20 | 2CDX 120/20 | 1.5 | 2.0 | | IE2 | 40 | 450 | 80.3 | 83.4 | 83.8 | 2.35 | 2.28 | 10.2 | 7.3 | 4.2 | 43.0 | 34.3 | 20.0 |
| - | 2CDX 120/20 | 1.5 | 2.0 | - | IE3 | - | - | 84.2 | 86.8 | 86.9 | - | 2.01 | - | 7.1 | 4.1 | - | 66.6 | 38.4 |
| - | 2CDX 120/30 | 2.2 | 3.0 | - | IE2 | - | - | 83.1 | 85.7 | 86.2 | - | 2.90 | - | 8.8 | 5.1 | - | 75.0 | 43.5 |
| - | 2CDX 120/30 | 2.2 | 3.0 | - | IE3 | - | - | 85.8 | 86.2 | 87.1 | - | 2.56 | - | 7.8 | 4.5 | - | 63.3 | 36.6 |
| - | 2CDX 120/40 | 3.0 | 4.0 | - | IE2 | - | - | 85.0 | 86.7 | 86.3 | - | 3.48 | - | 10.6 | 6.1 | - | 100.0 | 57.7 |
| - | 2CDX 120/40 | 3.0 | 4.0 | - | IE3 | - | - | 85.9 | 87.5 | 87.1 | - | 3.44 | - | 11.1 | 6.4 | - | 90.0 | 52.0 |
| - | 2CDX 200/30 | 2.2 | 3.0 | - | IE2 | - | - | 85.0 | 86.7 | 86.3 | - | 3.48 | - | 10.6 | 6.1 | - | 100.0 | 57.7 |
| - | 2CDX 200/30 | 2.2 | 3.0 | | IE3 | - | - | 85.9 | 87.5 | 87.1 | - | 3.44 | - | 11.1 | 6.4 | - | 90.0 | 52.0 |
| - | 2CDX 200/40 | 3.0 | 4.0 | - | IE2 | - | - | 85.0 | 86.7 | 86.3 | - | 3.83 | - | 11.6 | 6.7 | - | 100.0 | 57.7 |
| - | 2CDX 200/40 | 3.0 | 4.0 | - | IE3 | - | - | 85.9 | 87.5 | 87.1 | - | 3.44 | - | 11.1 | 6.4 | - | 90.0 | 52.0 |
| - | 2CDX 200/50 | 3.7 | 5.0 | - | IE2 | - | - | 84.3 | 87.2 | 87.8 | - | 4.56 | - | 15.1 | 8.7 | - | 151.0 | 87.0 |
| - | 2CDX 200/50 | 3.7 | 5.0 | - | IE3 | - | - | 85.8 | 88.3 | 88.4 | - | 4.52 | - | 15.1 | 8.7 | - | 131.8 | 76.1 |

NOISE DATA

| Pump | type | Po | wer | I ID/A) * |
|--------------|-------------|------|------|---------------------------|
| Single Phase | Three Phase | [kW] | [HP] | L _{pA} - dB(A) * |
| 2CDXM 70/10 | 2CDX 70/10 | 0.75 | 1.0 | 62 |
| 2CDXM 70/12 | 2CDX 70/12 | 0.9 | 1.2 | 02 |
| 2CDXM 70/15 | 2CDX 70/15 | 1.1 | 1.5 | |
| 2CDXM 70/20 | 2CDX 70/20 | 1.5 | 2.0 | 64 |
| 2CDXM 120/15 | 2CDX 120/15 | 1.1 | 1.5 | 04 |
| 2CDXM 120/20 | 2CDX 120/20 | 1.5 | 2.0 | |
| - | 2CDX 120/30 | 2.2 | 3.0 | |
| - | 2CDX 120/40 | 3.0 | 4.0 | |
| - | 2CDX 200/30 | 2.2 | 3.0 | 68 |
| - | 2CDX 200/40 | 3.0 | 4.0 | |
| - | 2CDX 200/50 | 3.7 | 5.0 | |

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

Tollerance ± 2.5 dB.

