

WASTEWATER
SUBMERSIBLE MOTOR PUMP
MODEL DKE
TECHNICAL DATA BOOK 50Hz



EBARA Corporation
EBARA DENSAN (TAIWAN) MFG. CO., LTD.

October, 2024

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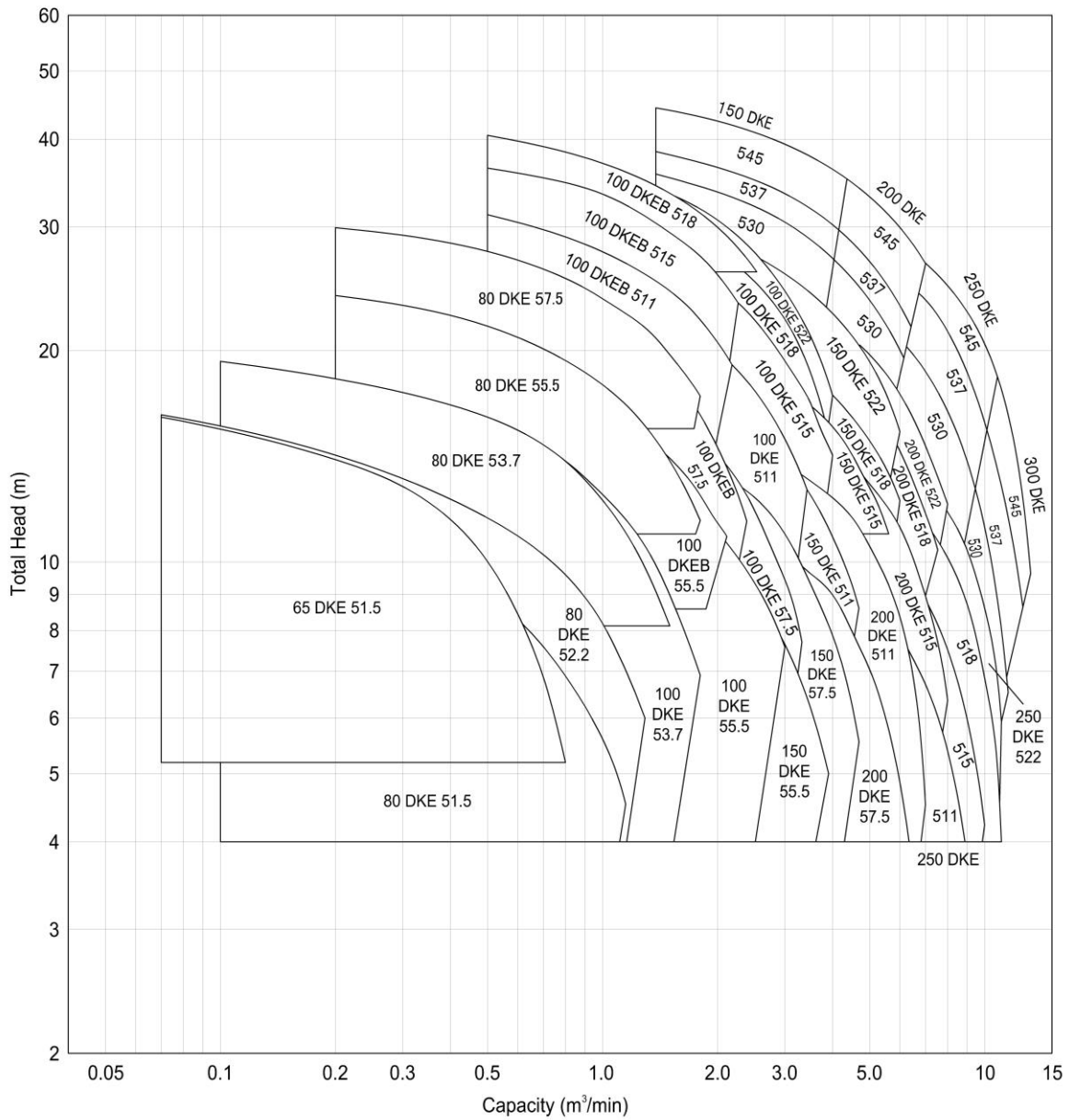
Specifications

50Hz

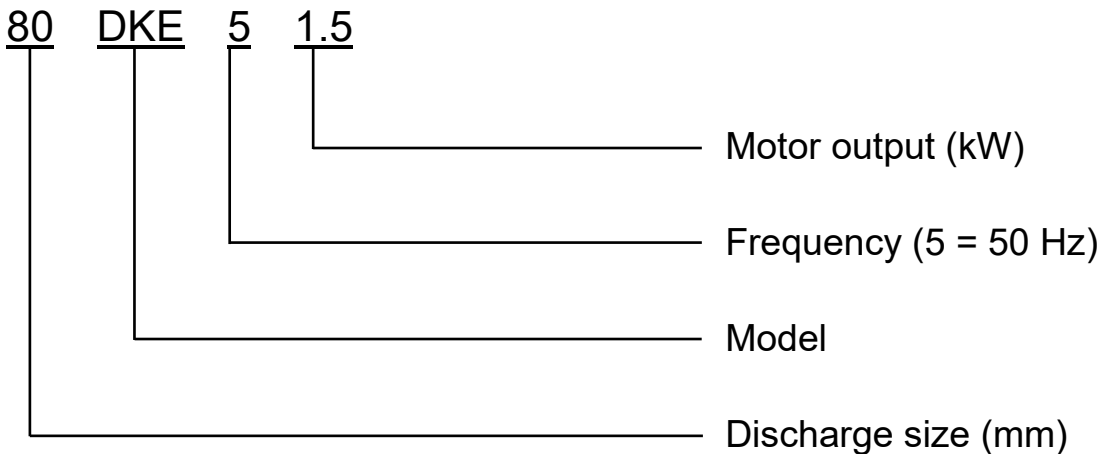
| | | | | |
|--------------|-----------------------------|---|---|--|
| Scope | Discharge | 65 — 300 mm | | |
| | Motor Power | 1.5 — 45 kW (3 phase) | | |
| | Performance | Capacity : 0.07 — 13 m ³ /min Head : 3 — 44 m | | |
| Liquid | Type | Sewage | | |
| | Temperature | 0 — 40°C | | |
| | Max.Diameter of Solids (mm) | Φ65 : 40 | Φ200 : 57 (18.5 to 22 kW :89) | |
| | | Φ80 : 50 (7.5 to 11 kW : 38) Φ100 : 45 (DKE 11 to 18.5 kW : 50) Φ150 : 50 (22kW:89 30 to 45kW:78) | (30 to 45 kW :78) Φ250 : 57 (30 to 45 kW :86) Φ300 : 86 | |
| Submergence | Maximum | 7 m | | |
| | Minimum | Refer to low water level (L.W.L) in dimensions. | | |
| Construction | Impeller | Back swept semi-open | | |
| | Mechanical Seal | Oil lubricated, double mechanical seal single spring up to 22 kW, tandem spring 30 and 45 kW | | |
| | Bearing | Prelubricated ball bearing | | |
| | Protection | Miniature thermal protector, Leakage detector (float type) | | |
| Materials | Casing | Cast iron | | |
| | Impeller | Cast iron | | |
| | Suction Cover | Cast iron | | |
| | Shaft | 403 Stainless steel | | |
| | Motor Frame | Cast iron | | |
| | Fasteners | 304 Stainless steel | | |
| | Mechanical Seal | Upper Face : Carbon / Ceramic Lower Face : Silicon Carbide / Silicon Carbide Lubricating Oil : Turbine Oil VG32 (SAE 10W / 20W) | | |
| Motor | Type | Air filled dry submersible, IP68, Class H insulation | | |
| | Number of poles | 4 pole | | |
| | Applicable Voltages | 380 / 400 / 415 Volts 3 phase 50 Hz | | |
| | Starting | DOL (up to 7.5 kW) Star-Delta (11 to 45 kW) | | |
| Cable | Length | 10 m | | |
| Accessories | Flange | Pump legs&bend pipe Quick Discharge Connector (QDC) | | |

Performance Chart

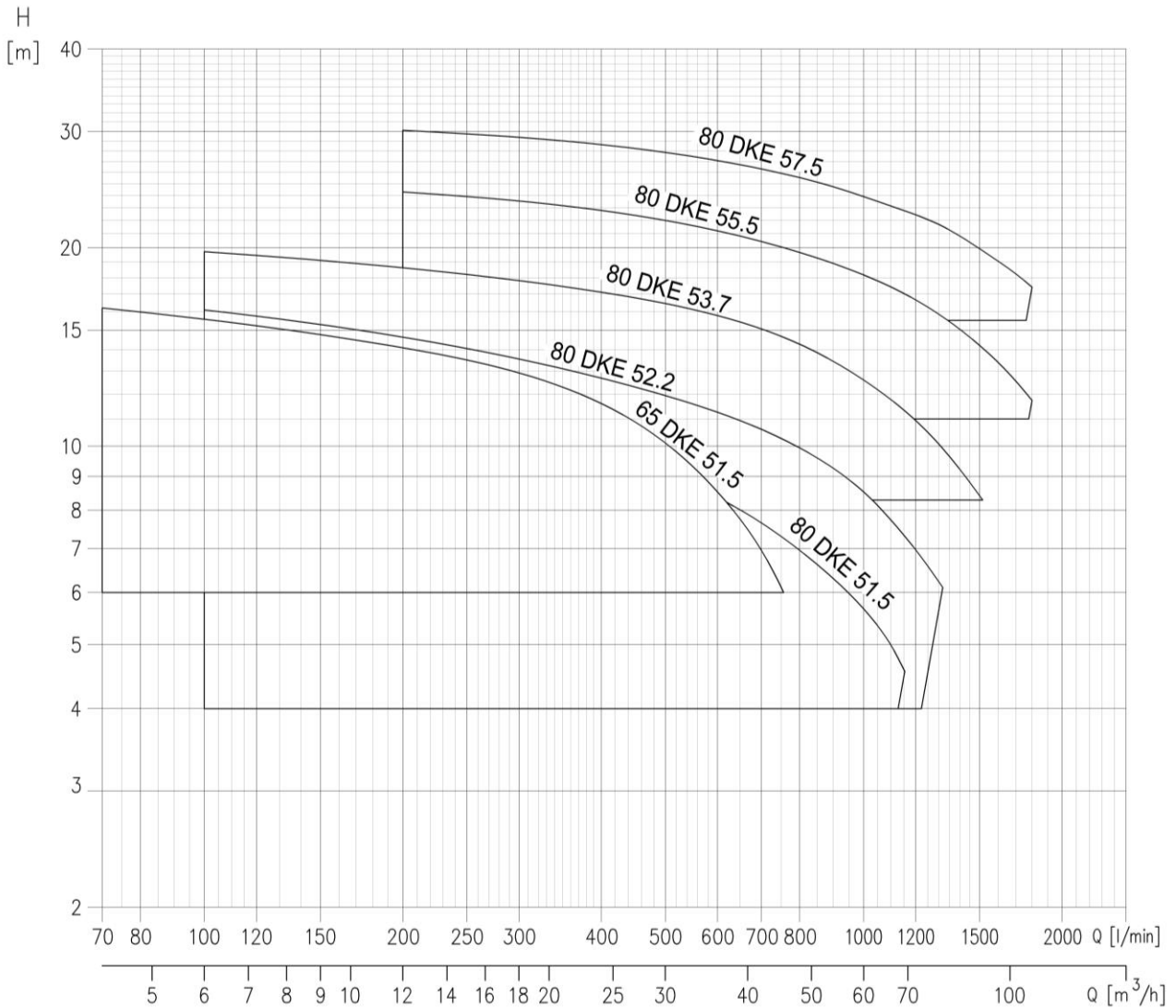
50Hz



Model code

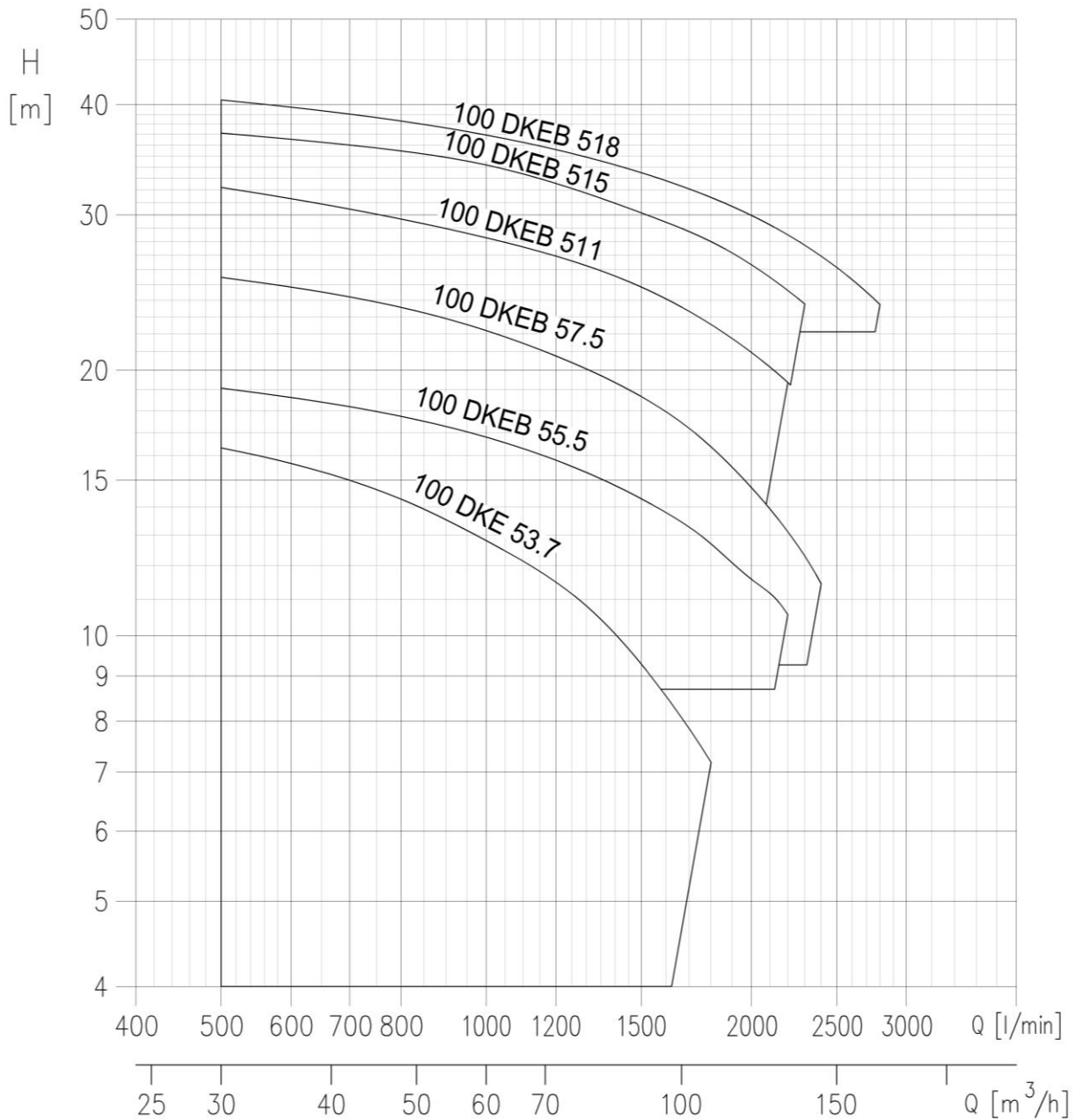


65DKE, 80DKE



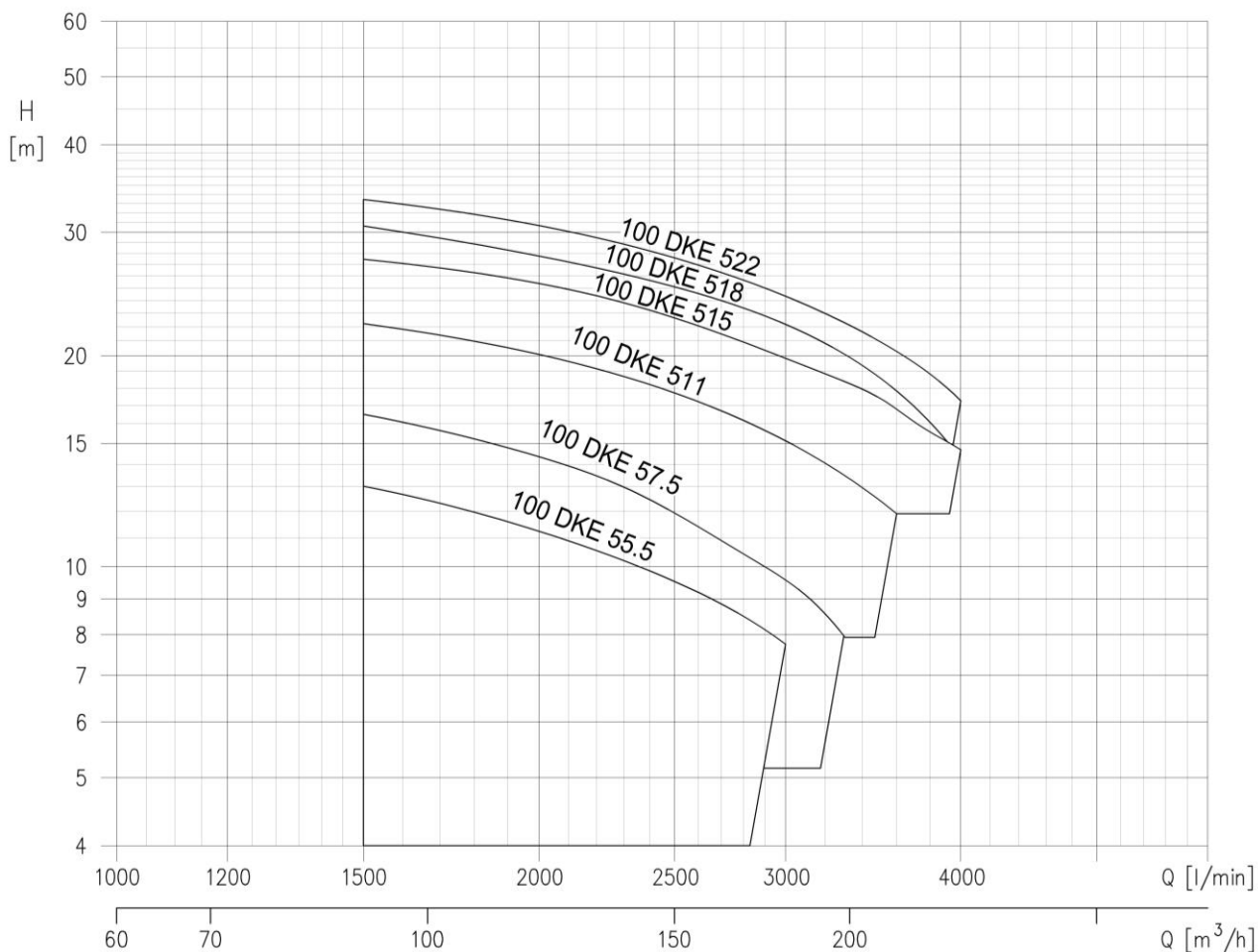
| Pump Type | Power | | Q=Capacity | | | | | | | | | | | | | |
|----------------------------------|-------|------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | l/min | | 0 | 70 | 100 | 150 | 200 | 450 | 600 | 800 | 900 | 1000 | 1150 | 1300 |
| | [kW] | [HP] | m ³ /h | 0 | 4.2 | 6 | 9 | 12 | 27 | 36 | 48 | 54 | 60 | 69 | 78 | 90 |
| H=Total manometric head in meter | | | | | | | | | | | | | | | | |
| 65DKE51.5 | 1.5 | 2 | 18.3 | 16.2 | 15.6 | 14.8 | 14.1 | 10.9 | 8.5 | 5.3 | - | - | - | - | - | - |
| 80DKE51.5 | 1.5 | 2 | 12.8 | - | 11.7 | 11.3 | 10.9 | 9.4 | 8.4 | 7.0 | 6.3 | 5.7 | 4.6 | - | - | - |
| 80DKE52.2 | 2.2 | 3 | 17.9 | - | 16.1 | 15.3 | 14.7 | 12.3 | 11.3 | 9.9 | 9.2 | 8.5 | 7.3 | 6.2 | - | - |
| 80DKE53.7 | 3.7 | 5 | 21.2 | - | - | - | 18.6 | 16.8 | 15.8 | 14.3 | 13.4 | 12.6 | 11.3 | 10.1 | 8.4 | - |
| 80DKE55.5 | 5.5 | 7.5 | 25.4 | - | - | - | 24.3 | 22.4 | 21.2 | 19.7 | 18.9 | 18.1 | 17.0 | 15.8 | 14.2 | 11.7 |
| 80DKE57.5 | 7.5 | 10 | 31.5 | - | - | - | 30.1 | 28.3 | 27.1 | 25.5 | 24.7 | 23.9 | 22.7 | 21.5 | 19.9 | 17.4 |

100DKEB



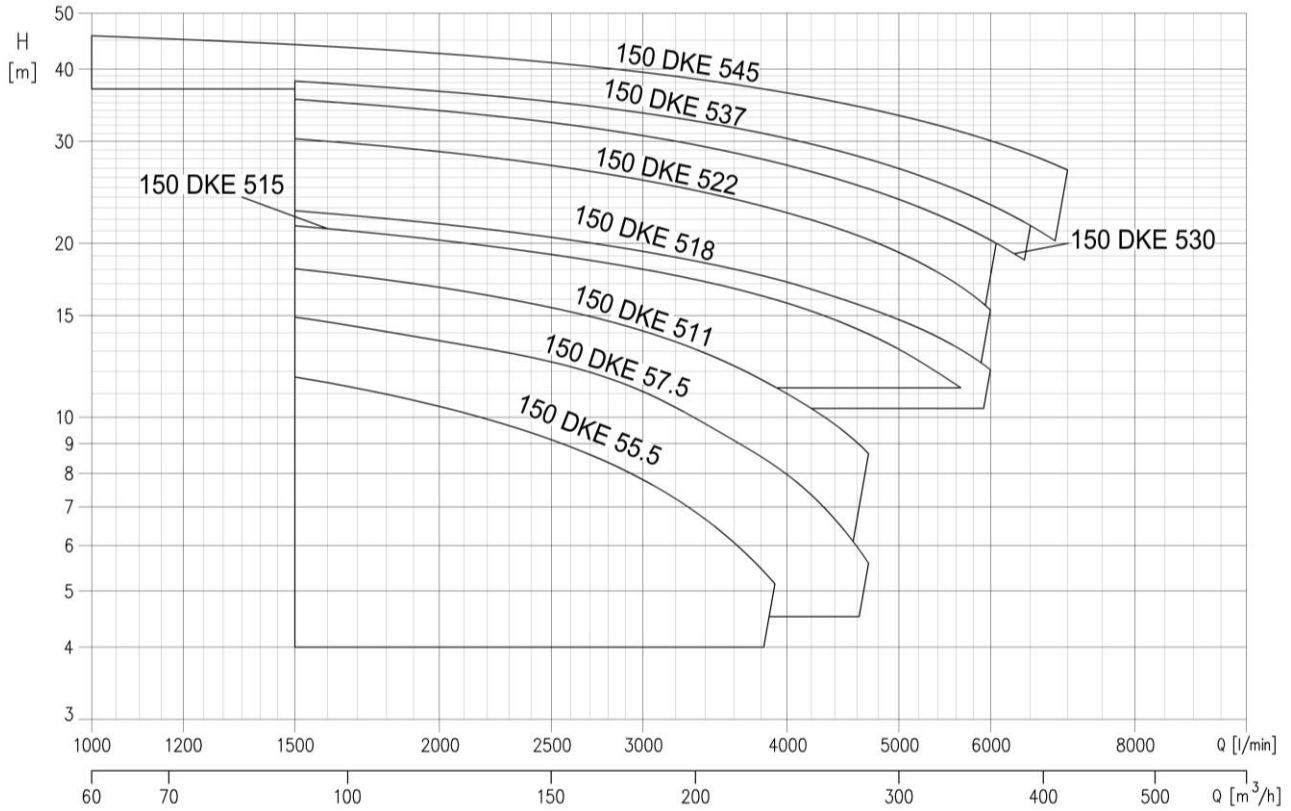
| Pump Type | Power | | Q=Capacity | | | | | | | | | | | | | |
|----------------------------------|-------|------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | l/min | 0 | 500 | 700 | 900 | 1000 | 1200 | 1500 | 1800 | 2000 | 2200 | 2300 | 2400 | 2500 |
| | [kW] | [HP] | m³/h | 0 | 30 | 42 | 54 | 60 | 72 | 90 | 108 | 120 | 132 | 138 | 144 | 150 |
| H=Total manometric head in meter | | | | | | | | | | | | | | | | |
| 100DKE53.7 | 5.5 | 7.5 | 20.9 | 16.3 | 15.0 | 13.6 | 12.9 | 11.4 | 9.2 | 7.2 | - | - | - | - | - | - |
| 100DKEB55.5 | 5.5 | 7.5 | 21.8 | 19.1 | 18.1 | 17.2 | 16.8 | 15.9 | 14.4 | 12.8 | 11.7 | 10.5 | - | - | - | - |
| 100DKEB57.5 | 7.5 | 10 | 28.6 | 25.5 | 24.2 | 22.9 | 22.2 | 20.8 | 18.6 | 16.4 | 14.8 | 13.1 | 12.2 | 11.3 | - | - |
| 100DKEB511 | 11 | 15 | 35.1 | 32.2 | 30.9 | 29.5 | 28.8 | 27.2 | 24.9 | 22.5 | 20.9 | 19.4 | - | - | - | - |
| 100DKEB515 | 15 | 20 | 40.7 | 37.2 | 36.0 | 34.8 | 34.1 | 32.7 | 30.4 | 28.0 | 26.3 | 24.6 | 23.8 | - | - | - |
| 100DKEB518 | 18.5 | 25 | 44.1 | 40.5 | 39.1 | 37.6 | 36.9 | 35.6 | 33.5 | 31.4 | 30.0 | 28.5 | 27.7 | 26.9 | 26.2 | 23.7 |

100DKE



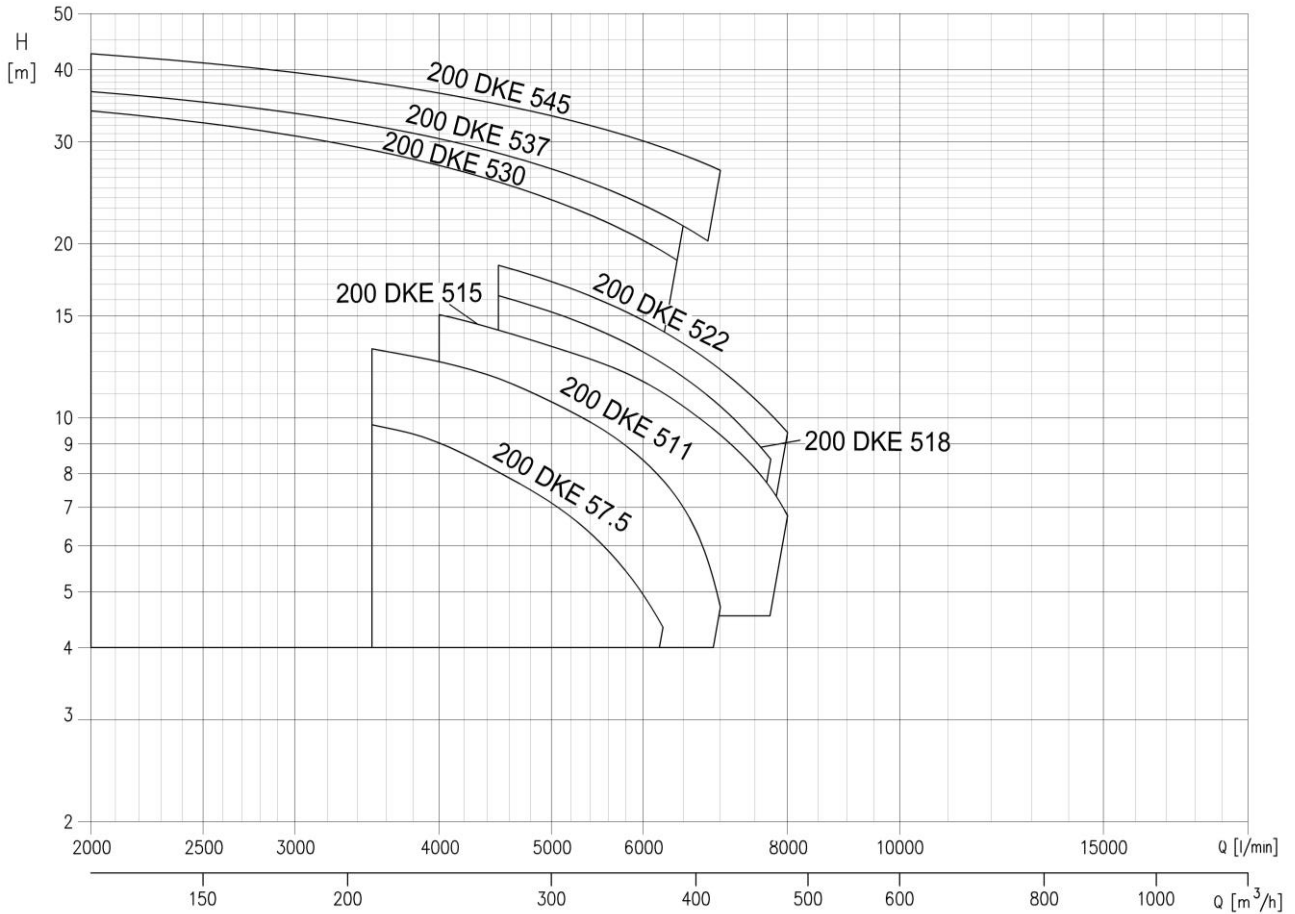
| Pump Type | Power | | Q=Capacity | | | | | | | | | | | | | |
|----------------------------------|-------|------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | l/min | 0 | 1500 | 1700 | 1800 | 1900 | 2000 | 2200 | 2400 | 2600 | 2800 | 3000 | 3300 | 3600 |
| | [kW] | [HP] | m ³ /h | 0 | 90 | 102 | 108 | 114 | 120 | 132 | 144 | 156 | 168 | 180 | 198 | 216 |
| H=Total manometric head in meter | | | | | | | | | | | | | | | | |
| 100DKE55.5 | 5.5 | 7.5 | 17.8 | 13.0 | 12.4 | 12.0 | 11.7 | 11.3 | 10.6 | 9.9 | 9.2 | 8.5 | 7.7 | - | - | - |
| 100DKE57.5 | 7.5 | 10 | 22.9 | 16.5 | 15.7 | 15.3 | 14.8 | 14.4 | 13.5 | 12.5 | 11.6 | 10.6 | 9.6 | 8.1 | - | - |
| 100DKE511 | 11 | 15 | 28.7 | 22.2 | 21.4 | 21.0 | 20.5 | 20.1 | 19.2 | 18.2 | 17.2 | 16.2 | 15.1 | 13.5 | 11.9 | - |
| 100DKE515 | 15 | 20 | 33.9 | 27.5 | 26.6 | 26.2 | 25.7 | 25.3 | 24.3 | 23.3 | 22.3 | 21.2 | 20.1 | 18.5 | 16.9 | 14.7 |
| 100DKE518 | 18.5 | 25 | 39.5 | 30.6 | 29.4 | 28.9 | 28.3 | 27.8 | 26.7 | 25.6 | 24.5 | 23.4 | 22.2 | 20.1 | 17.8 | 14.2 |
| 100DKE522 | 22 | 30 | 41.7 | 33.4 | 32.3 | 31.7 | 31.1 | 30.5 | 29.3 | 28.0 | 26.8 | 25.5 | 24.2 | 22.3 | 20.3 | 17.2 |

150DKE



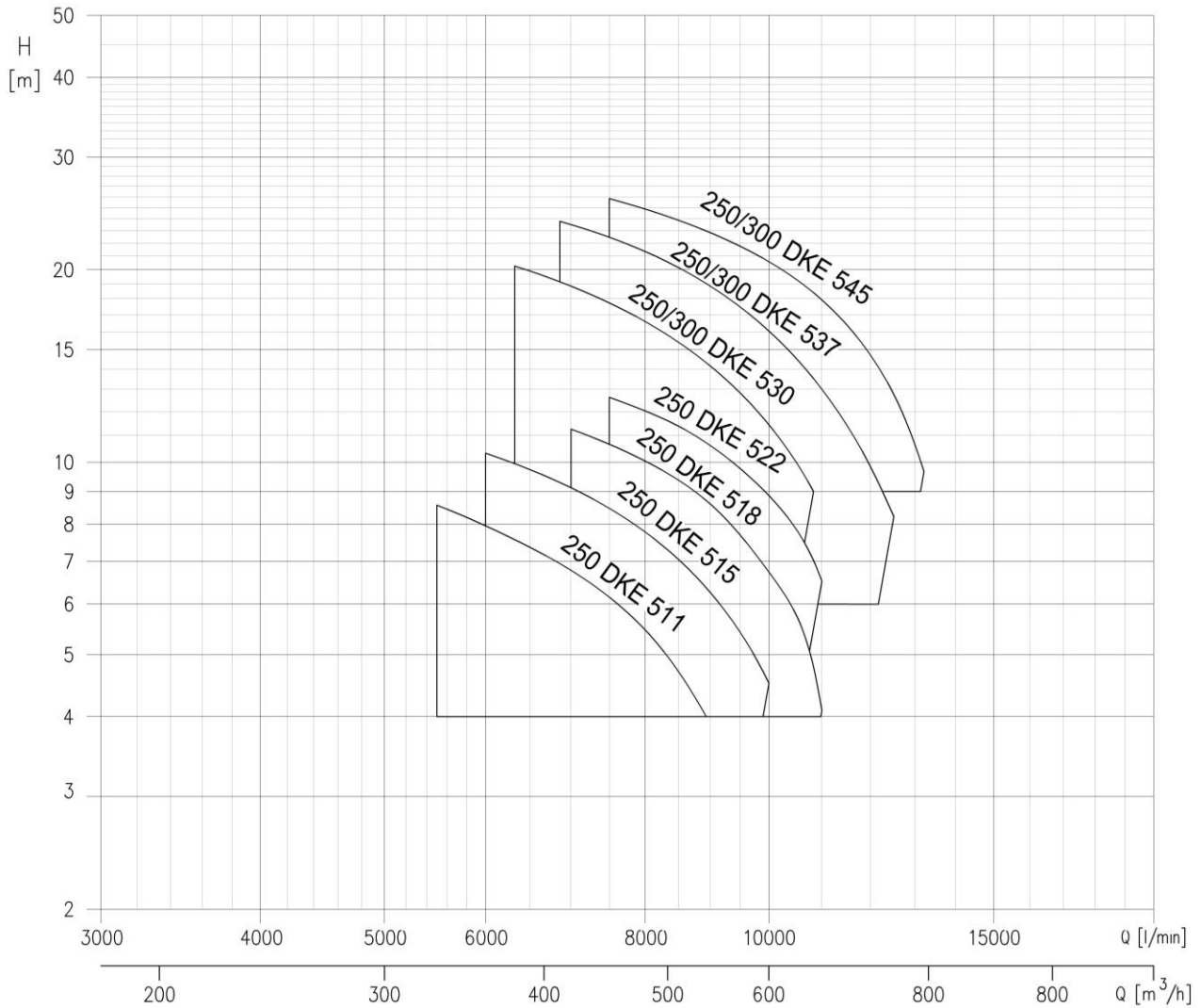
| Pump Type | Power | | Q=Capacity | | | | | | | | | | | | | | |
|----------------------------------|-------|------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | l/min | 0 | 1000 | 1500 | 2000 | 3000 | 3500 | 3900 | 4700 | 5000 | 5600 | 6000 | 6200 | 6500 | 7000 |
| | [kW] | [HP] | m³/h | 0 | 60 | 90 | 120 | 180 | 210 | 234 | 282 | 300 | 336 | 360 | 372 | 390 | 420 |
| H=Total manometric head in meter | | | | | | | | | | | | | | | | | |
| 150DKE55.5 | 5.5 | 7.5 | 15.1 | - | 11.7 | 10.5 | 7.8 | 6.4 | 5.2 | - | - | - | - | - | - | - | - |
| 150DKE57.5 | 7.5 | 10 | 18.1 | - | 14.9 | 13.7 | 11.1 | 9.6 | 8.3 | 5.6 | - | - | - | - | - | - | - |
| 150DKE511 | 11 | 15 | 22.5 | - | 18.1 | 16.8 | 14.0 | 12.5 | 11.3 | 8.7 | - | - | - | - | - | - | - |
| 150DKE515 | 15 | 20 | 25.5 | - | 21.5 | 20.3 | 18.0 | 16.9 | 16.0 | 13.9 | 13.1 | 11.4 | - | - | - | - | - |
| 150DKE518 | 18.5 | 25 | 26.8 | - | 22.7 | 21.6 | 19.4 | 18.3 | 17.4 | 15.4 | 14.7 | 13.0 | 11.9 | - | - | - | - |
| 150DKE522 | 22 | 30 | 34.9 | - | 30.3 | 28.8 | 25.7 | 24.2 | 22.9 | 20.3 | 19.3 | 17.0 | 15.3 | - | - | - | - |
| 150DKE530 | 30 | 40 | 39.1 | - | 35.5 | 34.0 | 30.7 | 29.0 | 27.6 | 24.9 | 23.8 | 21.7 | 20.3 | 19.5 | - | - | - |
| 150DKE537 | 37 | 50 | 42.7 | - | 38.1 | 36.7 | 33.6 | 32.0 | 30.7 | 28.0 | 26.9 | 24.8 | 23.3 | 22.6 | 21.5 | - | - |
| 150DKE545 | 45 | 60 | 48.8 | 45.7 | 44.2 | 42.6 | 39.5 | 38.0 | 36.7 | 34.2 | 33.3 | 31.4 | 30.1 | 29.5 | 28.5 | 26.8 | - |

200DKE



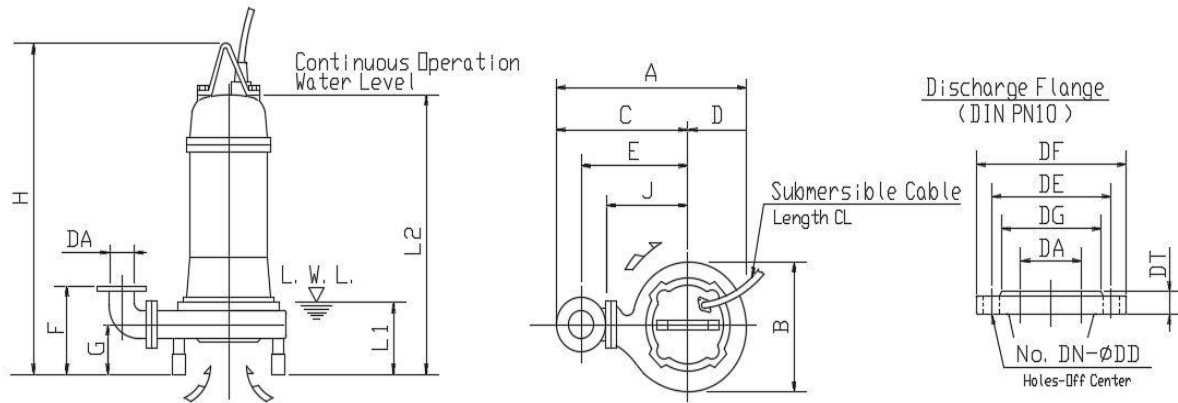
| Pump Type | Power | | Q=Capacity | | | | | | | | | | | | | |
|----------------------------------|-------|------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | l/min | 0 | 2000 | 3000 | 3500 | 4000 | 4500 | 5000 | 5500 | 6000 | 6200 | 6500 | 7000 | 7500 |
| | [kW] | [HP] | m ³ /h | 0 | 120 | 180 | 210 | 240 | 270 | 300 | 330 | 360 | 372 | 390 | 420 | 450 |
| H=Total manometric head in meter | | | | | | | | | | | | | | | | |
| 200DKE57.5 | 7.5 | 10 | 15.2 | - | - | 9.8 | 9.0 | 8.1 | 7.1 | 6.0 | 4.9 | 4.4 | - | - | - | - |
| 200DKE511 | 11 | 15 | 19.2 | - | - | 13.4 | 12.6 | 11.7 | 10.7 | 9.6 | 8.4 | 7.8 | 6.8 | 4.7 | - | - |
| 200DKE515 | 15 | 20 | 21.5 | - | - | - | 15.0 | 14.2 | 13.3 | 12.4 | 11.4 | 11.0 | 10.4 | 9.4 | 8.2 | 6.8 |
| 200DKE518 | 18.5 | 25 | 26.2 | - | - | - | - | 16.3 | 15.2 | 14.1 | 13.0 | 12.5 | 11.8 | 10.5 | 9.1 | - |
| 200DKE522 | 22 | 30 | 27.8 | - | - | - | - | 18.3 | 17.2 | 16.0 | 14.7 | 14.2 | 13.4 | 12.1 | 10.8 | 9.4 |
| 200DKE530 | 30 | 40 | 39.1 | 34.0 | 30.7 | 29.0 | 27.3 | 25.6 | 23.8 | 22.1 | 20.3 | 19.5 | - | - | - | - |
| 200DKE537 | 37 | 50 | 42.7 | 36.7 | 33.6 | 32.0 | 30.4 | 28.7 | 26.9 | 25.2 | 23.3 | 22.6 | 21.5 | - | - | - |
| 200DKE545 | 45 | 60 | 48.8 | 42.6 | 39.5 | 38.0 | 36.4 | 34.8 | 33.3 | 31.7 | 30.1 | 29.5 | 28.5 | 26.8 | - | - |

250DKE, 300DKE



| Pump Type | Power | | Q=Capacity | | | | | | | | | | | | | |
|----------------------------------|-------|------|------------|-----|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| | | | l/min | 0 | 5500 | 6000 | 6300 | 6800 | 7000 | 7500 | 8000 | 8900 | 10000 | 10800 | 11000 | 12500 |
| | [kW] | [HP] | m³/h | 0 | 330 | 360 | 378 | 408 | 420 | 450 | 480 | 534 | 600 | 648 | 660 | 750 |
| H=Total manometric head in meter | | | | | | | | | | | | | | | | |
| 250DKE511 | 11 | 15 | 14.2 | 8.4 | 7.9 | 7.6 | 7.0 | 6.8 | 6.2 | 5.5 | 4.1 | - | - | - | - | - |
| 250DKE515 | 15 | 20 | 16.6 | - | 10.3 | 10.0 | 9.4 | 9.1 | 8.5 | 7.8 | 6.4 | 4.5 | - | - | - | - |
| 250DKE518 | 18.5 | 25 | 18.0 | - | - | - | - | 11.2 | 10.7 | 10.0 | 8.8 | 6.7 | 4.7 | 4.1 | - | - |
| 250DKE522 | 22 | 30 | 19.5 | - | - | - | - | - | 12.7 | 12.1 | 10.8 | 8.8 | 7.0 | 6.5 | - | - |
| 250/300 DKE530 | 30 | 40 | 27.9 | - | - | 20.3 | 19.3 | 18.8 | 17.7 | 16.6 | 14.4 | 11.4 | 9.1 | - | - | - |
| 250/300DKE537 | 37 | 50 | 31.8 | - | - | - | 23.9 | 23.5 | 22.5 | 21.4 | 19.1 | 16.0 | 13.6 | 13.0 | 8.3 | - |
| 250/300DKE545 | 45 | 60 | 34.8 | - | - | - | - | - | 25.8 | 24.9 | 23.1 | 20.6 | 18.5 | 17.9 | 12.9 | 9.8 |

• DKE IE3 without QDC



Unit : mm

Note:

| DA | DE | DF | DG | DT | DN | DD |
|-----|-----|-----|-----|----|----|----|
| 65 | 145 | 185 | 118 | 20 | 4 | 18 |
| 80 | 160 | 200 | 138 | 22 | 8 | 18 |
| 100 | 180 | 220 | 158 | 24 | 8 | 18 |
| 150 | 240 | 285 | 211 | 26 | 8 | 22 |
| 200 | 295 | 340 | 266 | 26 | 8 | 22 |
| 250 | 350 | 395 | 319 | 30 | 12 | 22 |

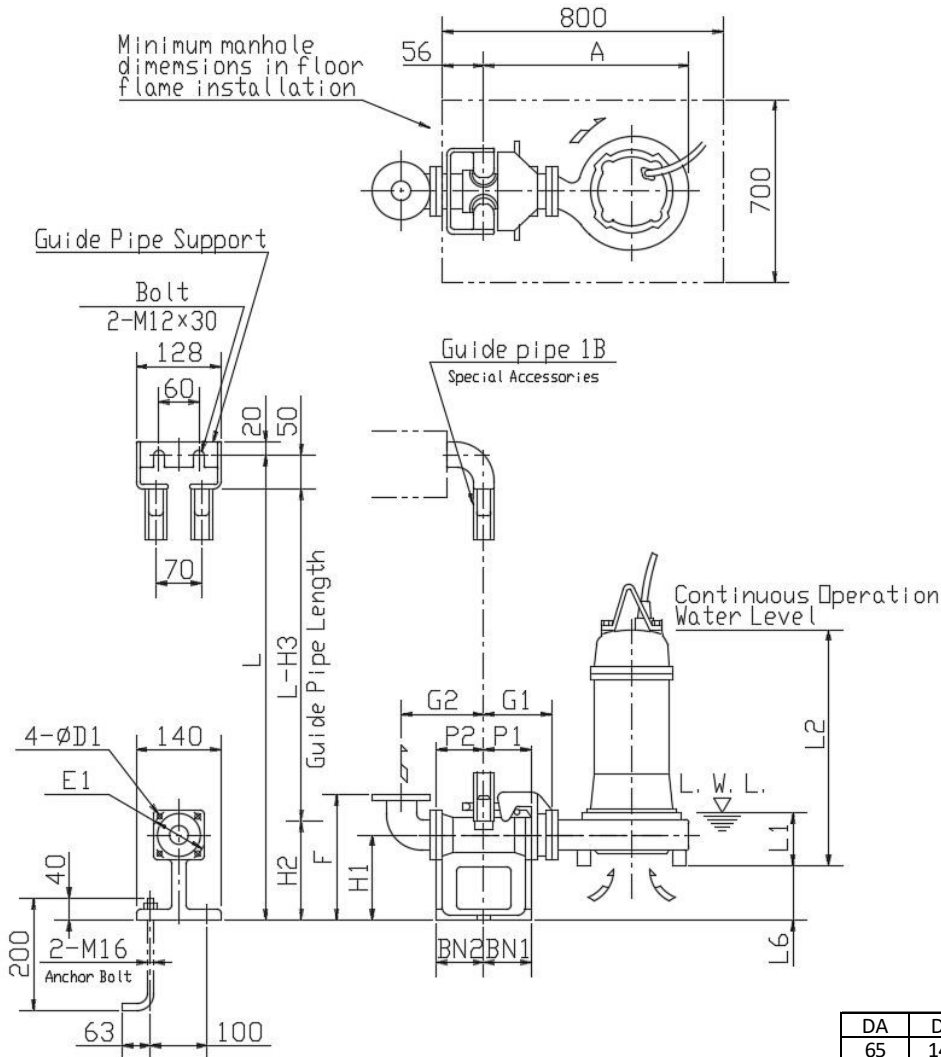
1/. L.W.L(Low Water Level)Is limited to 10 minutes operations at low water level.

2/. Is limited to 30 minutes operation with water level below top of motor.

Unit : mm

| DA | Pump model | Output KW | A | B | C | D | E | F | G | H | J | L1 | L2 | CL m | Weight kg |
|-----|---------------|-----------|------|-----|------|-----|-----|-----|-----|------|-----|-----|------|------|-----------|
| 65 | 65 DKE 51.5 | 1.5 | 580 | 294 | 433 | 147 | 340 | 357 | 217 | 769 | 200 | 265 | 675 | 10 | 61 |
| 80 | 80 DKE 51.5 | 1.5 | 632 | 295 | 484 | 148 | 384 | 370 | 206 | 765 | 220 | 262 | 671 | 10 | 60 |
| | 80 DKE 52.2 | 2.2 | 637 | 290 | 492 | 146 | 392 | 370 | 206 | 855 | 228 | 260 | 755 | 10 | 77 |
| | 80 DKE 53.7 | 3.7 | 661 | 323 | 506 | 155 | 406 | 370 | 206 | 848 | 242 | 267 | 748 | 10 | 88 |
| | 80 DKE 55.5 | 5.5 | 698 | 375 | 517 | 181 | 417 | 370 | 206 | 941 | 253 | 262 | 841 | 10 | 100 |
| | 80 DKE 57.5 | 7.5 | 744 | 394 | 550 | 194 | 450 | 370 | 206 | 941 | 286 | 262 | 841 | 10 | 133 |
| 100 | 100 DKEB 55.5 | 5.5 | 802 | 384 | 609 | 193 | 499 | 430 | 226 | 964 | 295 | 285 | 864 | 10 | 127 |
| | 100 DKEB 57.5 | 7.5 | 827 | 414 | 624 | 203 | 514 | 430 | 226 | 964 | 310 | 285 | 864 | 10 | 142 |
| | 100 DKEB 511 | 11 | 827 | 414 | 624 | 203 | 514 | 430 | 226 | 1063 | 310 | 285 | 903 | 10 | 175 |
| | 100 DKEB 515 | 15 | 854 | 436 | 639 | 215 | 529 | 430 | 226 | 1155 | 325 | 292 | 995 | 10 | 214 |
| | 100 DKEB 518 | 18.5 | 869 | 458 | 644 | 225 | 534 | 459 | 255 | 1177 | 330 | 321 | 1017 | 10 | 236 |
| 100 | 100 DKE 53.7 | 3.7 | 771 | 333 | 609 | 162 | 499 | 430 | 226 | 868 | 295 | 287 | 768 | 10 | 95 |
| | 100 DKE 55.5 | 5.5 | 816 | 414 | 609 | 207 | 499 | 480 | 276 | 993 | 295 | 376 | 893 | 10 | 132 |
| | 100 DKE 57.5 | 7.5 | 828 | 411 | 621 | 207 | 511 | 479 | 275 | 993 | 307 | 376 | 893 | 10 | 141 |
| | 100 DKE 511 | 11 | 840 | 438 | 624 | 216 | 514 | 479 | 275 | 1104 | 310 | 378 | 944 | 10 | 178 |
| | 100 DKE 515 | 15 | 867 | 456 | 642 | 226 | 532 | 479 | 275 | 1212 | 328 | 349 | 1052 | 10 | 212 |
| | 100 DKE 518 | 18.5 | 892 | 458 | 663 | 229 | 553 | 425 | 221 | 1137 | 349 | 293 | 977 | 10 | 231 |
| | 100 DKE 522 | 22 | 892 | 458 | 663 | 229 | 553 | 425 | 221 | 1137 | 349 | 293 | 977 | 10 | 244 |
| 150 | 150 DKE 55.5 | 5.5 | 953 | 422 | 744 | 209 | 601 | 584 | 300 | 1003 | 317 | 386 | 903 | 10 | 137 |
| | 150 DKE 57.5 | 7.5 | 953 | 422 | 744 | 209 | 601 | 584 | 300 | 1003 | 317 | 386 | 903 | 10 | 145 |
| | 150 DKE 511 | 11 | 993 | 479 | 751 | 242 | 608 | 560 | 276 | 1101 | 324 | 375 | 941 | 10 | 186 |
| | 150 DKE 515 | 15 | 1015 | 480 | 771 | 244 | 628 | 584 | 300 | 1211 | 344 | 405 | 1051 | 10 | 211 |
| | 150 DKE 518 | 18.5 | 1015 | 480 | 771 | 244 | 628 | 584 | 300 | 1225 | 344 | 405 | 1065 | 10 | 232 |
| | 150 DKE 522 | 22 | 1067 | 474 | 832 | 236 | 689 | 636 | 352 | 1270 | 405 | 435 | 1110 | 10 | 292 |
| 200 | 200 DKE 57.5 | 7.5 | 1177 | 513 | 921 | 256 | 751 | 675 | 308 | 1035 | 384 | 418 | 935 | 10 | 176 |
| | 200 DKE 511 | 11 | 1202 | 533 | 935 | 267 | 765 | 675 | 308 | 1130 | 398 | 404 | 970 | 10 | 213 |
| | 200 DKE 515 | 15 | 1212 | 557 | 934 | 278 | 764 | 700 | 333 | 1238 | 397 | 432 | 1078 | 10 | 240 |
| | 200 DKE 518 | 18.5 | 1304 | 604 | 1000 | 305 | 830 | 733 | 366 | 1290 | 463 | 455 | 1130 | 10 | 318 |
| | 200 DKE 522 | 22 | 1304 | 604 | 1000 | 305 | 830 | 733 | 366 | 1290 | 463 | 455 | 1130 | 10 | 330 |
| 250 | 250 DKE 511 | 11 | 1370 | 594 | 1074 | 297 | 876 | 815 | 364 | 1206 | 425 | 480 | 1046 | 10 | 238 |
| | 250 DKE 515 | 15 | 1370 | 594 | 1074 | 297 | 876 | 815 | 364 | 1286 | 425 | 480 | 1126 | 10 | 261 |
| | 250 DKE 518 | 18.5 | 1370 | 594 | 1074 | 297 | 876 | 815 | 364 | 1300 | 425 | 480 | 1140 | 10 | 281 |
| | 250 DKE 522 | 22 | 1370 | 594 | 1074 | 297 | 876 | 815 | 364 | 1300 | 425 | 480 | 1140 | 10 | 294 |

• Applicable Models – DKE IE3 with QDC LM65DI, LM80DI



Note:

1/. For detailed dimensions of the pumps, refer to separate dimension data sheets.

2/. The weight in dimension tables refers only to the weight of the QDC.

3/. Standard accessories supplied with QDC include:-

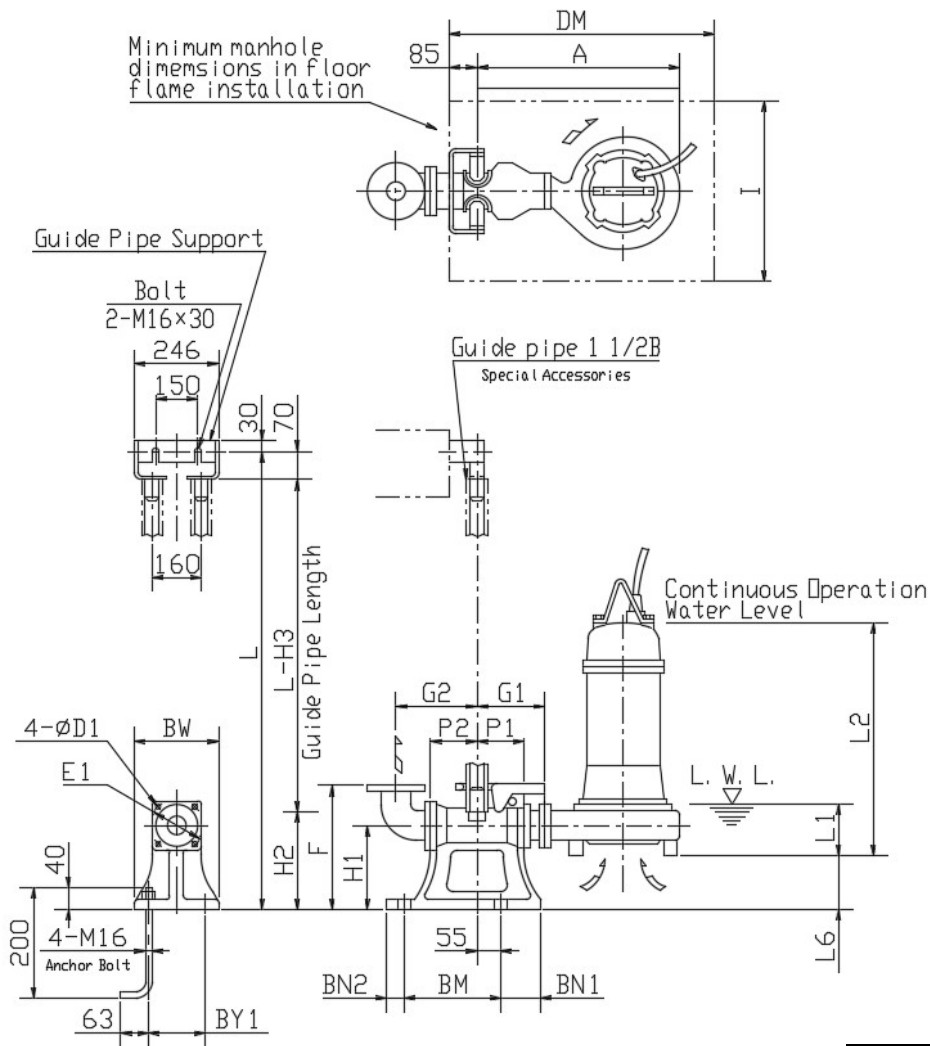
- Connector body with foundation bolts.
- Guide pipe support
- Sliding Glide
- Adaptor Flange

Guide Pipe is not supplied.

| DA | DE | DF | DG | DT | DN | DD |
|----|-----|-----|-----|----|----|----|
| 65 | 145 | 185 | 118 | 20 | 4 | 18 |
| 80 | 160 | 200 | 138 | 22 | 8 | 18 |

| DA | QDC model | Pump model | Quick discharge connector | | | | | | | | | | | | | | Weight kg | | |
|----|-----------|-------------|---------------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|-----------|-----|----|
| | | | A | P1 | P2 | G1 | G2 | F | H1 | H2 | H3 | L1 | L2 | L6 | BN1 | BN2 | | D1 | E1 |
| 80 | LM80DI | 65 DKE 51.5 | 467 | 75 | 95 | 120 | 160 | 250 | 145 | 190 | 240 | 165 | 575 | 29 | 75 | 95 | 12 | 140 | 14 |
| | | 80 DKE 51.5 | 493 | 75 | 90 | 125 | 165 | 285 | 175 | 230 | 280 | 162 | 571 | 69 | 75 | 90 | 15 | 155 | 17 |
| | | 80 DKE 52.2 | 498 | 75 | 90 | 125 | 165 | 285 | 175 | 230 | 280 | 160 | 655 | 69 | 75 | 90 | 15 | 155 | 17 |
| | | 80 DKE 53.7 | 522 | 75 | 90 | 125 | 165 | 285 | 175 | 230 | 280 | 167 | 648 | 69 | 75 | 90 | 15 | 155 | 17 |

• Applicable Models – DKE IE3 with QDC LL80DI



Note:

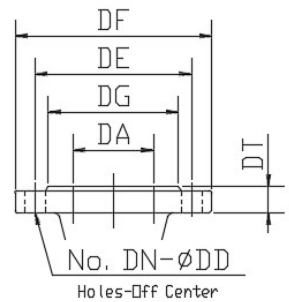
1/. For detailed dimensions of the pumps, refer to separate dimension data sheets.

2/. The weight in dimension tables refers only to the weight of the QDC.

3/. Standard accessories supplied with QDC include: -

- Connector body with foundation bolts.
 - Guide pipe support
 - Sliding Glide
 - Adaptor Flange
- Guide Pipe is not supplied.

Discharge Flange
(DIN PN10)



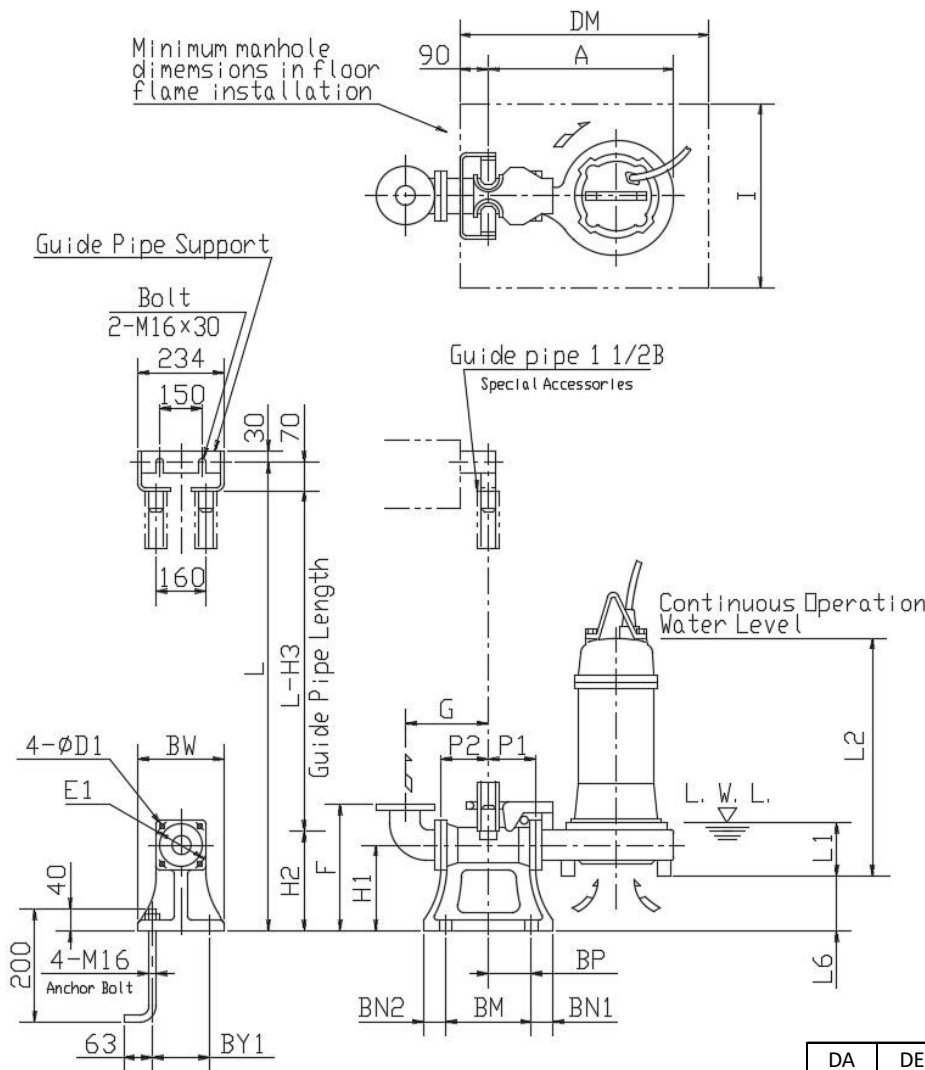
Unit : mm

| DA | DE | DF | DG | DT | DN | DD |
|----|-----|-----|-----|----|----|----|
| 80 | 160 | 200 | 138 | 18 | 8 | 18 |

Unit : mm

| DA | QDC model | Pump model | Quick discharge connector | | | | | | | | | | | | | | | | | | | Weight kg | | |
|----|-----------|-------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------------|-----|----|
| | | | A | P1 | P2 | G1 | G2 | F | H1 | H2 | H3 | L1 | L2 | L6 | BN1 | BN2 | BM | BY1 | BW | DM | I | | D1 | E1 |
| 80 | LL80DI | 80 DKE 55.5 | 619 | 105 | 120 | 185 | 195 | 350 | 240 | 255 | 325 | 162 | 741 | 134 | 100 | 40 | 220 | 180 | 230 | 800 | 700 | 15 | 155 | 44 |
| | | 80 DKE 57.5 | 665 | 105 | 120 | 185 | 195 | 350 | 240 | 255 | 325 | 162 | 741 | 134 | 100 | 40 | 220 | 180 | 230 | 800 | 700 | 15 | 155 | 44 |

• Applicable Models – DKE IE3 with QDC LL100F



Note:

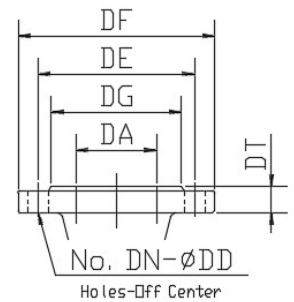
1/. For detailed dimensions of the pumps, refer to separate dimension data sheets.

2/. The weight in dimension tables refers only to the weight of the QDC.

3/. Standard accessories supplied with QDC include: -

- Connector body with foundation bolts.
 - Guide pipe support
 - Sliding Glide
 - Adaptor Flange
- Guide Pipe is not supplied.

Discharge Flange
(DIN PN10)



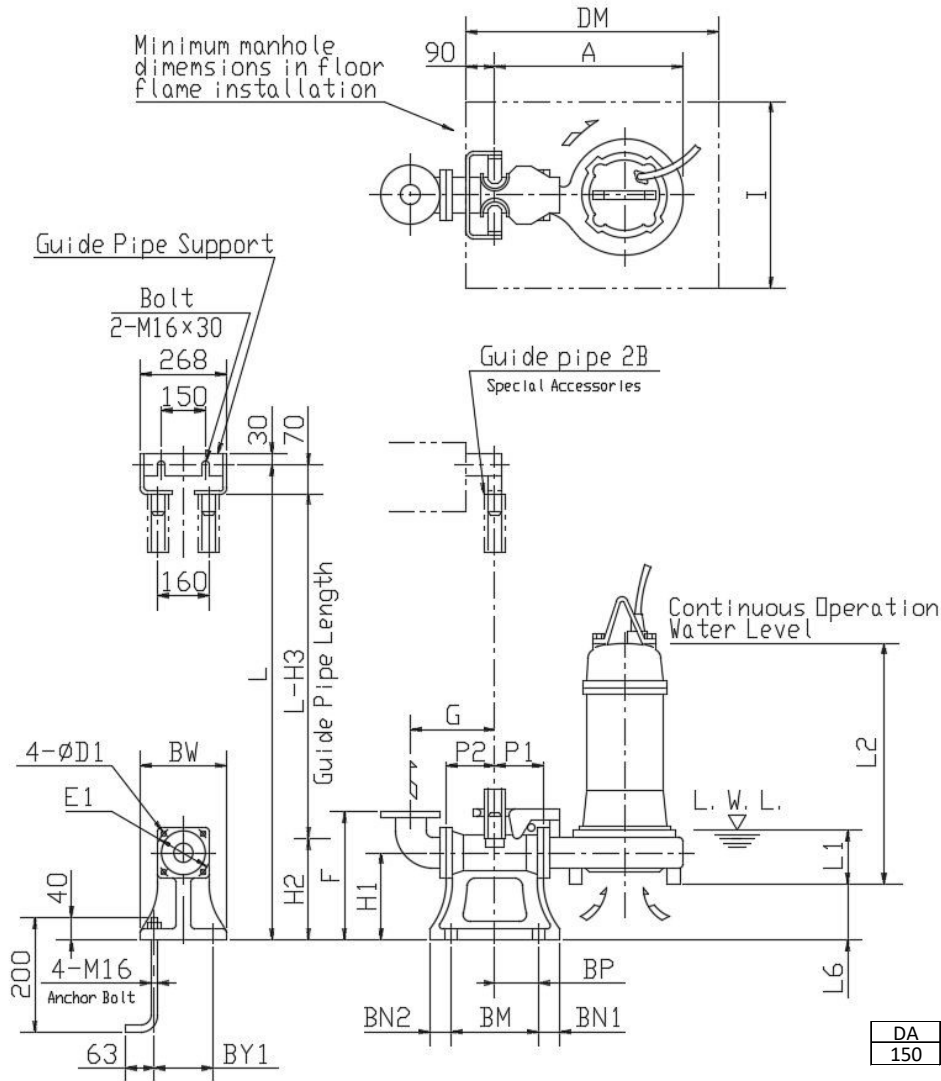
Unit : mm

| DA | DE | DF | DG | DT | DN | DD |
|-----|-----|-----|-----|----|----|----|
| 100 | 180 | 220 | 158 | 24 | 8 | 18 |

Unit : mm

| DA | QDC model | Pump model | Quick discharge connector | | | | | | | | | | | | | | | | | Weight kg | | | | |
|-----|-----------|---------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|--------------|-----|----|-----|----|
| | | | A | P1 | P2 | G | F | H1 | H2 | H3 | L1 | L2 | L6 | BN1 | BN2 | BM | BP | BY1 | BW | | DM | I | D1 | E1 |
| 100 | LL100F | 100 DKEB 55.5 | 593 | 105 | 105 | 210 | 365 | 240 | 265 | 335 | 185 | 764 | 114 | 100 | 40 | 220 | 55 | 180 | 230 | 800 | 700 | 19 | 175 | 46 |
| | | 100 DKEB 57.5 | 618 | 105 | 105 | 210 | 365 | 240 | 265 | 335 | 185 | 764 | 114 | 100 | 40 | 220 | 55 | 180 | 230 | 800 | 700 | 19 | 175 | 46 |
| | | 100 DKEB 511 | 618 | 105 | 105 | 210 | 365 | 240 | 265 | 335 | 185 | 803 | 114 | 100 | 40 | 220 | 55 | 180 | 230 | 1000 | 700 | 19 | 175 | 46 |
| | | 100 DKEB 515 | 645 | 105 | 105 | 210 | 365 | 240 | 265 | 335 | 192 | 895 | 115 | 100 | 40 | 220 | 55 | 180 | 230 | 1000 | 700 | 19 | 175 | 46 |
| | | 100 DKEB 518 | 660 | 105 | 105 | 210 | 365 | 240 | 265 | 335 | 221 | 917 | 85 | 100 | 40 | 220 | 55 | 180 | 230 | 1000 | 700 | 19 | 175 | 46 |
| 100 | LL100F | 100 DKE 53.7 | 562 | 105 | 105 | 210 | 365 | 240 | 265 | 335 | 187 | 668 | 114 | 100 | 40 | 220 | 55 | 180 | 230 | 800 | 700 | 19 | 175 | 46 |
| | | 100 DKE 55.5 | 607 | 105 | 105 | 210 | 365 | 240 | 265 | 335 | 226 | 743 | 114 | 100 | 40 | 220 | 55 | 180 | 230 | 800 | 700 | 19 | 175 | 46 |
| | | 100 DKE 57.5 | 619 | 105 | 105 | 210 | 365 | 240 | 265 | 335 | 226 | 743 | 115 | 100 | 40 | 220 | 55 | 180 | 230 | 800 | 700 | 19 | 175 | 46 |
| | | 100 DKE 511 | 631 | 105 | 105 | 210 | 365 | 240 | 265 | 335 | 228 | 794 | 115 | 100 | 40 | 220 | 55 | 180 | 230 | 1000 | 700 | 19 | 175 | 46 |
| | | 100 DKE 515 | 658 | 105 | 105 | 210 | 365 | 240 | 265 | 335 | 199 | 902 | 115 | 100 | 40 | 220 | 55 | 180 | 230 | 1000 | 700 | 19 | 175 | 46 |
| | | 100 DKE 518 | 683 | 105 | 105 | 210 | 365 | 240 | 265 | 335 | 193 | 877 | 119 | 100 | 40 | 220 | 55 | 180 | 230 | 1000 | 700 | 19 | 175 | 46 |
| | | 100 DKE 522 | 683 | 105 | 105 | 210 | 365 | 240 | 265 | 335 | 193 | 877 | 119 | 100 | 40 | 220 | 55 | 180 | 230 | 1000 | 700 | 19 | 175 | 46 |

• Applicable Models – DKE IE3 with QDC LL150F, LL150YF



Note:

1/. For detailed dimensions of the pumps, refer to separate dimension data sheets.

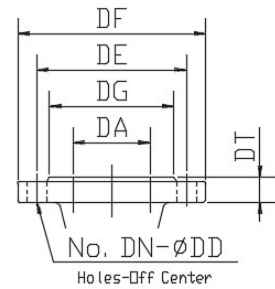
2/. The weight in dimension tables refers only to the weight of the QDC.

3/. Standard accessories supplied with QDC include:-

- Connector body with foundation bolts.
- Guide pipe support
- Sliding Glide
- Adaptor Flange

Guide Pipe is not supplied.

Discharge Flange
(DIN PN10)

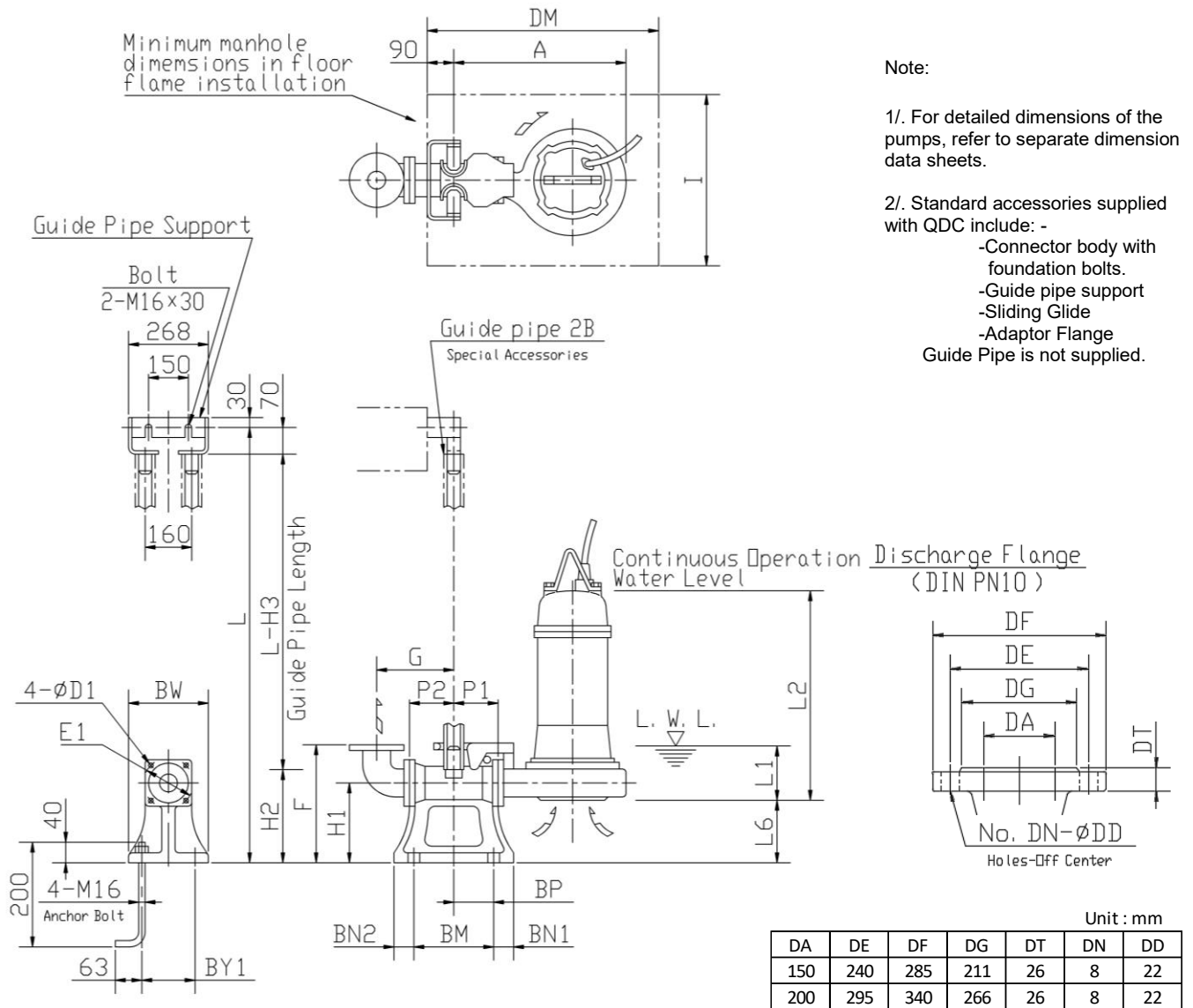


Unit : mm

| DA | DE | DF | DG | DT | DN | DD |
|-----|-----|-----|-----|----|----|----|
| 150 | 240 | 285 | 211 | 22 | 8 | 22 |

| DA | QDC model | Pump model | Quick discharge connector | | | | | | | | | | | | | | | | | | | | Weight kg | |
|-----|-----------|--------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|----|--------------|----|
| | | | A | P1 | P2 | G | F | H1 | H2 | H3 | L1 | L2 | L6 | BN1 | BN2 | BM | BP | BY1 | BW | DM | I | D1 | | E1 |
| 150 | LL150F | 150 DKE 55.5 | 681 | 155 | 205 | 355 | 480 | 320 | 405 | 475 | 236 | 753 | 170 | 60 | 60 | 390 | 170 | 300 | 350 | 1100 | 800 | 16 | 250 | 80 |
| | | 150 DKE 57.5 | 681 | 155 | 205 | 355 | 480 | 320 | 405 | 475 | 236 | 753 | 170 | 60 | 60 | 390 | 170 | 300 | 350 | 1100 | 800 | 16 | 250 | 80 |
| | | 150 DKE 511 | 721 | 155 | 205 | 355 | 480 | 320 | 405 | 475 | 250 | 816 | 170 | 60 | 60 | 390 | 170 | 300 | 350 | 1100 | 800 | 16 | 250 | 80 |
| | | 150 DKE 515 | 743 | 155 | 205 | 355 | 480 | 320 | 405 | 475 | 255 | 901 | 170 | 60 | 60 | 390 | 170 | 300 | 350 | 1100 | 800 | 16 | 250 | 80 |
| | | 150 DKE 518 | 743 | 155 | 205 | 355 | 480 | 320 | 405 | 475 | 255 | 915 | 170 | 60 | 60 | 390 | 170 | 300 | 350 | 1100 | 800 | 16 | 250 | 80 |
| 150 | LL150YF | 150 DKE 522 | 796 | 155 | 205 | 355 | 480 | 320 | 405 | 475 | 260 | 935 | 143 | 60 | 60 | 390 | 170 | 300 | 350 | 1100 | 800 | 16 | 250 | 80 |

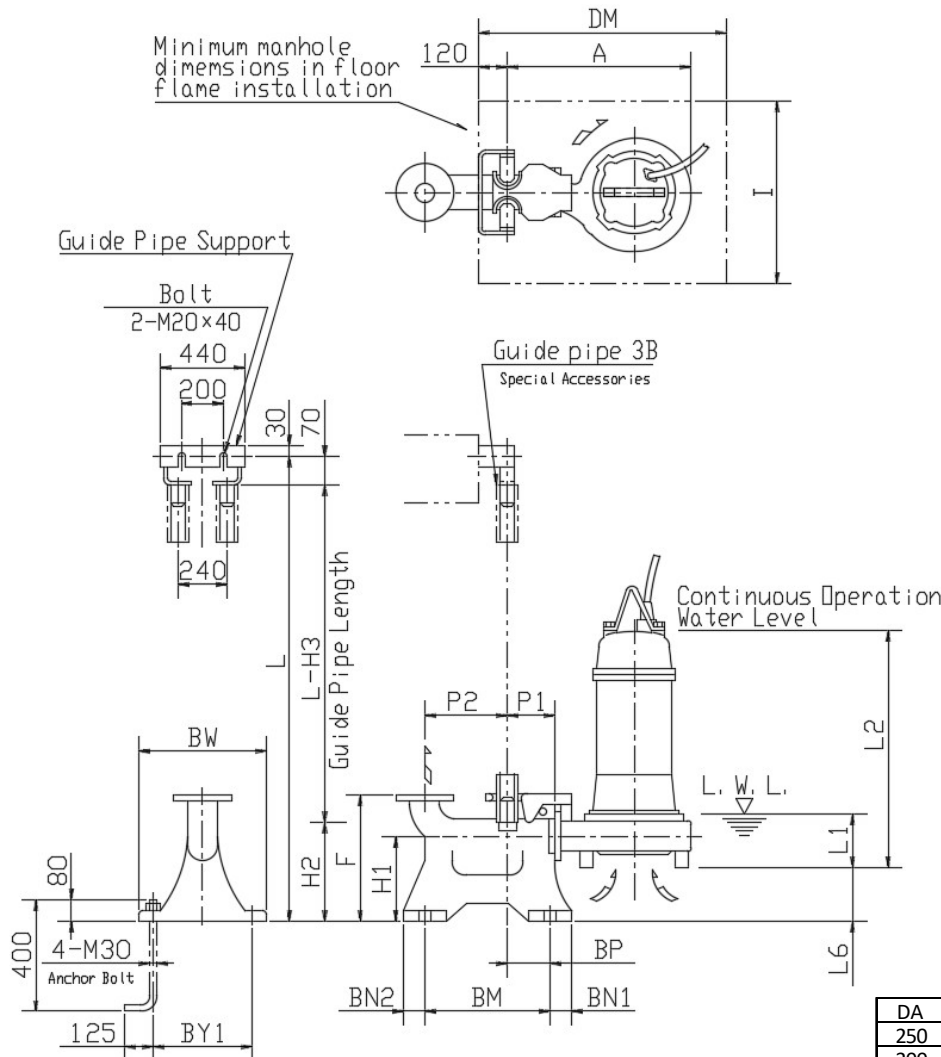
• Applicable Models – DKE IE3 with QDC LL150 (30kW~45kW)



Unit : mm

| Size DA | QDC model | Pump model | Quick discharge connector | | | | | | | | | | | | | | | | | | | Weight kg | | | |
|---------|-----------|-------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----------|-----|-----|------|
| | | | A | P1 | P2 | G | F | H1 | H2 | H3 | L1 | L2 | L6 | BN1 | BN2 | BM | BP | BY1 | BW | DM | I | D1 | E1 | QDC | Pump |
| 150 | LL150 | 150 DKE 530 | 777 | 155 | 205 | 355 | 480 | 320 | 405 | 475 | 215 | 1004 | 209 | 60 | 60 | 390 | 170 | 300 | 350 | 1100 | 800 | 16 | 250 | 80 | 308 |
| | | 150 DKE 537 | 777 | 155 | 205 | 355 | 480 | 320 | 405 | 475 | 215 | 1112 | 209 | 60 | 60 | 390 | 170 | 300 | 350 | 1100 | 800 | 16 | 250 | 80 | 364 |
| | | 150 DKE 545 | 777 | 155 | 205 | 355 | 480 | 320 | 405 | 475 | 215 | 1112 | 209 | 60 | 60 | 390 | 170 | 300 | 350 | 1100 | 800 | 16 | 250 | 80 | 386 |
| 200 | LL150 | 200 DKE 530 | 777 | 155 | 205 | 355 | 495 | 320 | 405 | 475 | 215 | 1004 | 209 | 60 | 60 | 390 | 170 | 300 | 350 | 1100 | 800 | 16 | 250 | 80 | 308 |
| | | 200 DKE 537 | 777 | 155 | 205 | 355 | 495 | 320 | 405 | 475 | 215 | 1112 | 209 | 60 | 60 | 390 | 170 | 300 | 350 | 1100 | 800 | 16 | 250 | 80 | 364 |
| | | 200 DKE 545 | 777 | 155 | 205 | 355 | 495 | 320 | 405 | 475 | 215 | 1112 | 209 | 60 | 60 | 390 | 170 | 300 | 350 | 1100 | 800 | 16 | 250 | 80 | 386 |

- **Applicable Model – DKE IE3 with QDC LL250F, LL250YF, LL300F**



Note:

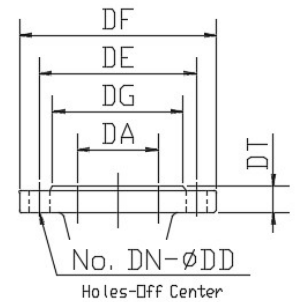
1/. For detailed dimensions of the pumps, refer to separate dimension data sheets.

2/. The weight in dimension tables refers only to the weight of the QDC.

3/. Standard accessories supplied with QDC include: -

- Connector body with foundation bolts.
 - Guide pipe support
 - Sliding Glide
 - Adaptor Flange
- Guide Pipe is not supplied.

Discharge Flange
(DIN PN10)



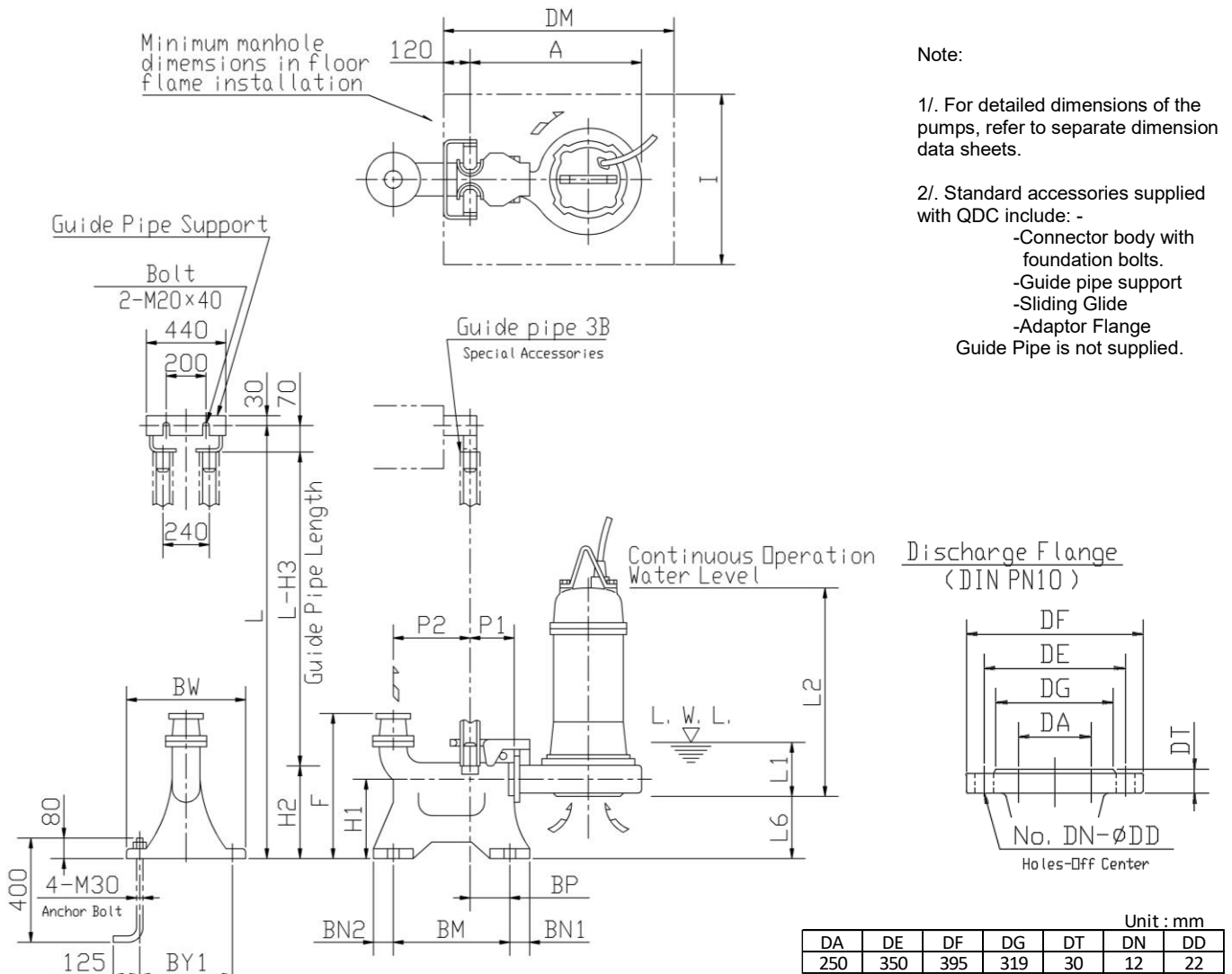
Unit : mm

| DA | DE | DF | DG | DT | DN | DD |
|-----|-----|-----|-----|----|----|----|
| 250 | 350 | 395 | 319 | 30 | 12 | 22 |
| 300 | 400 | 445 | 370 | 32 | 12 | 22 |

Unit : mm

| DA | QDC model | Pump model | Quick discharge connector | | | | | | | | | | | | | | | | | Weight kg | |
|-----|-----------|--------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|--------------|-----|
| | | | A | P1 | P2 | F | H1 | H2 | H3 | L1 | L2 | L6 | BN1 | BN2 | BM | BP | BY1 | BW | DM | | I |
| 250 | LL250F | 200 DKE 57.5 | 835 | 195 | 435 | 700 | 350 | 440 | 510 | 293 | 810 | 167 | 70 | 70 | 650 | 215 | 500 | 560 | 1200 | 900 | 150 |
| | | 200 DKE 511 | 860 | 195 | 435 | 700 | 350 | 440 | 510 | 279 | 845 | 167 | 70 | 70 | 650 | 215 | 500 | 560 | 1200 | 900 | 150 |
| | | 200 DKE 515 | 870 | 195 | 435 | 700 | 350 | 440 | 510 | 282 | 928 | 167 | 70 | 70 | 650 | 215 | 500 | 560 | 1200 | 900 | 150 |
| 250 | LL250YF | 200 DKE 518 | 962 | 195 | 435 | 700 | 350 | 440 | 510 | 280 | 955 | 160 | 70 | 70 | 650 | 215 | 500 | 560 | 1200 | 900 | 150 |
| | | 200 DKE 522 | 962 | 195 | 435 | 700 | 350 | 440 | 510 | 280 | 955 | 160 | 70 | 70 | 650 | 215 | 500 | 560 | 1200 | 900 | 150 |
| 300 | LL300F | 250 DKE 511 | 917 | 195 | 465 | 800 | 430 | 550 | 620 | 330 | 896 | 216 | 70 | 70 | 680 | 215 | 580 | 640 | 1200 | 900 | 200 |
| | | 250 DKE 515 | 917 | 195 | 465 | 800 | 430 | 550 | 620 | 330 | 976 | 216 | 70 | 70 | 680 | 215 | 580 | 640 | 1200 | 900 | 200 |
| | | 250 DKE 518 | 917 | 195 | 465 | 800 | 430 | 550 | 620 | 330 | 990 | 216 | 70 | 70 | 680 | 215 | 580 | 640 | 1200 | 900 | 200 |
| | | 250 DKE 522 | 917 | 195 | 465 | 800 | 430 | 550 | 620 | 330 | 990 | 216 | 70 | 70 | 680 | 215 | 580 | 640 | 1200 | 900 | 200 |

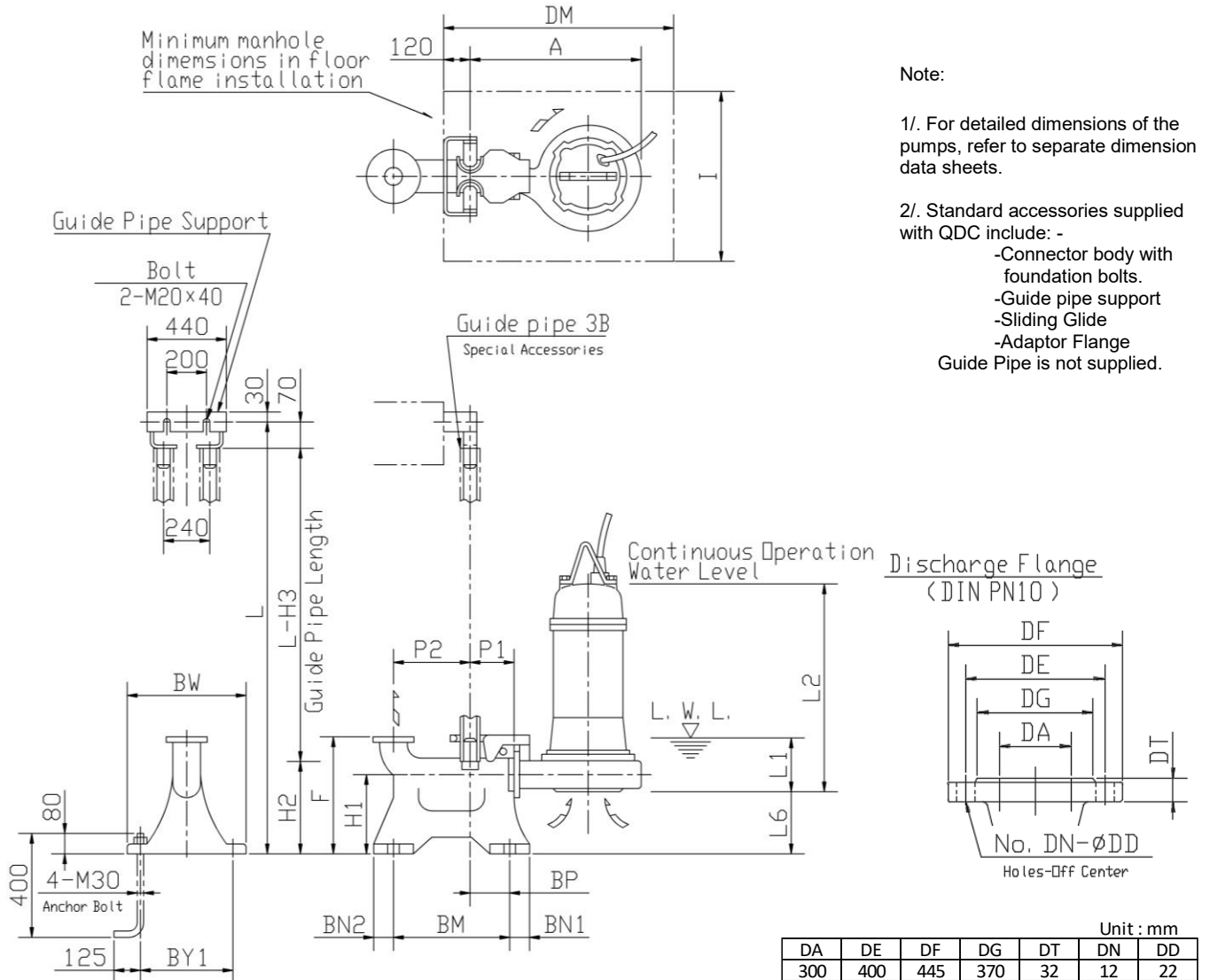
- Applicable Models – DKE IE3 with QDC LL300 (250DKE 30kW~45kW)



Unit : mm

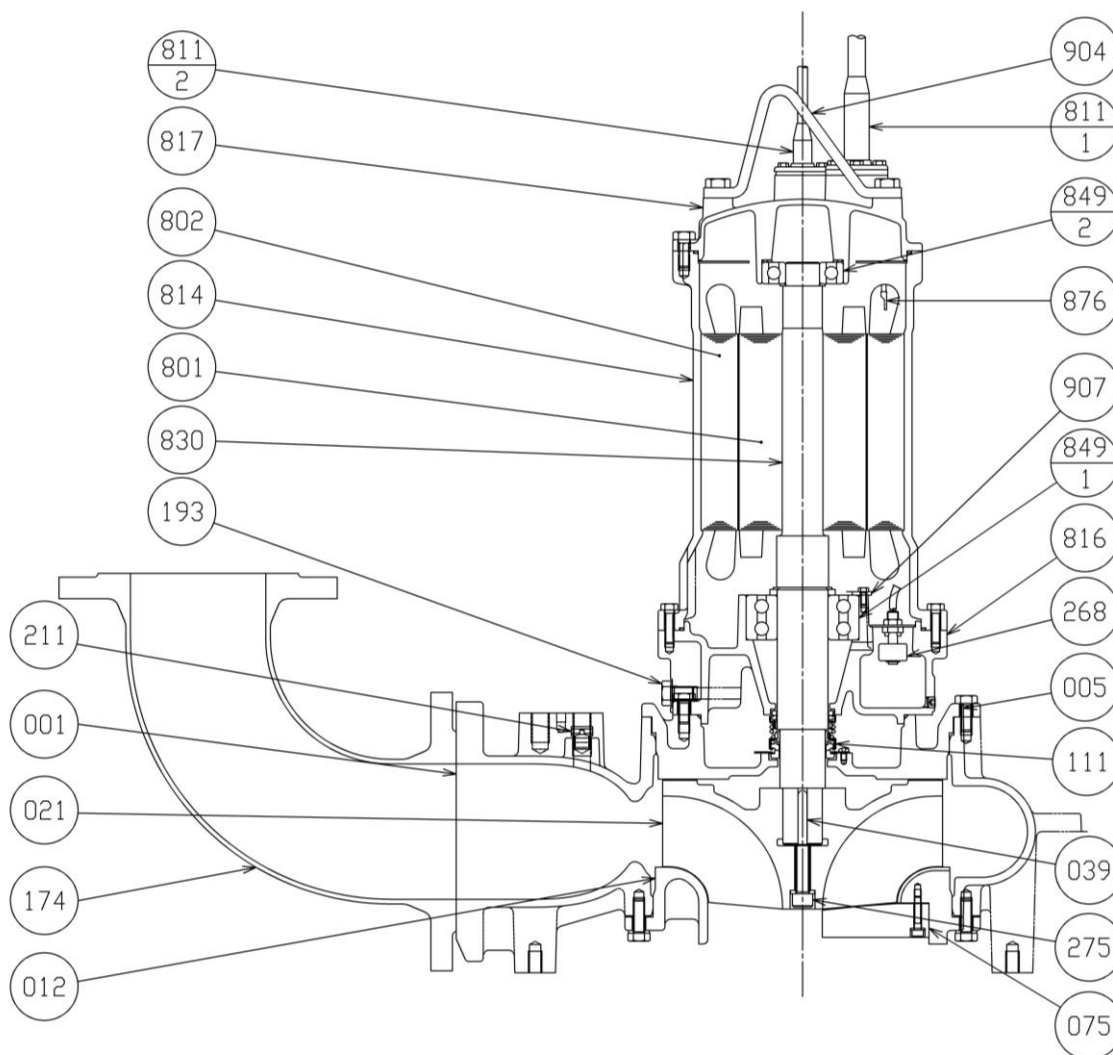
| Size DA | QDC model | Pump model | Quick discharge connector | | | | | | | | | | | | | | | | | Weight kg | | |
|---------|-----------|-------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|-----------|-----|------|
| | | | A | P1 | P2 | F | H1 | H2 | H3 | L1 | L2 | L6 | BN1 | BN2 | BM | BP | BY1 | BW | DM | I | QDC | Pump |
| 250 | LL300 | 250 DKE 530 | 990 | 195 | 465 | 970 | 430 | 550 | 620 | 237 | 1001 | 300 | 70 | 70 | 680 | 215 | 580 | 640 | 1200 | 900 | 200 | 385 |
| | | 250 DKE 537 | 990 | 195 | 465 | 970 | 430 | 550 | 620 | 237 | 1128 | 300 | 70 | 70 | 680 | 215 | 580 | 640 | 1200 | 900 | 200 | 441 |
| | | 250 DKE 545 | 990 | 195 | 465 | 970 | 430 | 550 | 620 | 237 | 1128 | 300 | 70 | 70 | 680 | 215 | 580 | 640 | 1200 | 900 | 200 | 462 |

• **Applicable Models – DKE IE3 with QDC LL300 (300DKE 30kW~45kW)**



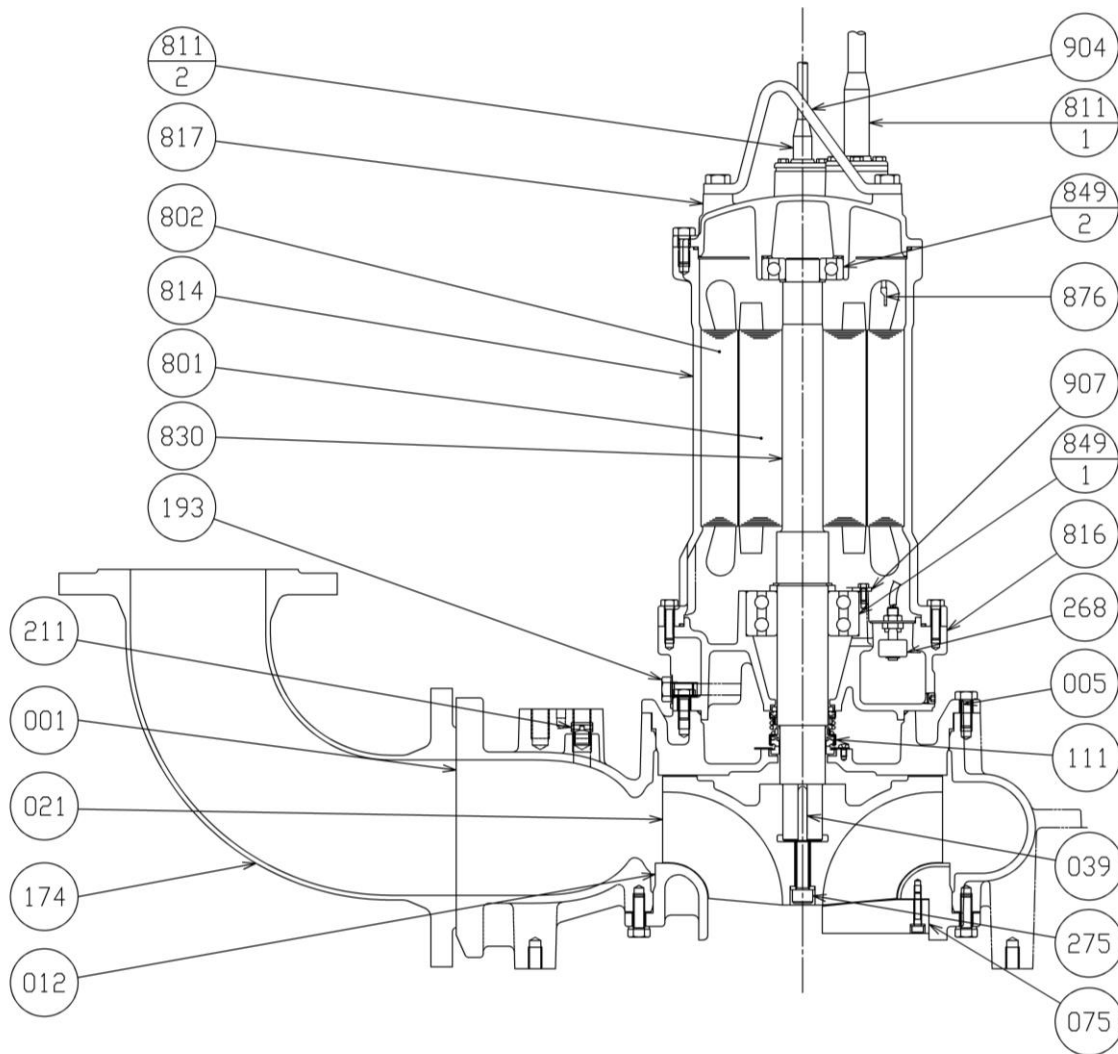
Unit : mm

| Size DA | QDC model | Pump model | Quick discharge connector | | | | | | | | | | | | | | | | | Weight kg | | |
|---------|-----------|-------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|------|-----------|-----|------|
| | | | A | P1 | P2 | F | H1 | H2 | H3 | L1 | L2 | L6 | BN1 | BN2 | BM | BP | BY1 | BW | DM | I | QDC | Pump |
| 300 | LL300 | 300 DKE 530 | 990 | 195 | 465 | 800 | 430 | 550 | 620 | 237 | 1001 | 300 | 70 | 70 | 680 | 215 | 580 | 640 | 1200 | 900 | 200 | 385 |
| | | 300 DKE 537 | 990 | 195 | 465 | 800 | 430 | 550 | 620 | 237 | 1128 | 300 | 70 | 70 | 680 | 215 | 580 | 640 | 1200 | 900 | 200 | 441 |
| | | 300 DKE 545 | 990 | 195 | 465 | 800 | 430 | 550 | 620 | 237 | 1128 | 300 | 70 | 70 | 680 | 215 | 580 | 640 | 1200 | 900 | 200 | 462 |



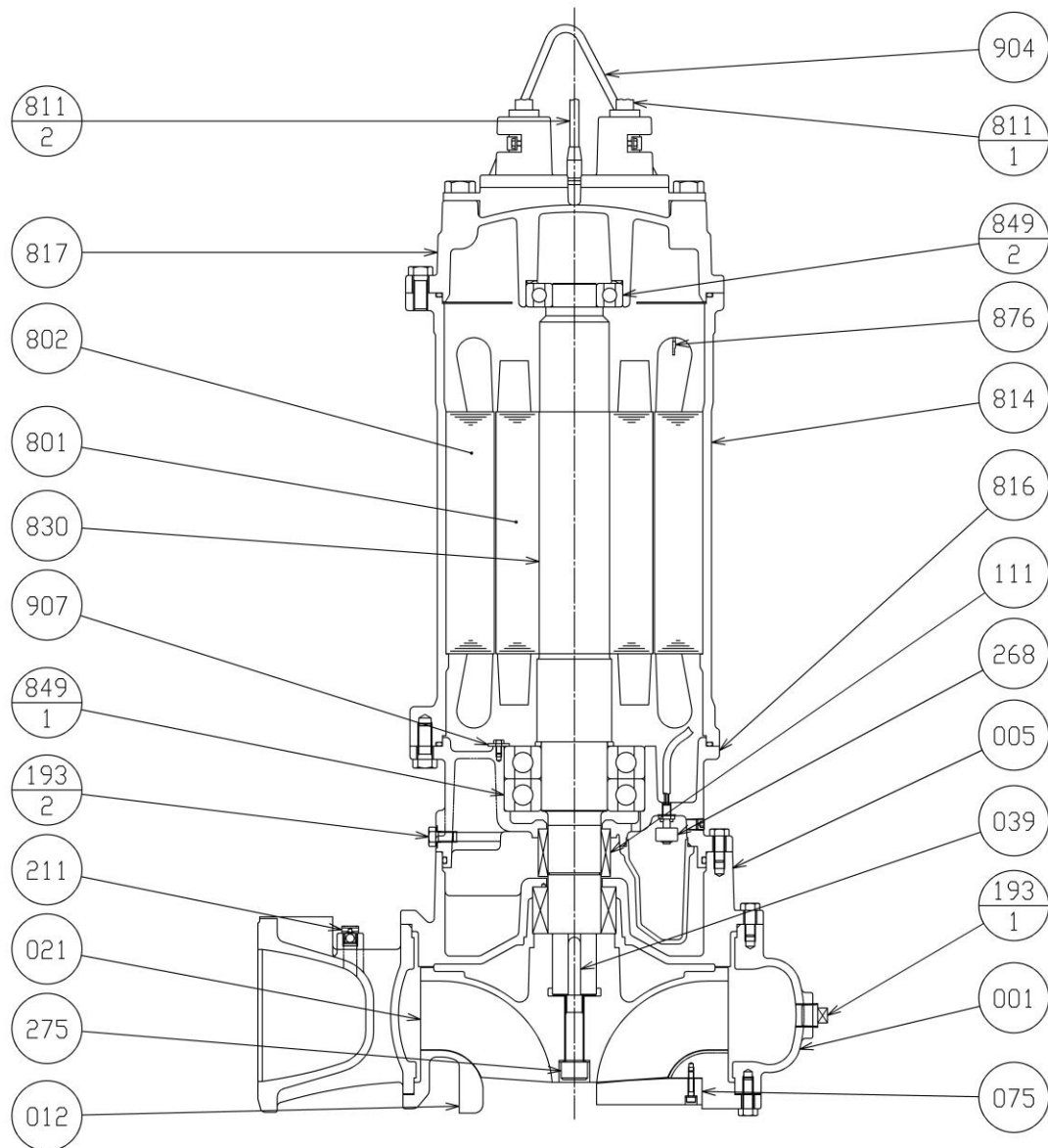
| Item Number | Part Name | Material | Qty per unit |
|-------------|---------------------|--|--------------|
| 001 | Pump Casing | FC250/FCD400 Cast iron/ Ductile Cast Iron | 1 |
| 005 | Intermediate Casing | FC250 Cast iron | 1 |
| 012 | Suction Cover | FC250 Cast iron | 1 |
| 021 | Impeller | FC250/FCD400/ FCD500 Cast iron/ Ductile Cast Iron | 1 |
| 039 | Key | SUS420 Stainless Steel | 1 |
| 075 | Guide Pin | FCD400 Ductile Cast Iron | 1 |
| 111 | Mechanical Seal | | 1 |
| 174 | Discharge Bend | SS Steel | 1 |
| 193 | Oil Plug | NBR / SUS304 | 1 set |
| 211 | Air Vent Valve | SUS304 Stainless Steel | 1 |
| 268 | Leakage Detector | | 1 |
| 275 | Impeller Bolt | SUS304 Stainless Steel | 1 |

| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------------------|---------------------------|--------------|
| 801 | Rotor | | 1 |
| 802 | Stator | | 1 |
| 811-1 | Submersible Cable (Power) | | 1 |
| 811-2 | Submersible Cable (Signal) | | 1 |
| 814 | Motor Frame | FC200 Cast iron | 1 |
| 816 | Power Side Braket | FC200 Cast iron | 1 |
| 817 | Opposite Side Braket | FC200 Cast iron | 1 |
| 830 | Shaft | SUS403 Stainless Steel | 1 |
| 849-1 | Ball Bearing | | 1 |
| 849-2 | Ball Bearing | | 1 |
| 876 | Thermal Protector | | 2 |
| 904 | Lifting Hanger | SS Steel | 1 |
| 907 | Bearing Cover | SUS304 Stainless Steel | 1 |



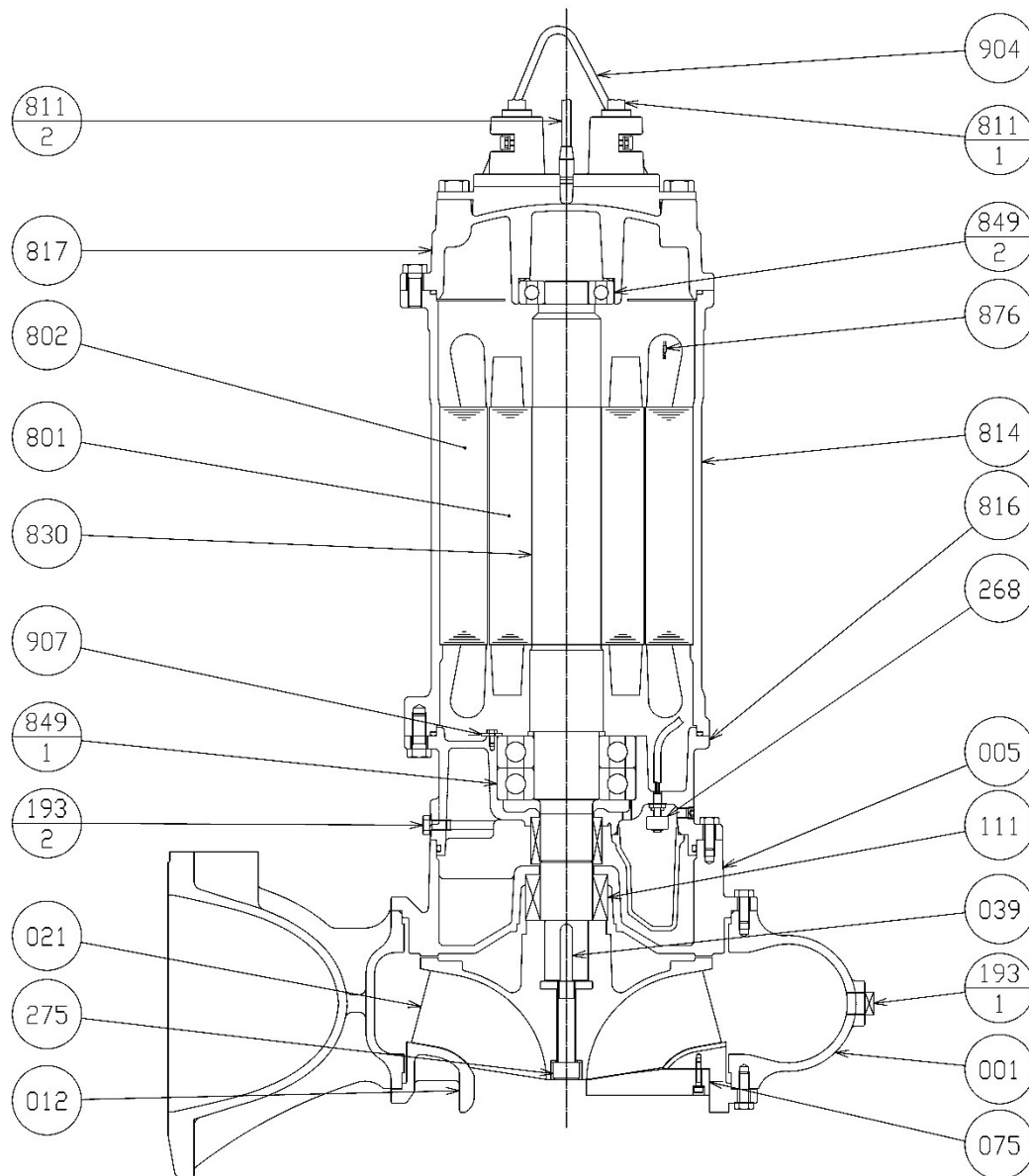
| Item Number | Part Name | Material | Qty per unit |
|-------------|---------------------|--|--------------|
| 001 | Pump Casing | FC250/FCD400 Cast iron/ Ductile Cast Iron | 1 |
| 005 | Intermediate Casing | FC250 Cast iron | 1 |
| 012 | Suction Cover | FC250 Cast iron | 1 |
| 021 | Impeller | FC250/FCD400/ FCD500 Cast iron/ Ductile Cast Iron | 1 |
| 039 | Key | SUS420 Stainless Steel | 1 |
| 075 | Guide Pin | FCD400 Ductile Cast Iron | 1 |
| 111 | Mechanical Seal | | 1 |
| 174 | Discharge Bend | SS Steel | 1 |
| 193 | Oil Plug | NBR / SUS304 | 1 set |
| 211 | Air Vent Valve | SUS304 Stainless Steel | 1 |
| 268 | Leakage Detector | | 1 |
| 275 | Impeller Bolt | SUS304 Stainless Steel | 1 |

| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------------------|---------------------------|--------------|
| 801 | Rotor | | 1 |
| 802 | Stator | | 1 |
| 811-1 | Submersible Cable (Power) | | 2 |
| 811-2 | Submersible Cable (Signal) | | 1 |
| 814 | Motor Frame | FC200 Cast iron | 1 |
| 816 | Power Side Braket | FC200 Cast iron | 1 |
| 817 | Opposite Side Braket | FC200 Cast iron | 1 |
| 830 | Shaft | SUS403 Stainless Steel | 1 |
| 849-1 | Ball Bearing | | 1 |
| 849-2 | Ball Bearing | | 1 |
| 876 | Thermal Protector | | 2 |
| 904 | Lifting Hanger | SS Steel | 1 |
| 907 | Bearing Cover | SUS304 Stainless Steel | 1 |



| Item Number | Part Name | Material | Qty per unit |
|-------------|---------------------|--------------------------|--------------|
| 001 | Pump Casing | FC250 Cast iron | 1 |
| 005 | Intermediate Casing | FC250 Cast iron | 1 |
| 012 | Suction Cover | FC250 Cast iron | 1 |
| 021 | Impeller | FCD400 Ductile Cast Iron | 1 |
| 039 | Key | SUS420 Stainless Steel | 1 |
| 075 | Guide Pin | FCD400 Ductile Cast Iron | 1 |
| 111 | Mechanical Seal | | 1 |
| 193-1 | Plug | SUS304 | 2 |
| 193-2 | Oil Plug | NBR / SUS304 | 2 set |
| 211 | Air Vent Valve | SUS304 Stainless Steel | 1 |
| 268 | Leakage Detector | | 1 |
| 275 | Impeller Bolt | SUS304 Stainless Steel | 1 |

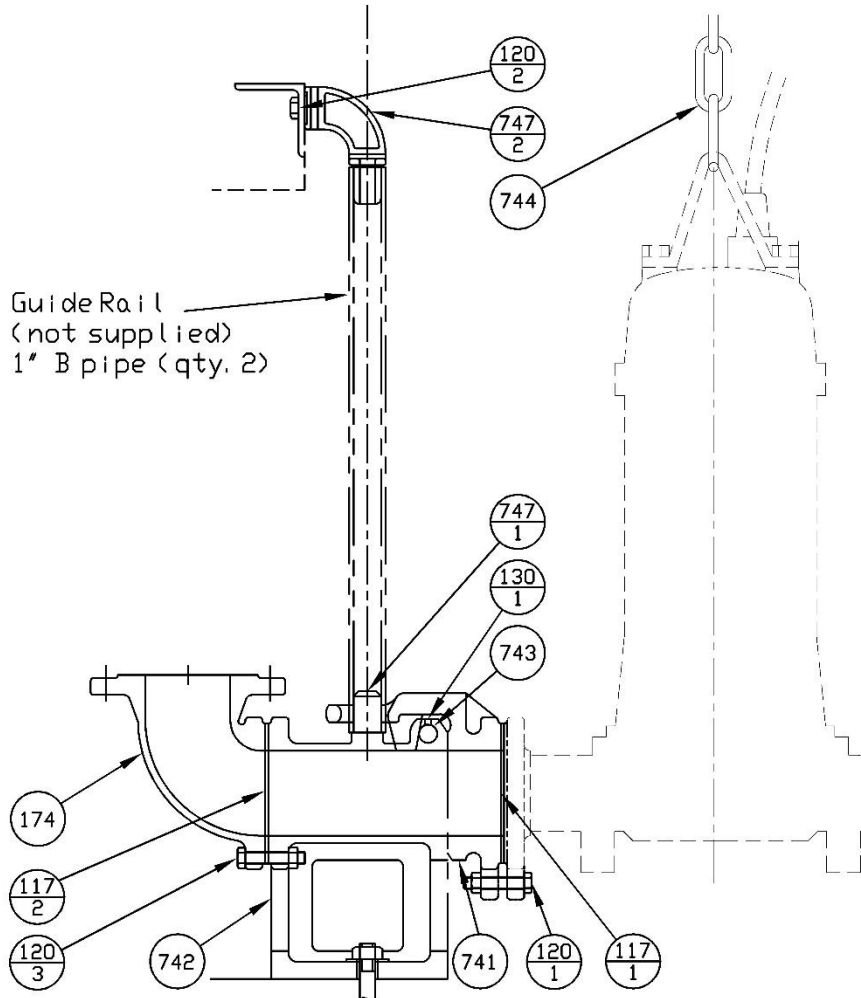
| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------------------|------------------------|--------------|
| 801 | Rotor | | 1 |
| 802 | Stator | | 1 |
| 811-1 | Submersible Cable (Power) | | 2 |
| 811-2 | Submersible Cable (Signal) | | 1 |
| 814 | Motor Frame | FC200 Cast iron | 1 |
| 816 | Power Side Braket | FC200 Cast iron | 1 |
| 817 | Opposite Side Braket | FC200 Cast iron | 1 |
| 830 | Shaft | SUS403 Stainless Steel | 1 |
| 849-1 | Ball Bearing | | 1 |
| 849-2 | Ball Bearing | | 1 |
| 876 | Thermal Protector | | 2 |
| 904 | Lifting Hanger | SS Steel | 1 |
| 907 | Bearing Cover | SPCC Steel | 1 |



| Item Number | Part Name | Material | Qty per unit |
|-------------|---------------------|--------------------------|--------------|
| 001 | Pump Casing | FC250 Cast iron | 1 |
| 005 | Intermediate Casing | FC250 Cast iron | 1 |
| 012 | Suction Cover | FC250 Cast iron | 1 |
| 021 | Impeller | FCD400 Ductile Cast Iron | 1 |
| 039 | Key | SUS420 Stainless Steel | 1 |
| 075 | Guide Pin | FCD400 Ductile Cast Iron | 1 |
| 111 | Mechanical Seal | | 1 |
| 193-1 | Plug | SUS304 | 2 |
| 193-2 | Oil Plug | NBR / SUS304 | 2 set |
| 268 | Leakage Detector | | 1 |
| 275 | Impeller Bolt | SUS304 Stainless Steel | 1 |
| 801 | Rotor | | 1 |

| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------------------|------------------------|--------------|
| 802 | Stator | | 1 |
| 811-1 | Submersible Cable (Power) | | 2 |
| 811-2 | Submersible Cable (Signal) | | 1 |
| 814 | Motor Frame | FC200 Cast iron | 1 |
| 816 | Power Side Braket | FC200 Cast iron | 1 |
| 817 | Opposite Side Braket | FC200 Cast iron | 1 |
| 830 | Shaft | SUS403 Stainless Steel | 1 |
| 849-1 | Ball Bearing | | 1 |
| 849-2 | Ball Bearing | | 1 |
| 876 | Thermal Protector | | 2 |
| 904 | Lifting Hanger | SS Steel | 1 |
| 907 | Bearing Cover | SPCC Steel | 1 |

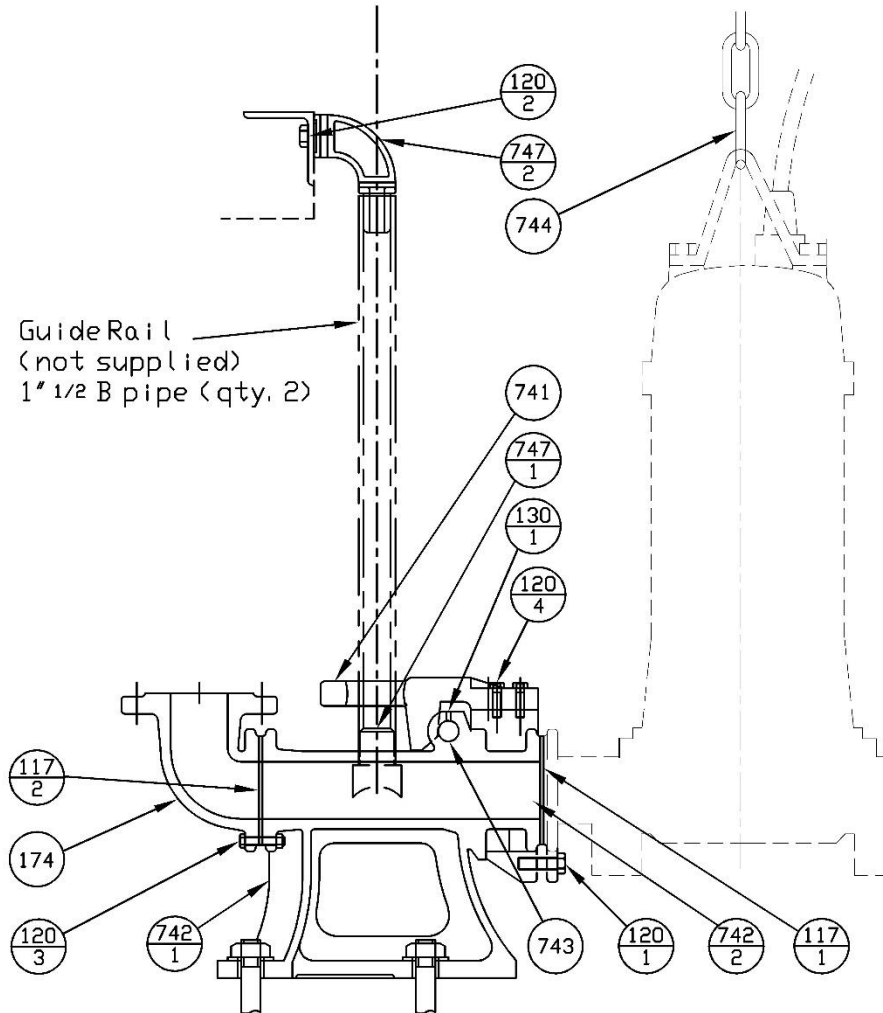
- Applicable Models – DKE with QDC LM65DI, LM80DI



| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------|------------------------|--------------|
| 117-1 | Gasket | #5611 | 1 |
| 117-2 | Gasket | #5611 | 1 |
| 120-1 | Nut & Bolt | SUS304 Stainless Steel | 4 |
| 120-2 | Nut & Bolt | SUS304 Stainless Steel | 2 |
| 120-3 | Nut & Bolt | SUS304 Stainless Steel | 4 |
| 130-1 | Set Screw | SUS304 Stainless Steel | 1 |
| 174 | Discharge Bend | FC200 Cast iron | 1 |

| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------|--------------------------|--------------|
| 741 | Sliding Guide | FC200 Cast iron | 1 |
| 742 | QDC Body | FC200 Cast iron | 1 |
| 743 | Suspension Bar | SUS420J1 Stainless Steel | 1 |
| 744 | Chain | SS Steel | 1 |
| 747-1 | Guide Pin | SUS304 Stainless Steel | 2 |
| 747-2 | Guide Support | SUS304 Stainless Steel | 1 |

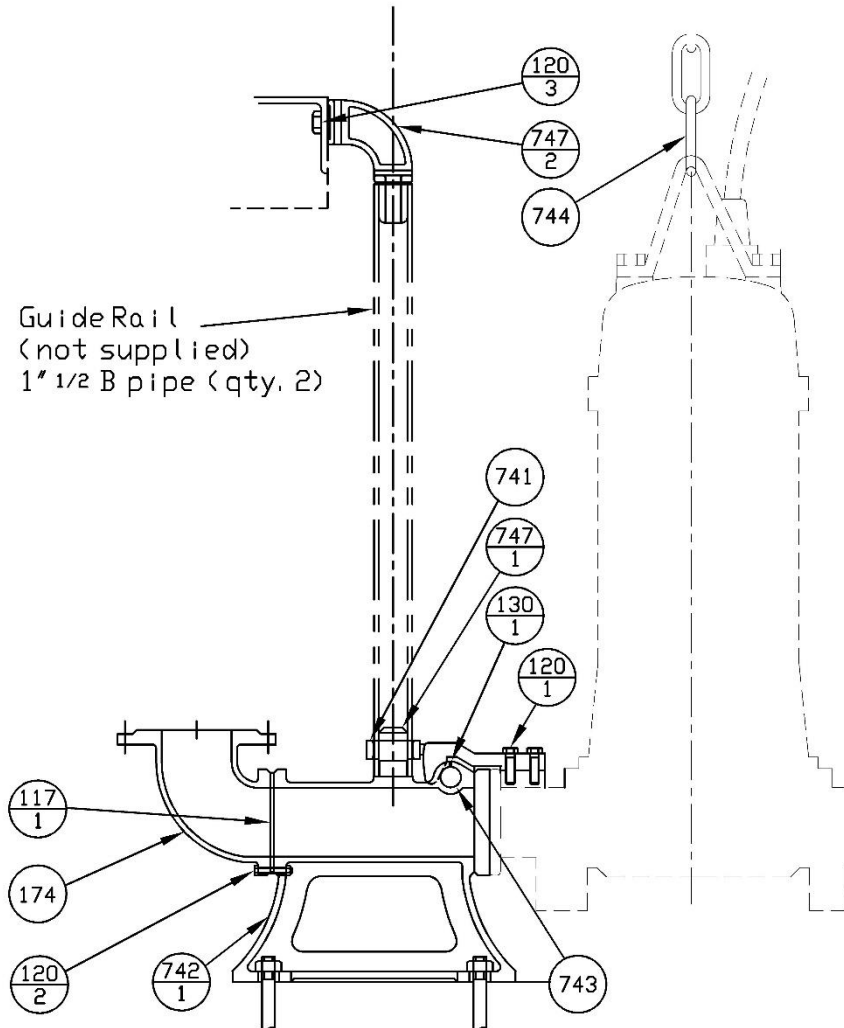
- Applicable Models – DKE with QDC LL80DI



| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------|------------------------|--------------|
| 117-1 | Gasket | #5611 | 1 |
| 117-2 | Gasket | #5611 | 1 |
| 120-1 | Bolt | SUS304 Stainless Steel | 8 |
| 120-2 | Nut & Bolt | SUS304 Stainless Steel | 2 |
| 120-3 | Nut & Bolt | SUS304 Stainless Steel | 4 |
| 120-4 | Bolt | SUS304 Stainless Steel | 4 |
| 130-1 | Set Screw | SUS304 Stainless Steel | 1 |
| 174 | Discharge Bend | FC200 Cast iron | 1 |

| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------|--------------------------|--------------|
| 741 | Sliding Guide | FCD400 Ductile Cast Iron | 1 |
| 742-1 | QDC Body | FC200 Cast iron | 1 |
| 742-2 | QDC Flange | FC250 Cast iron | 1 |
| 743 | Suspension Bar | SUS420J1 Stainless Steel | 1 |
| 744 | Chain | SS Steel | 1 |
| 747-1 | Guide Pin | SUS304 Stainless Steel | 2 |
| 747-2 | Guide Support | SUS304 Stainless Steel | 1 |

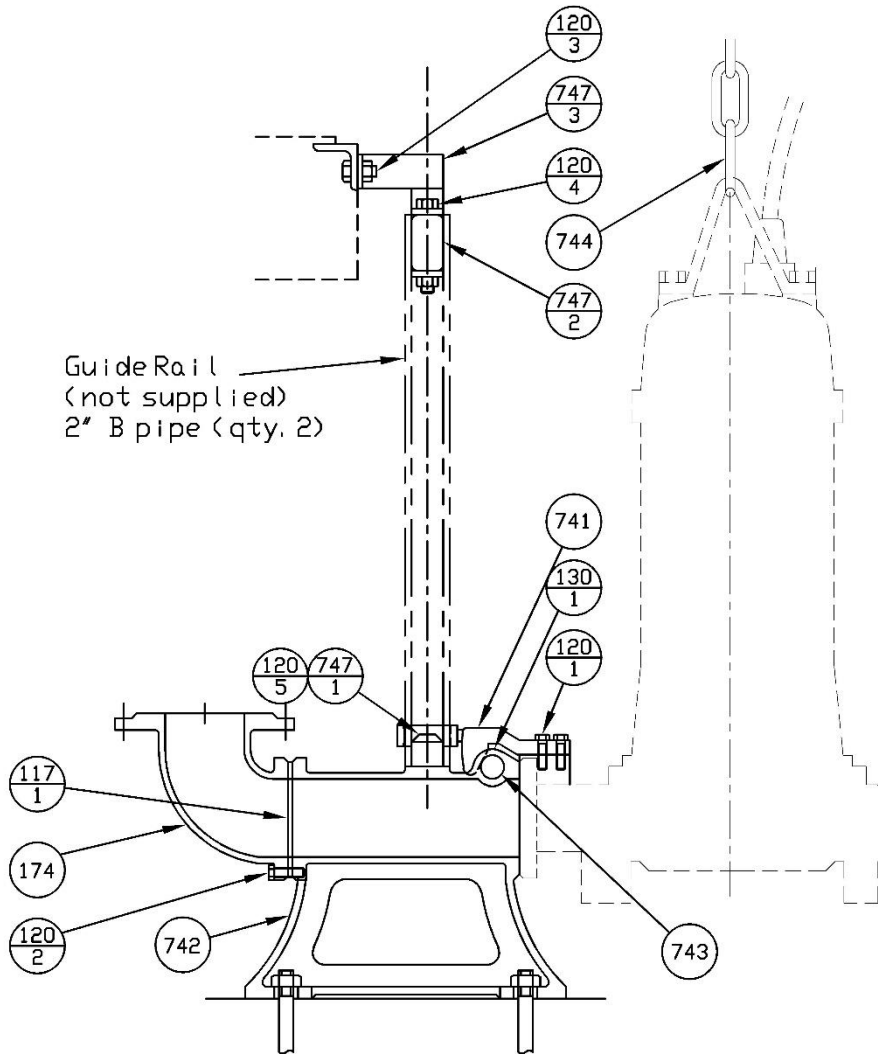
- Applicable Models – DKE with QDC LL100F



| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------|------------------------|--------------|
| 117-1 | Gasket | #5611 | 1 |
| 120-1 | Bolt | SUS304 Stainless Steel | 4 |
| 120-2 | Nut & Bolt | SUS304 Stainless Steel | 4 |
| 120-3 | Nut & Bolt | SUS304 Stainless Steel | 2 |
| 130-1 | Set Screw | SUS304 Stainless Steel | 1 |
| 130-1 | Set Screw | SUS304 Stainless Steel | 1 |
| 174 | Discharge Bend | FC200 Cast iron | 1 |

| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------|--------------------------|--------------|
| 741 | Sliding Guide | FCD400 Ductile Cast Iron | 1 |
| 742 | QDC Body | FC200 Cast iron | 1 |
| 743 | Suspension Bar | SUS420J1 Stainless Steel | 1 |
| 744 | Chain | SS Steel | 1 |
| 747-1 | Guide Pin | SUS304 Stainless Steel | 2 |
| 747-2 | Guide Support | SUS304 Stainless Steel | 1 |

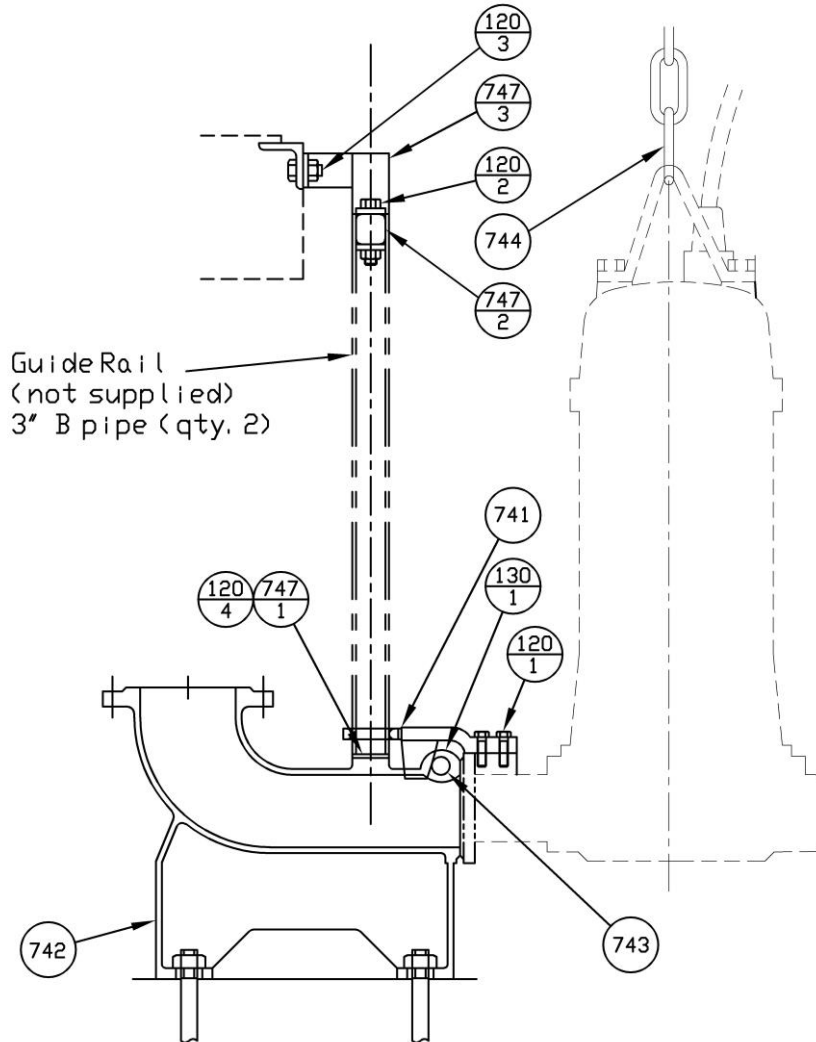
- Applicable Models – DKE with QDC LL150, LL150F, LL150YF



| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------|------------------------|--------------|
| 117-1 | Gasket | #5611 | 1 |
| 120-1 | Bolt | SUS304 Stainless Steel | 4 |
| 120-2 | Bolt | SUS304 Stainless Steel | 4 |
| 120-3 | Nut & Bolt | SUS304 Stainless Steel | 2 |
| 120-4 | Nut & Bolt | SUS304 Stainless Steel | 2 |
| 120-5 | Bolt | SUS304 Stainless Steel | 2 |
| 130-1 | Set Screw | SUS304 Stainless Steel | 1 |
| 174 | Discharge Bend | FC200 Cast iron | 1 |

| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------|--------------------------|--------------|
| 741 | Sliding Guide | FCD400 Ductile Cast Iron | 1 |
| 742 | QDC Body | FC200 Cast iron | 1 |
| 743 | Suspension Bar | SUS420J1 Stainless Steel | 1 |
| 744 | Chain | SS Steel | 1 |
| 747-1 | Guide Pin | SUS304 Stainless Steel | 2 |
| 747-2 | Rubber Ring | NR Rubber | 2 |
| 747-3 | Guide Support | SUS304 Stainless Steel | 1 |

- Applicable Models – DKE with QDC LL250F, LL250YF, LL300, LL300F



| Item Number | Part Name | Material | Qty per unit |
|-------------|---------------|--------------------------|--------------|
| 120-1 | Bolt | SUS304 Stainless Steel | 4 |
| 120-2 | Nut & Bolt | SUS304 Stainless Steel | 2 |
| 120-3 | Nut & Bolt | SUS304 Stainless Steel | 2 |
| 120-4 | Nut & Bolt | SUS304 Stainless Steel | 2 |
| 130-1 | Set Screw | SUS304 Stainless Steel | 1 |
| 741 | Sliding Guide | FCD400 Ductile Cast Iron | 1 |

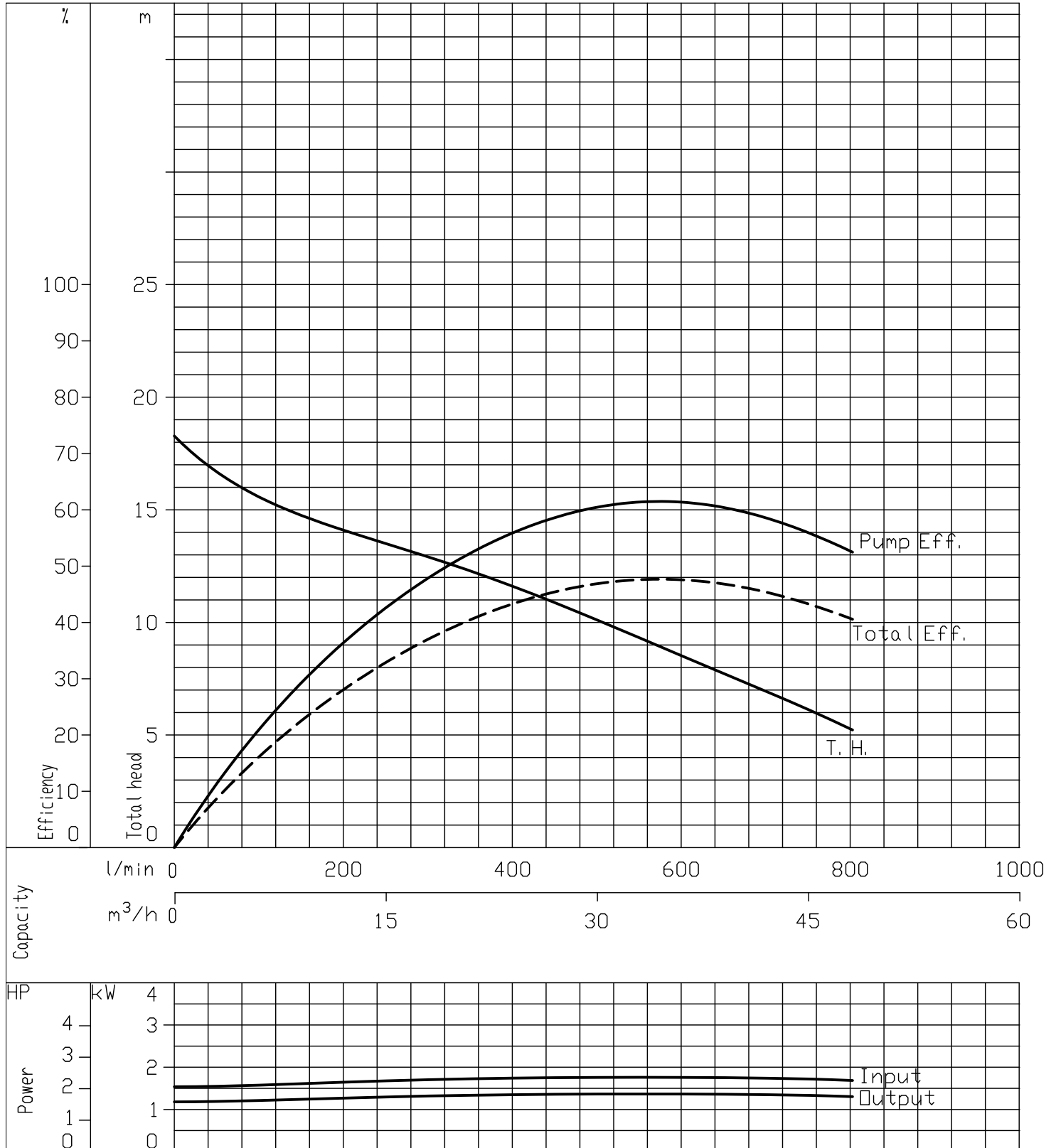
| Item Number | Part Name | Material | Qty per unit |
|-------------|----------------|--------------------------|--------------|
| 742 | QDC Body | FC200 Cast iron | 1 |
| 743 | Suspension Bar | SUS420J1 Stainless Steel | 1 |
| 744 | Chain | SS Steel | 1 |
| 747-1 | Pipe Support | SUS304 Stainless Steel | 1 |
| 747-2 | Rubber Ring | NR Rubber | 2 |
| 747-3 | Guide Support | SS Steel | 1 |

Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 65DKE51.5 IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

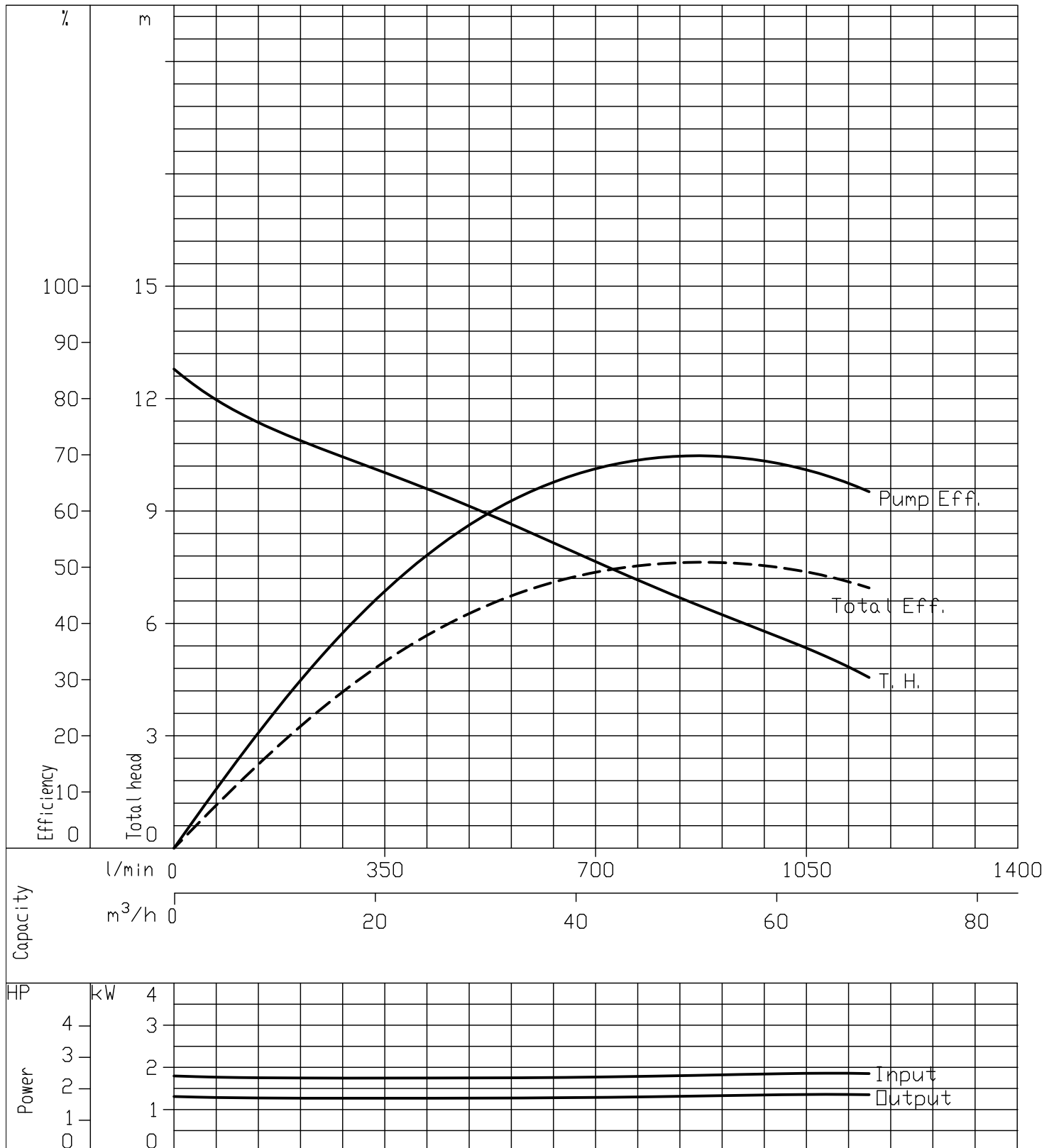


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 80DKE51.5 IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

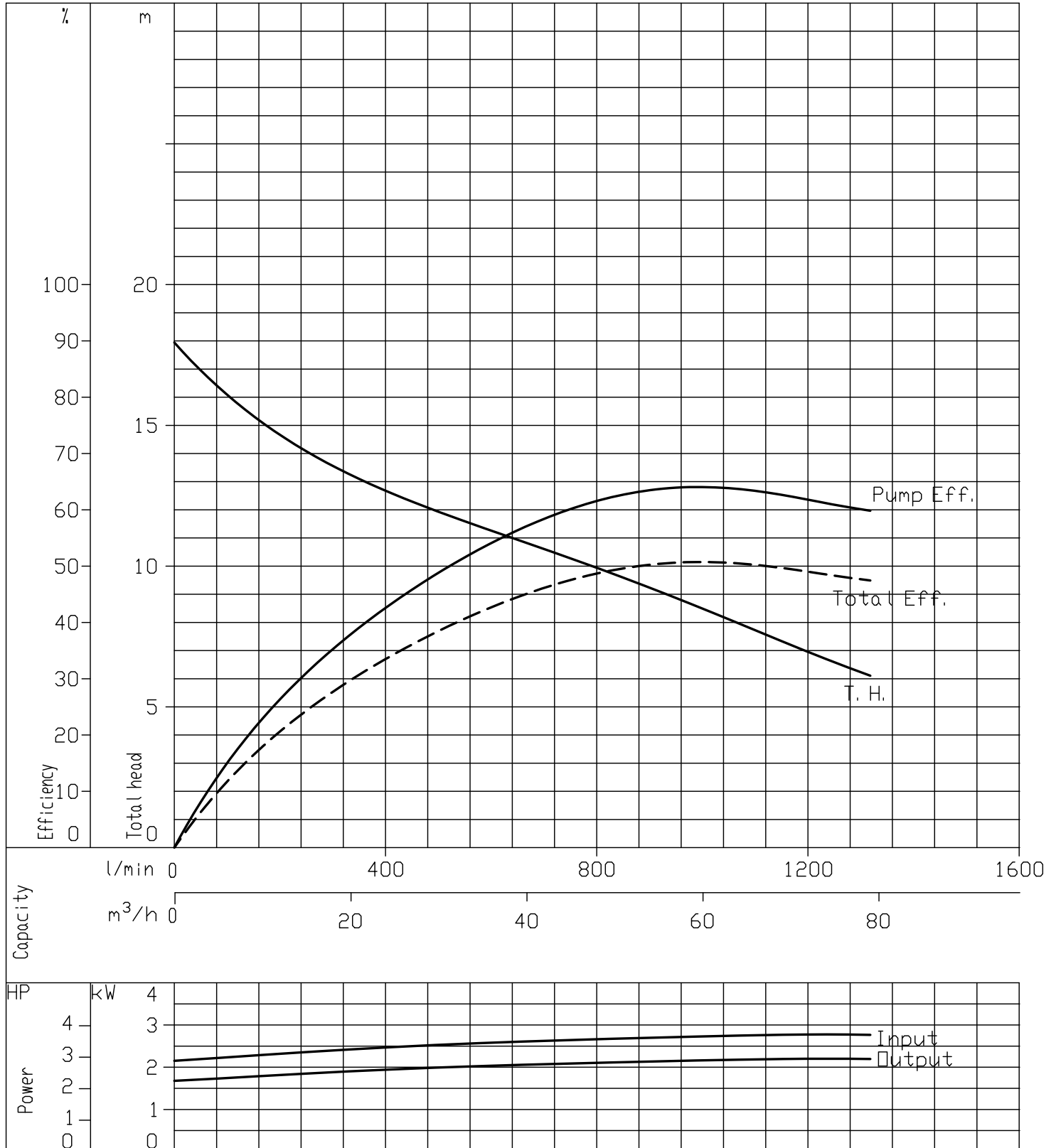


Performance Curve

4 Poles

50Hz

| | | |
|--------------------------|--------------------------|---|
| 80DKE52. 2 IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed | 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

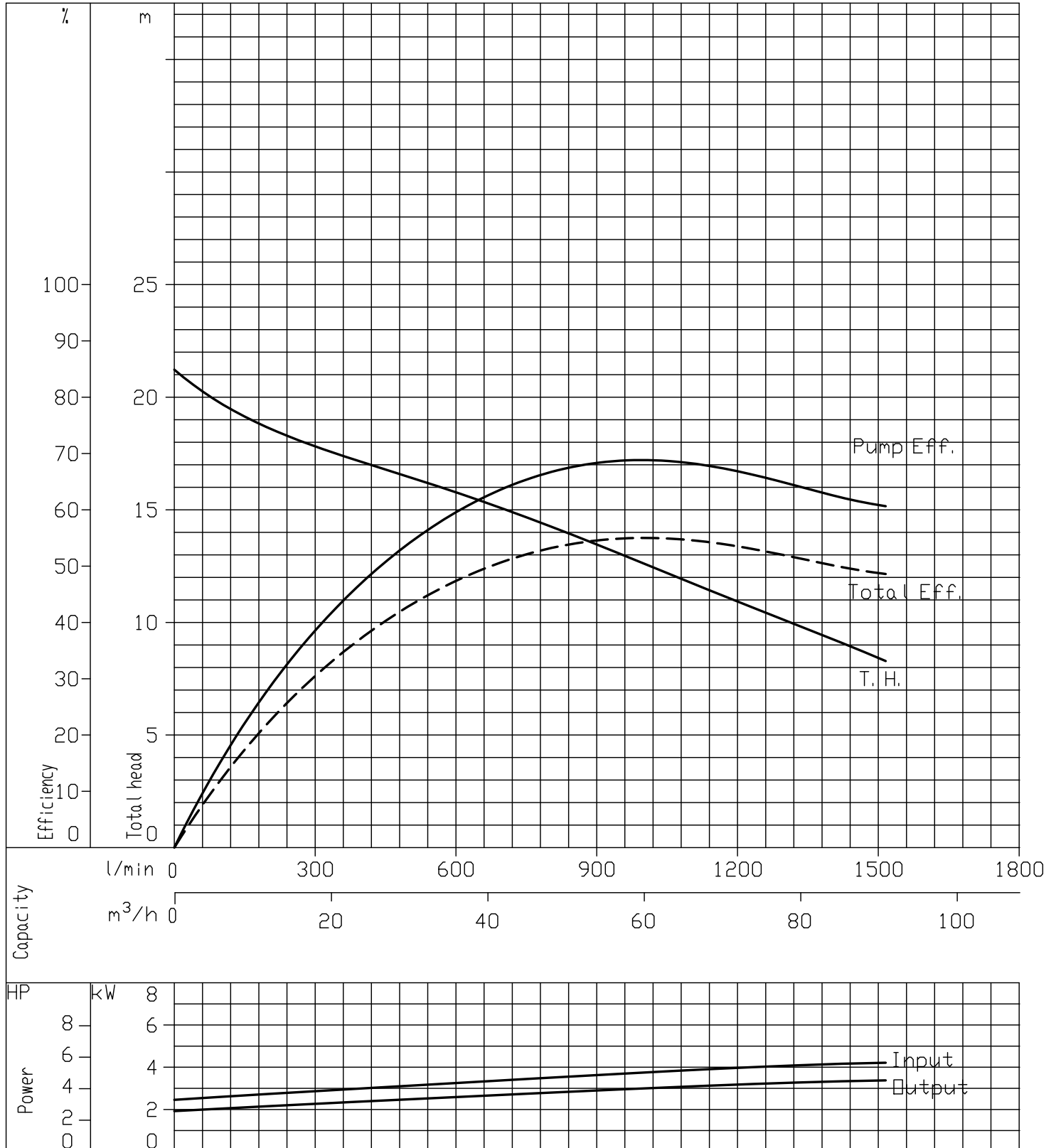


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 80DKE53.7 IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

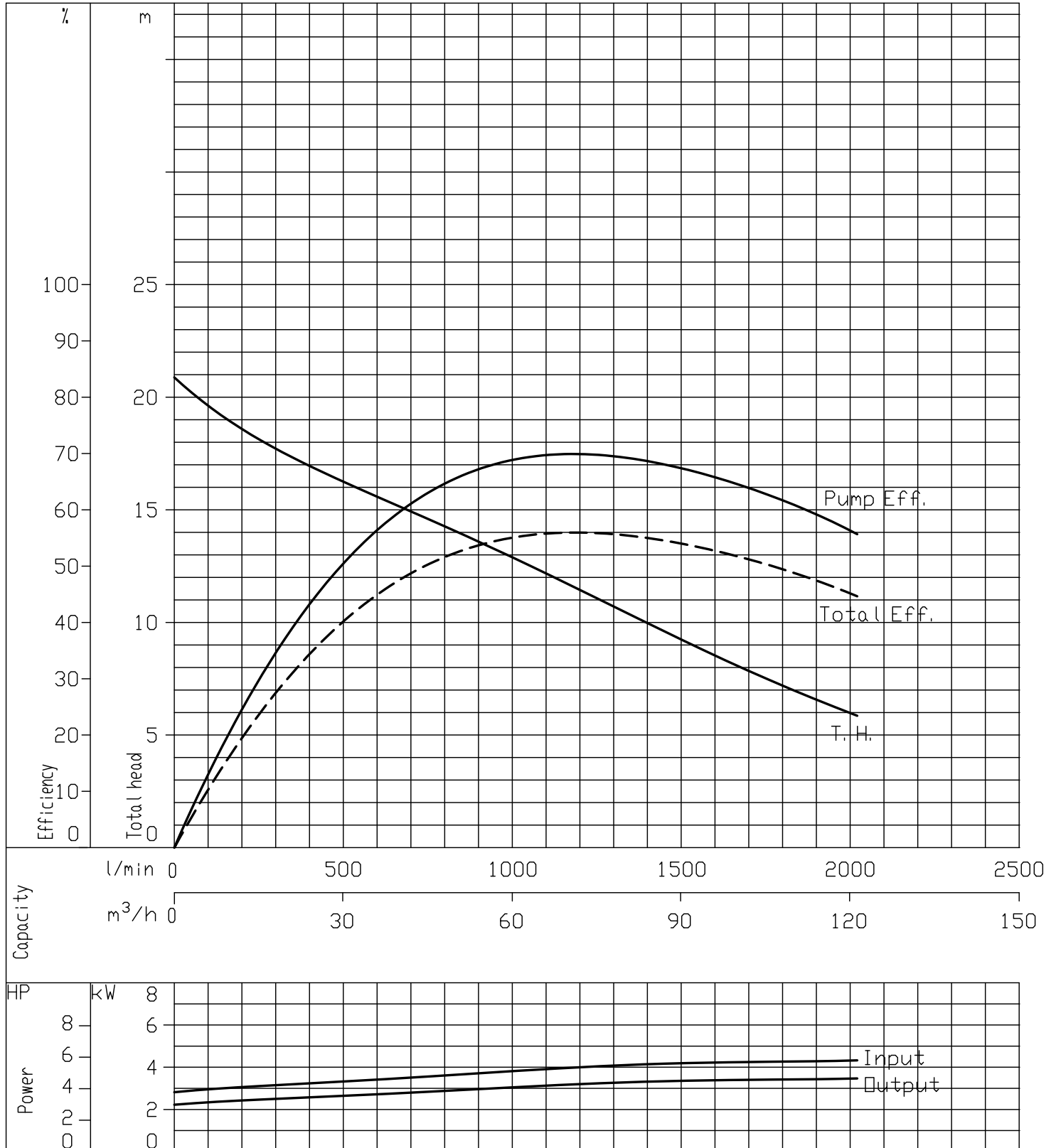


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 100DKE53.7 IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

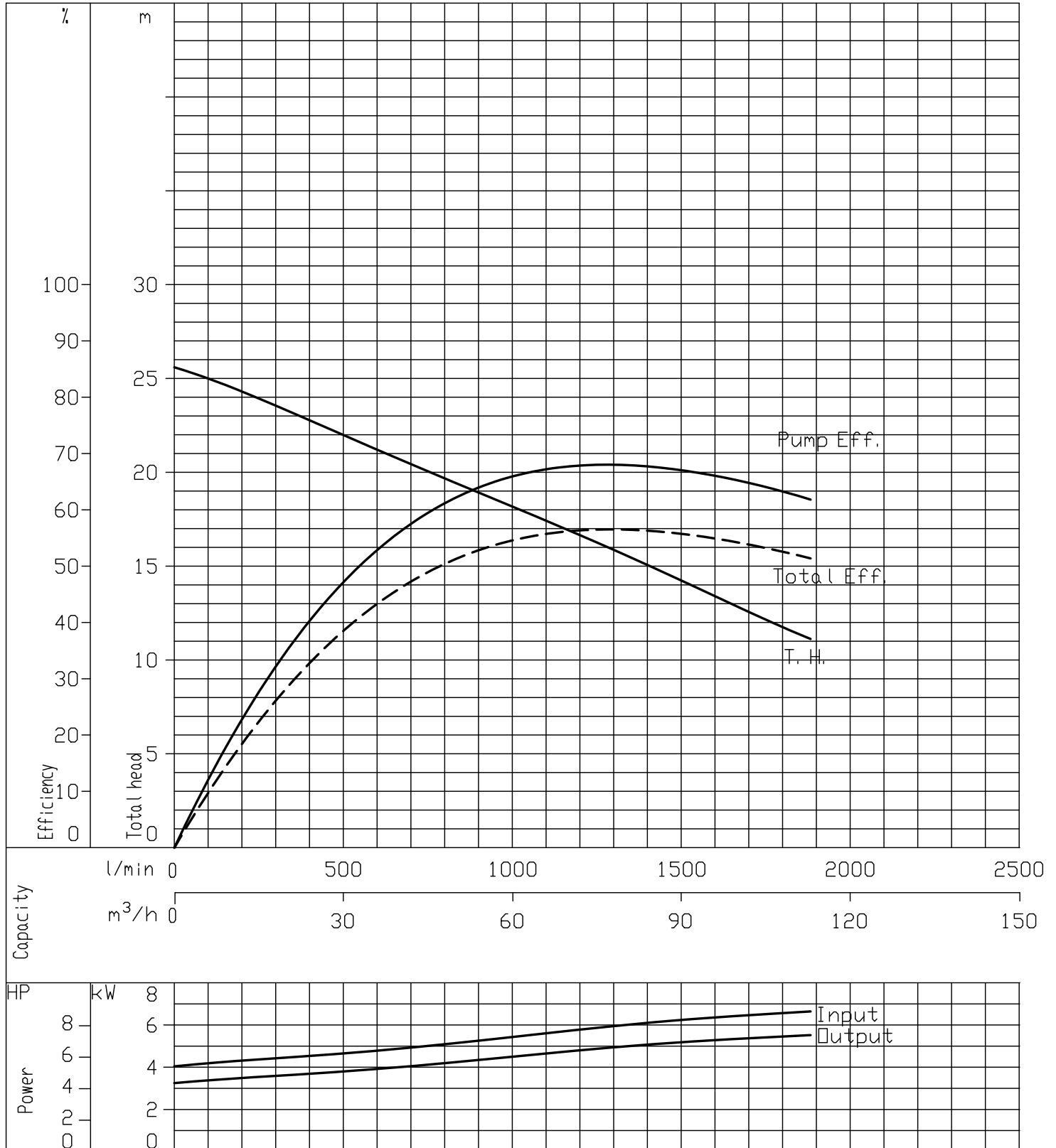


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 80DKE55.5 IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

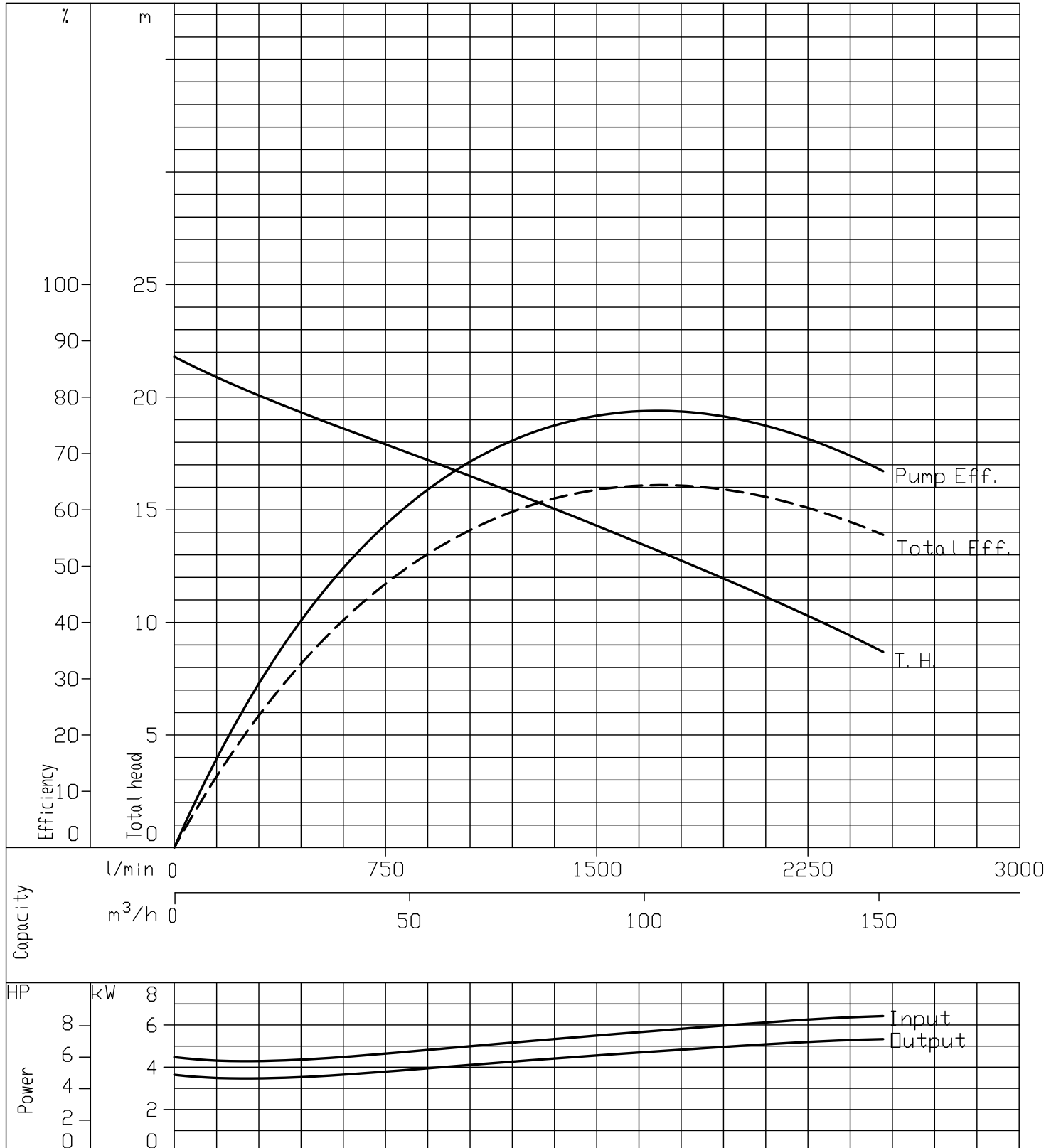


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 100DKEB55.5_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

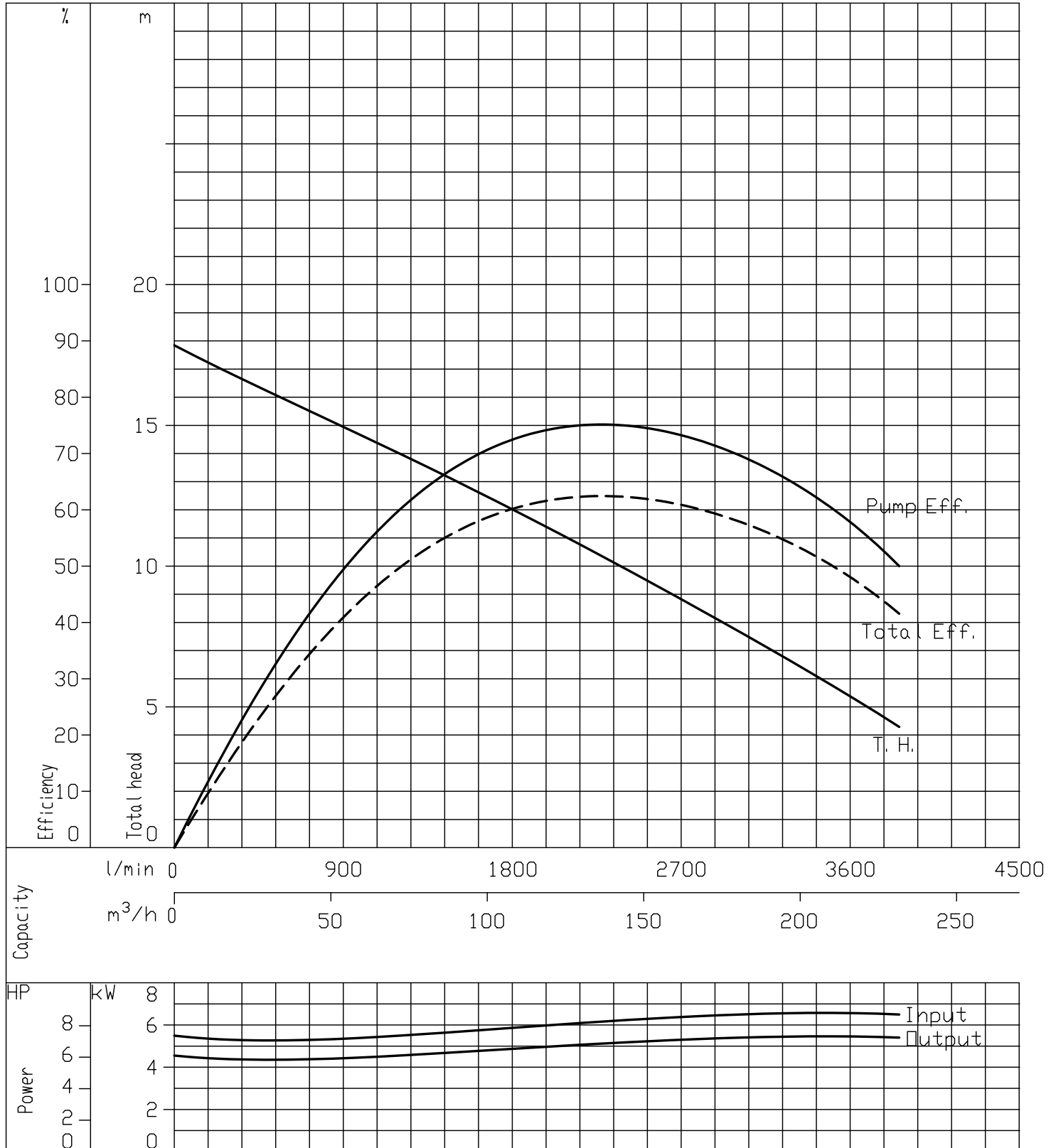


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 100DKE55.5 IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

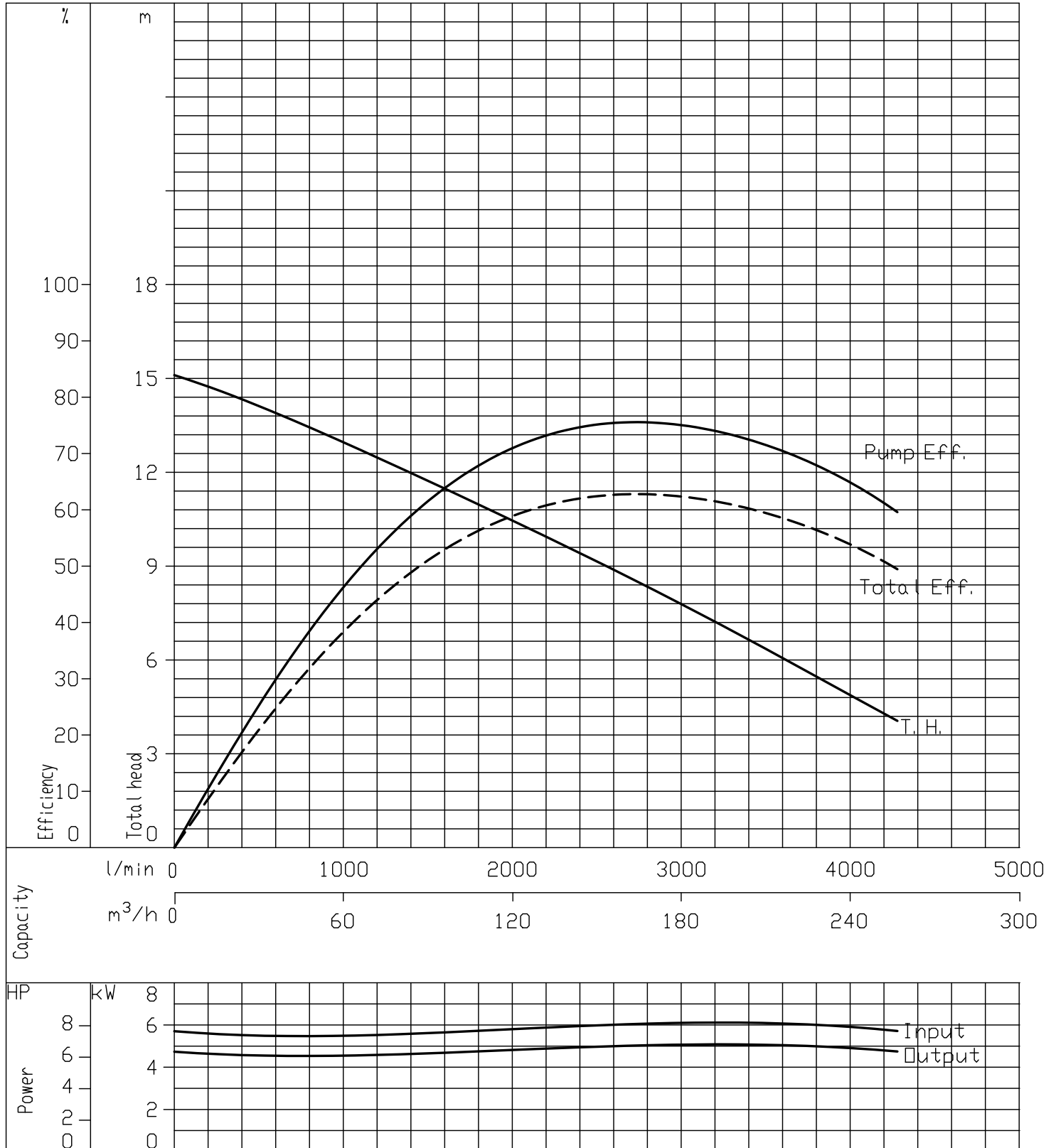


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 150DKE55.5 IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

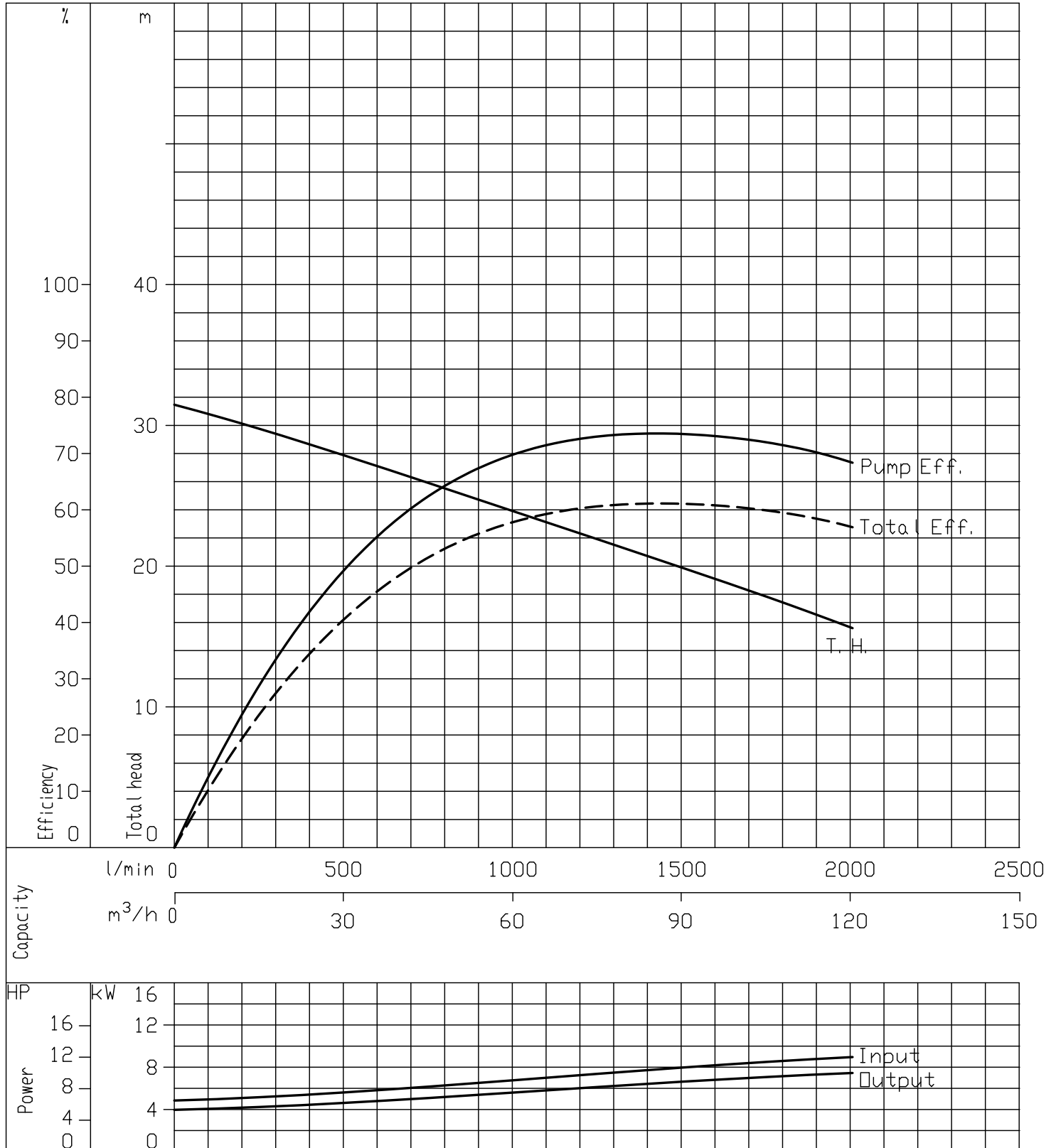


Performance Curve

4 Poles

50Hz

| | | |
|--------------------------|--------------------------|---|
| 80DKE57.5 IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed | 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

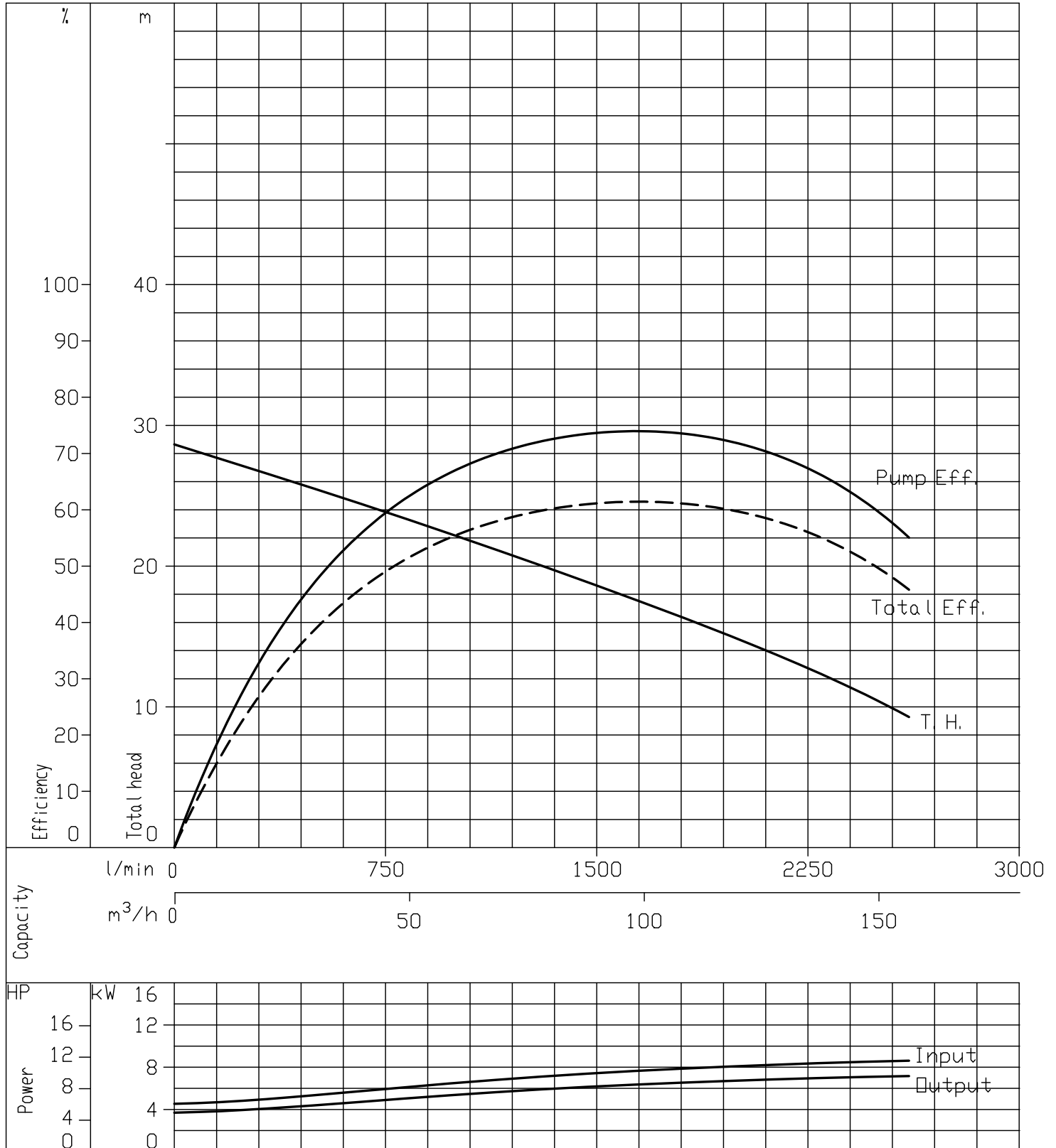


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 100DKEB57.5_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

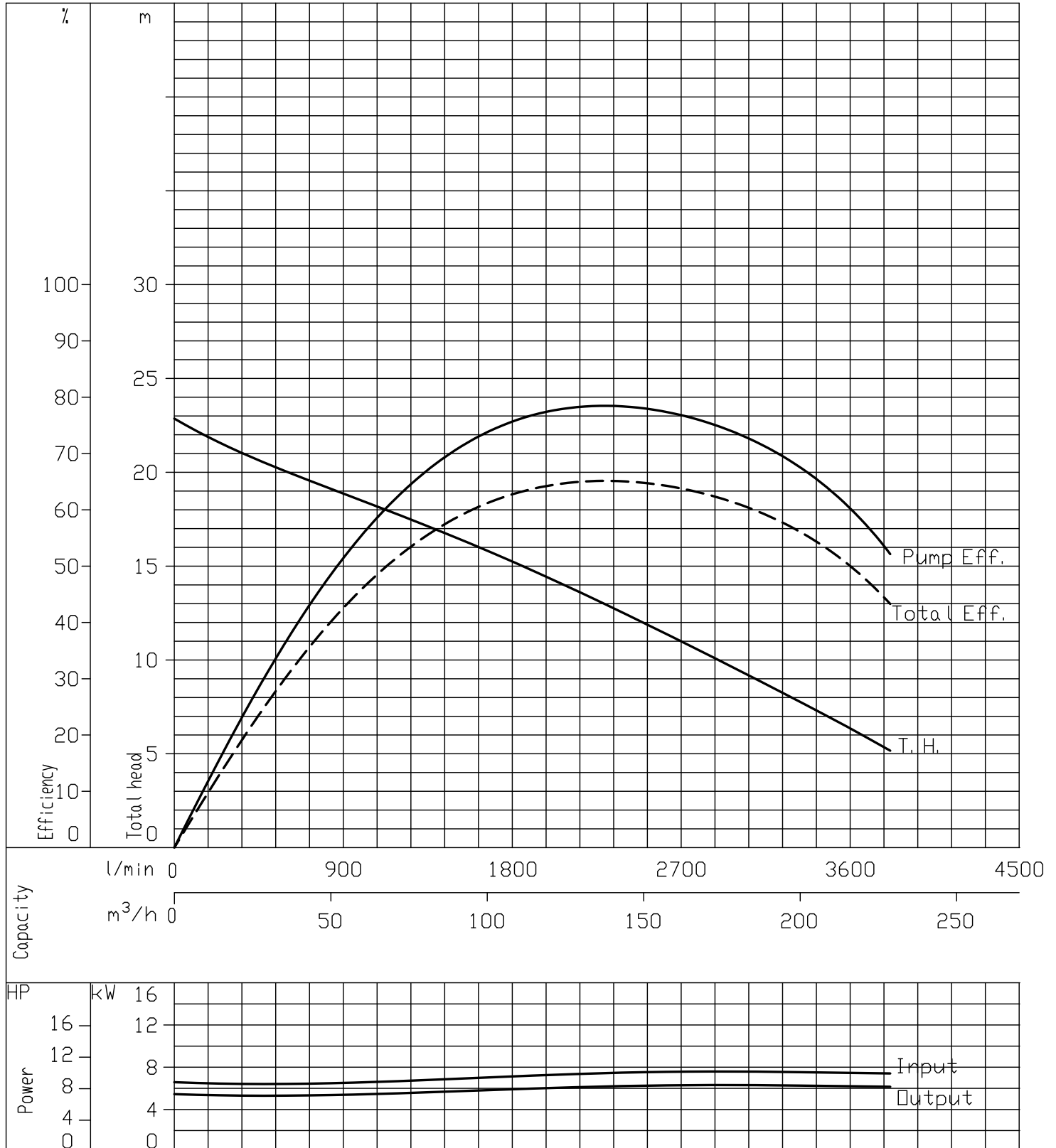


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 100DKE57.5 IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

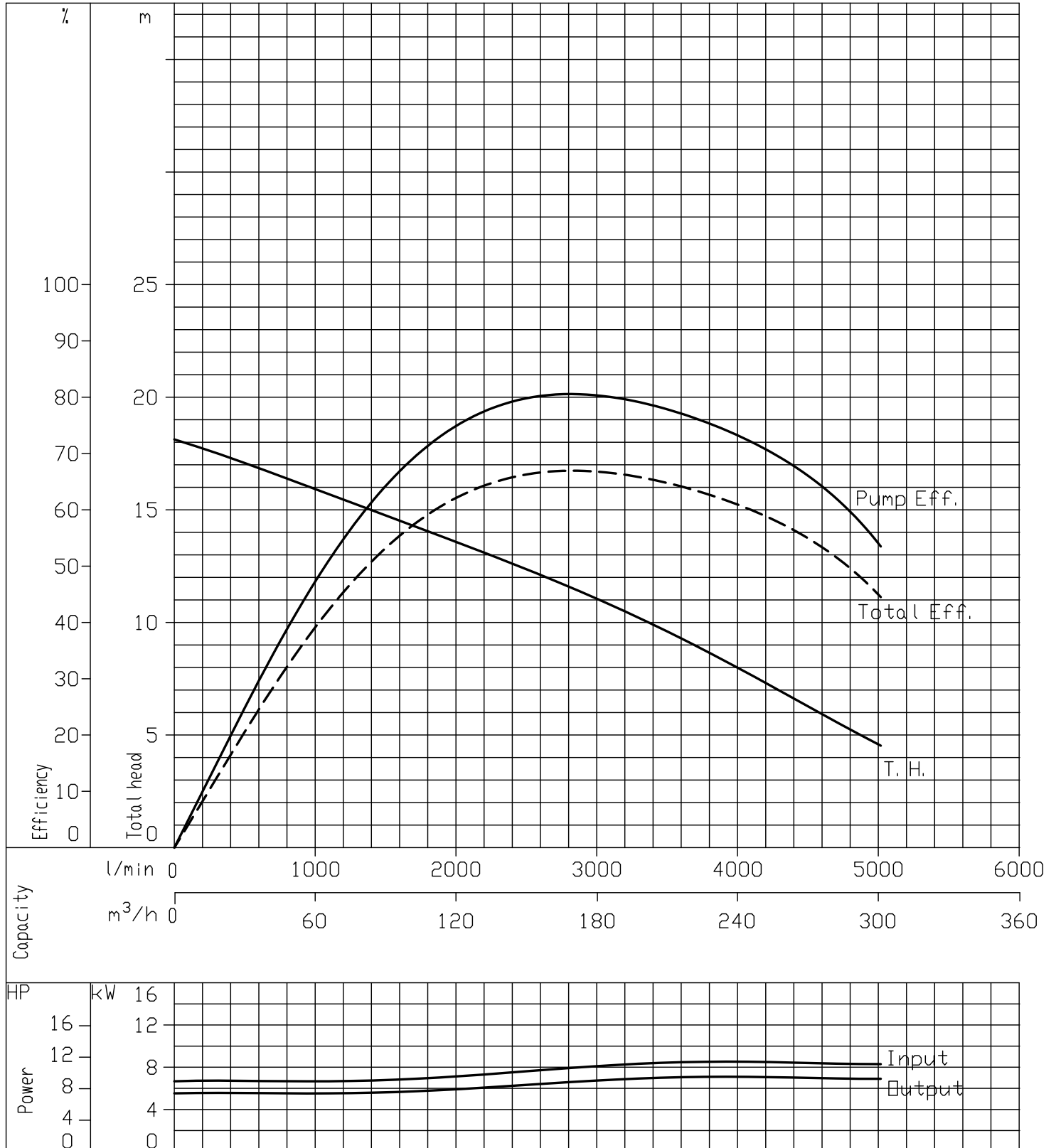


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 150DKE57.5 IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

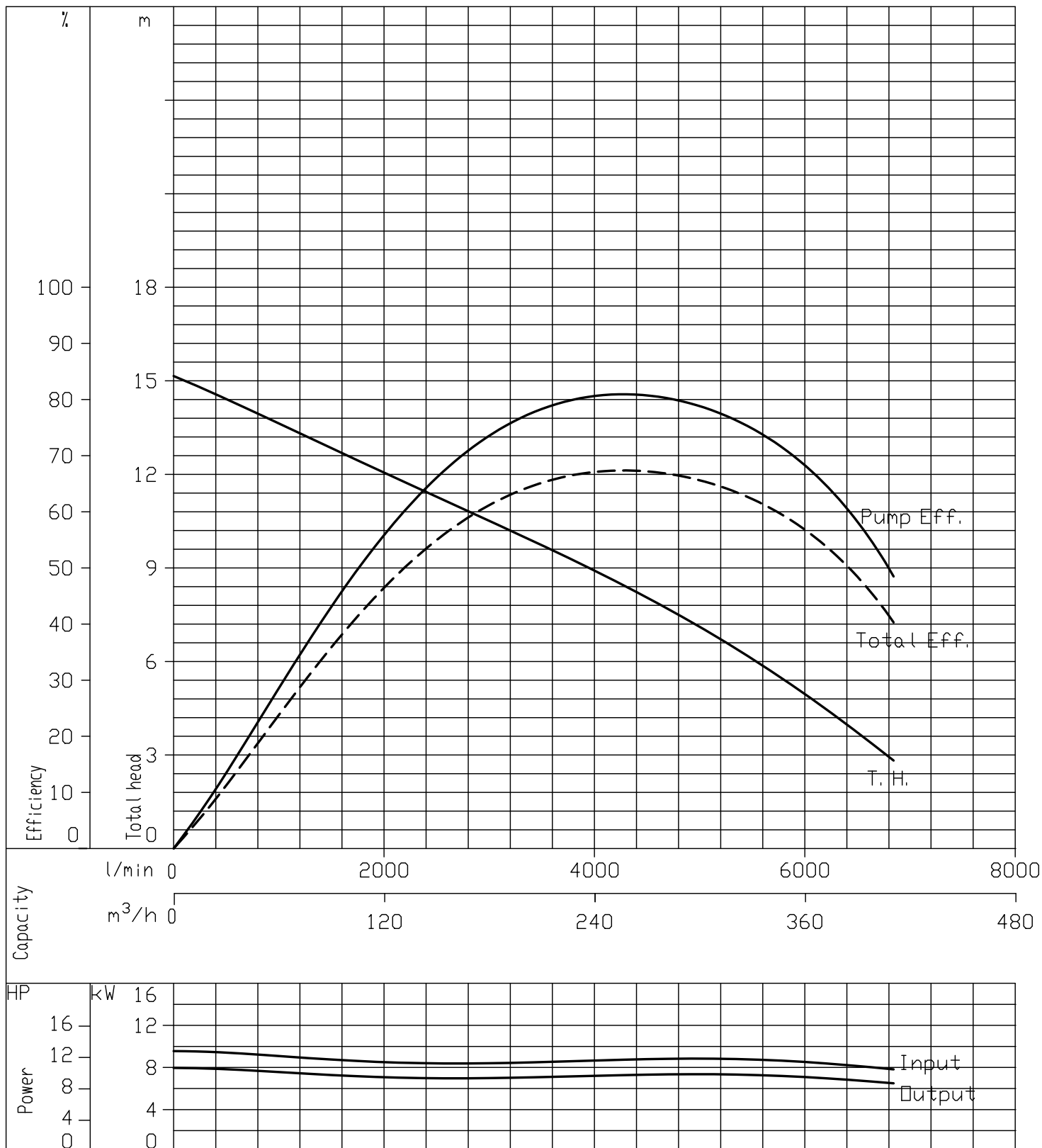


Performance Curve

4 Poles

50Hz

| | | |
|--------------------------|--------------------------|---|
| 200DKE57.5 IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed | 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

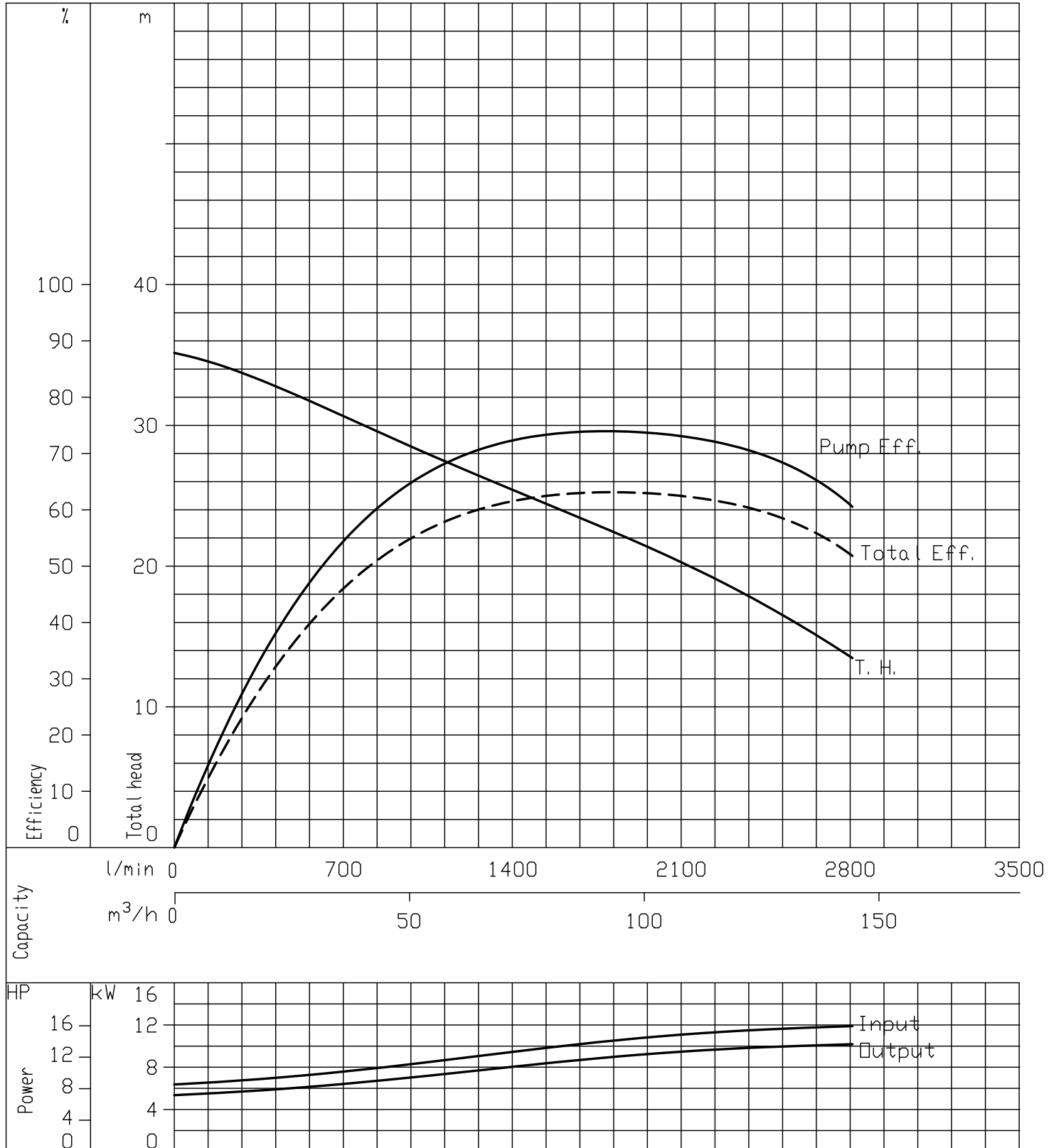


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 100DKEB511_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

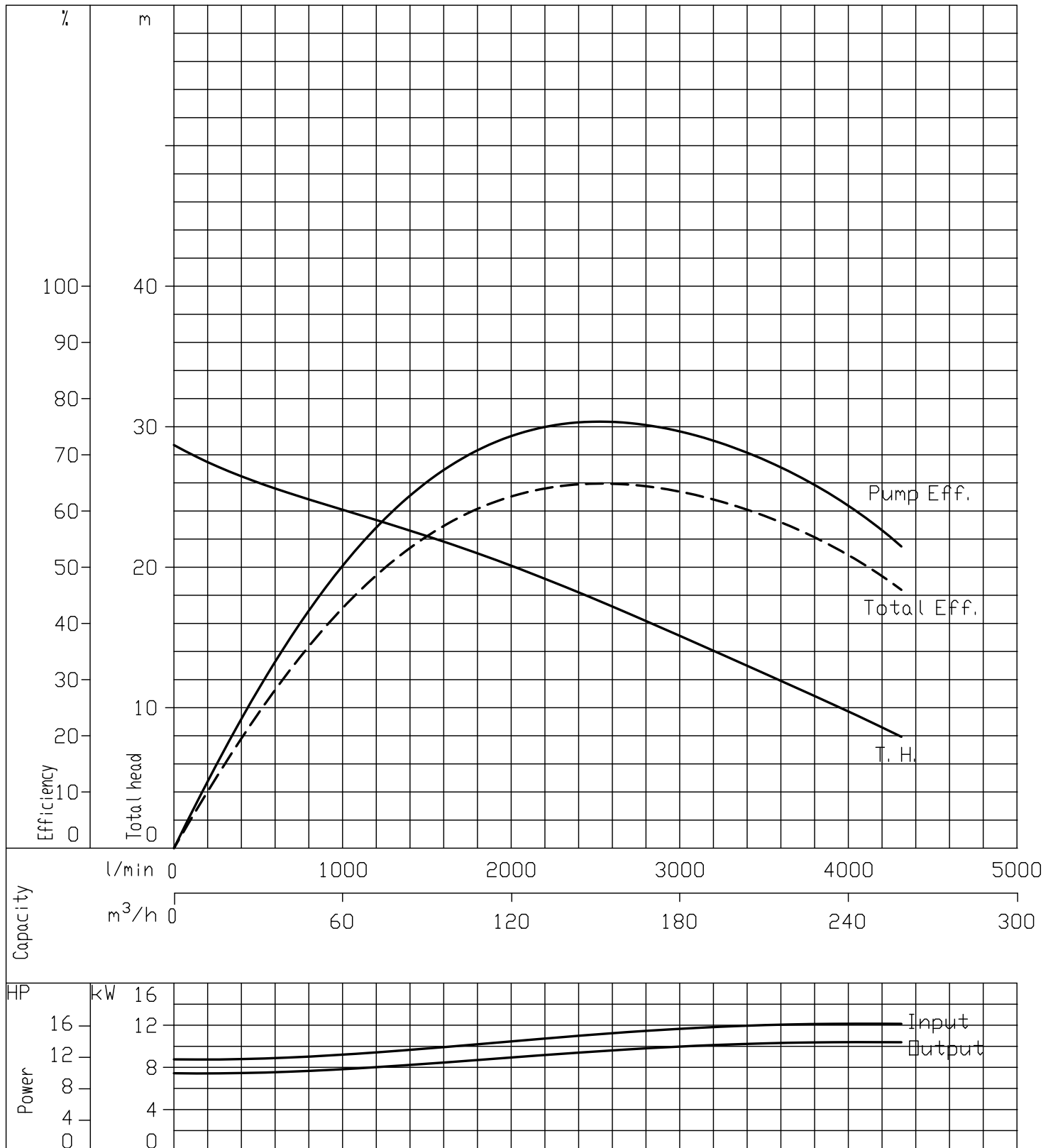


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 100DKE511_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

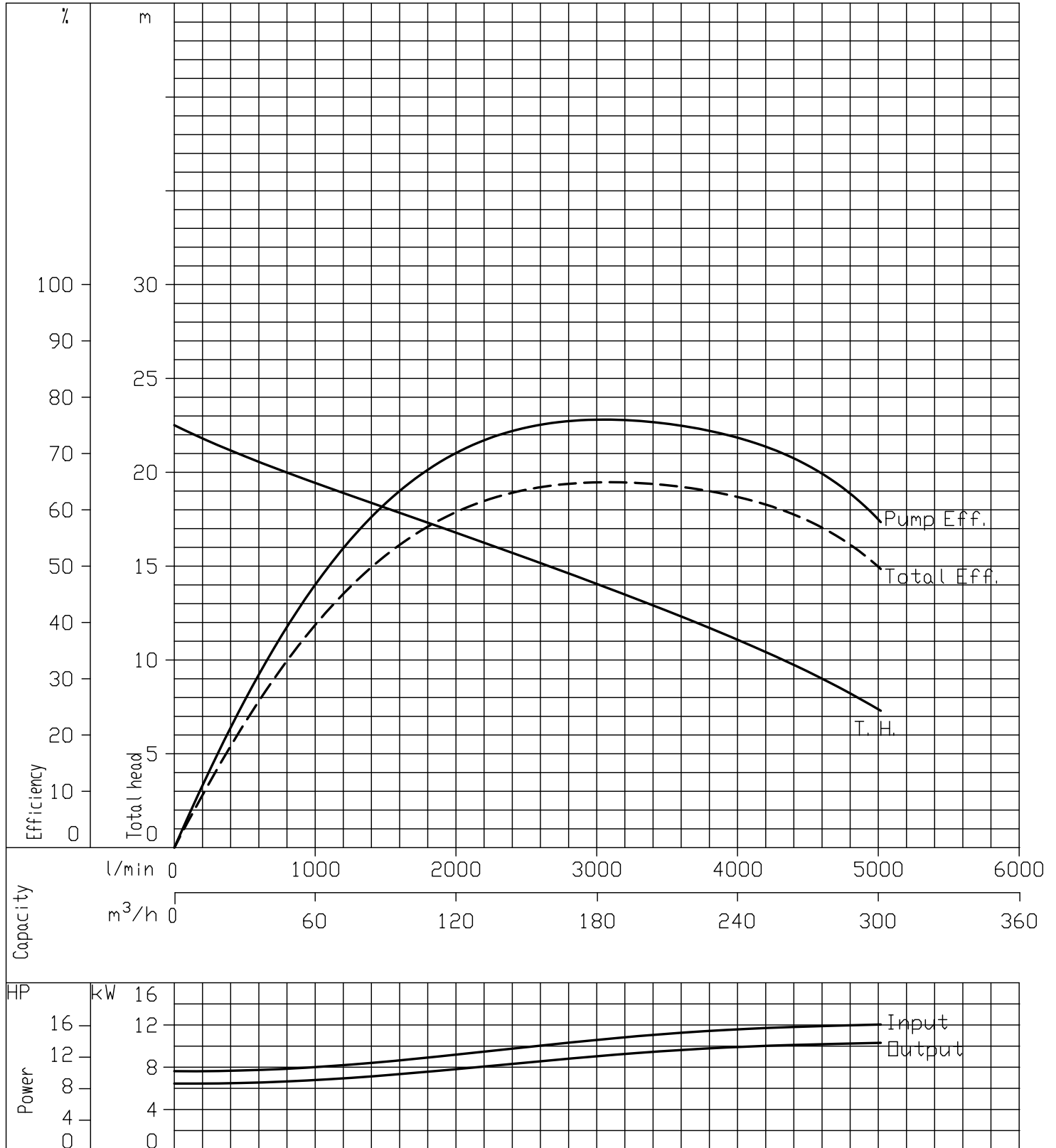


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 150DKE511_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

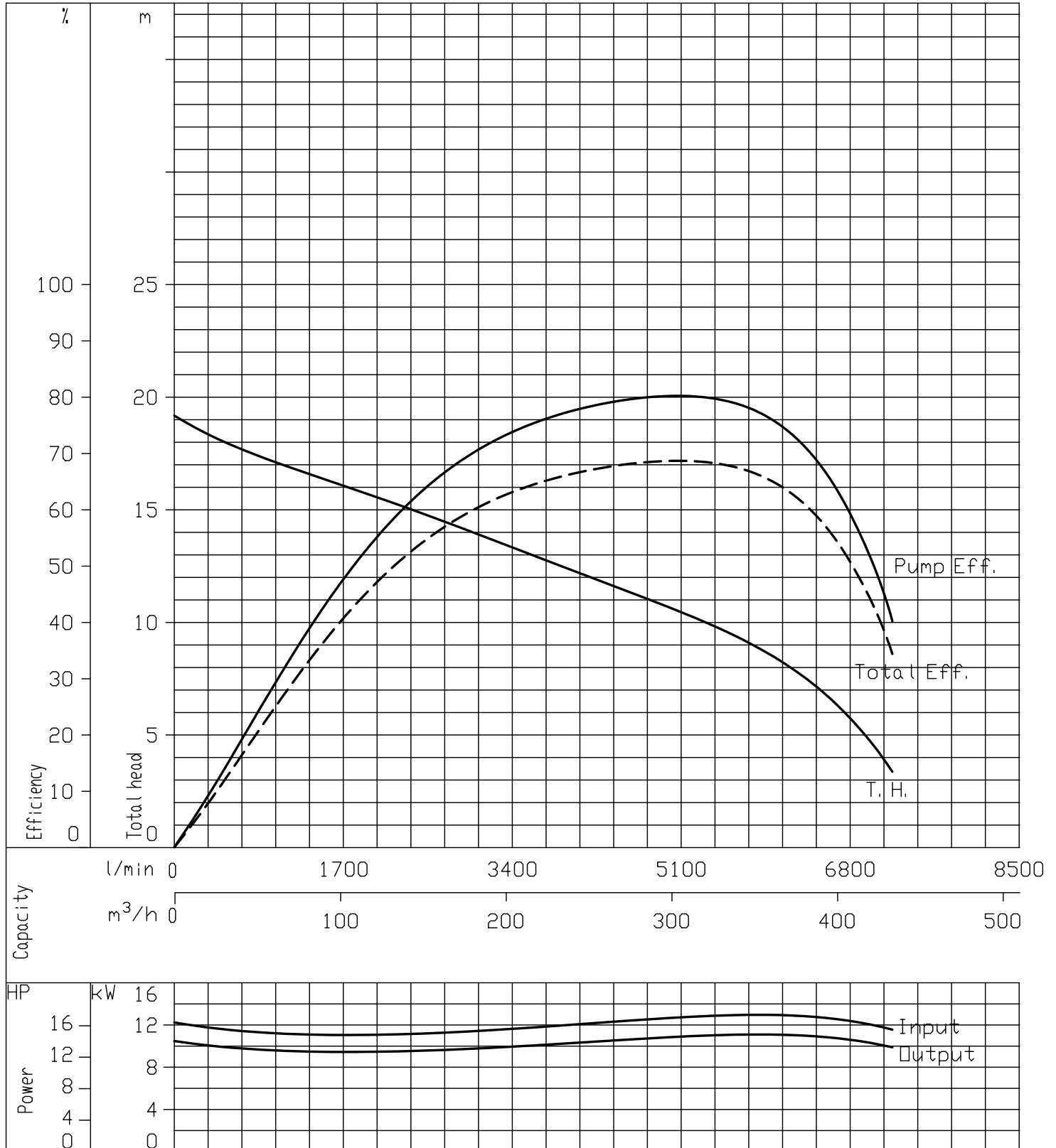


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 200DKE511_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

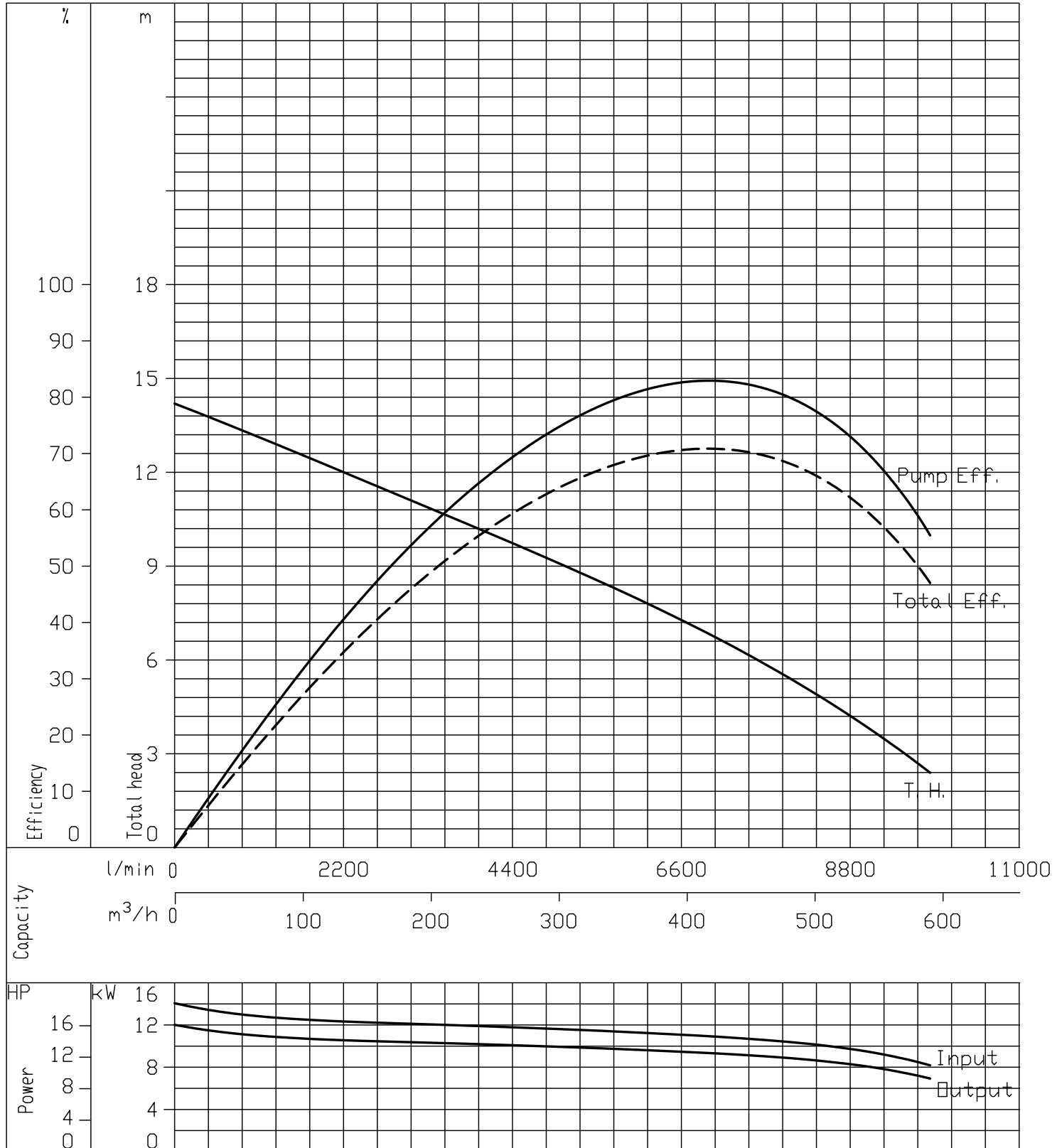


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 250DKE511_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

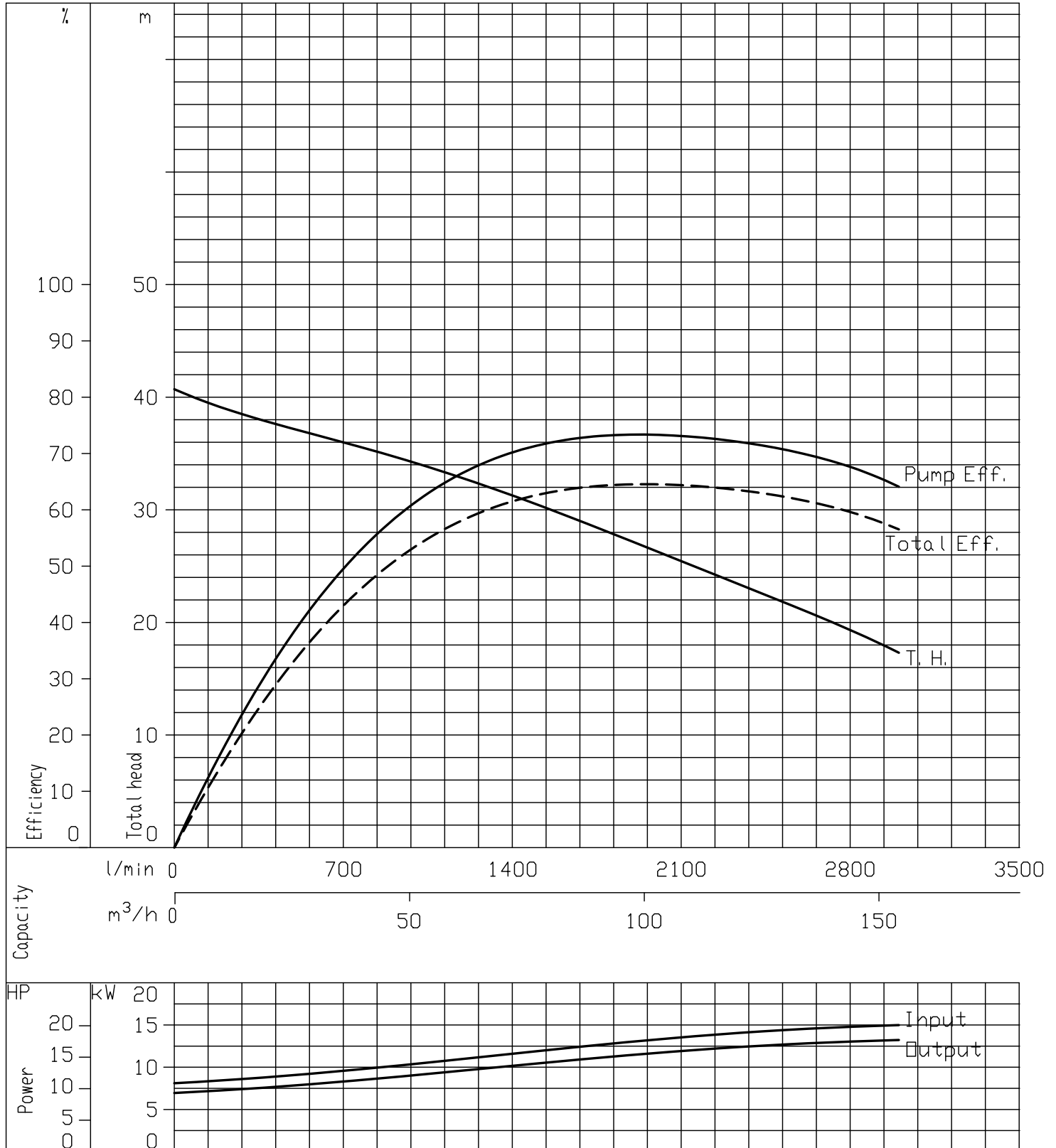


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 100DKEB515_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

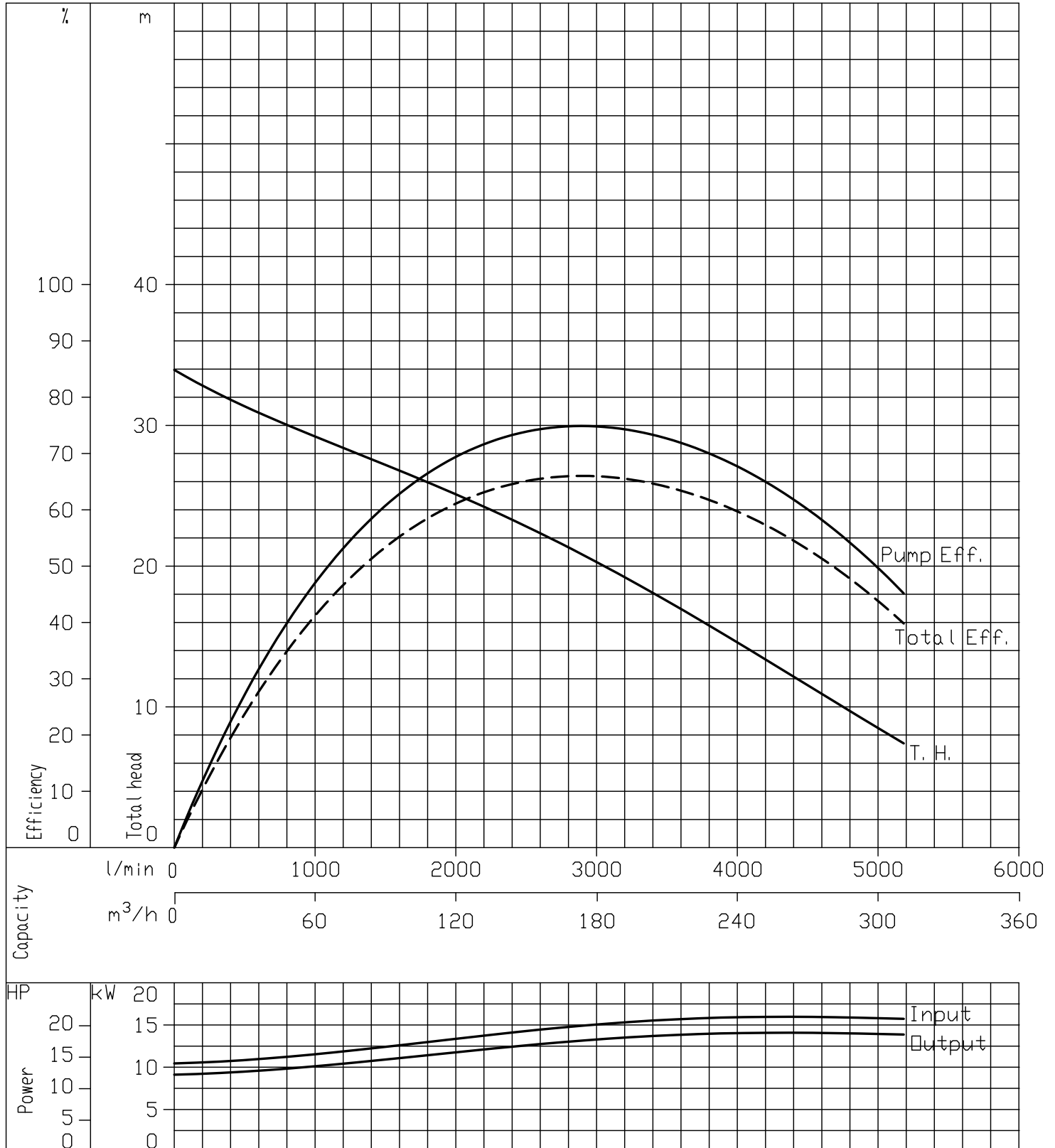


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 100DKE515_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

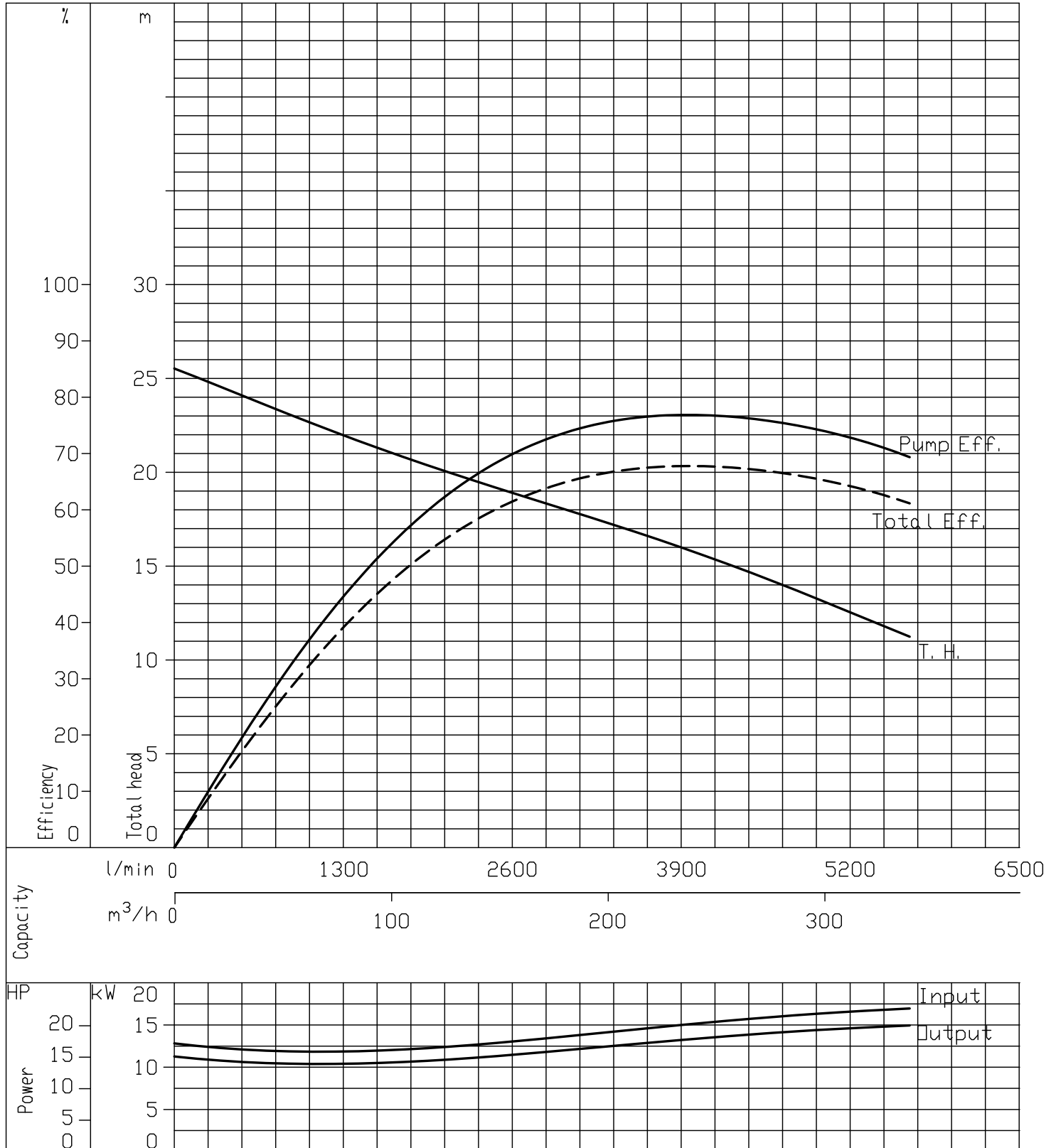


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 150DKE515_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

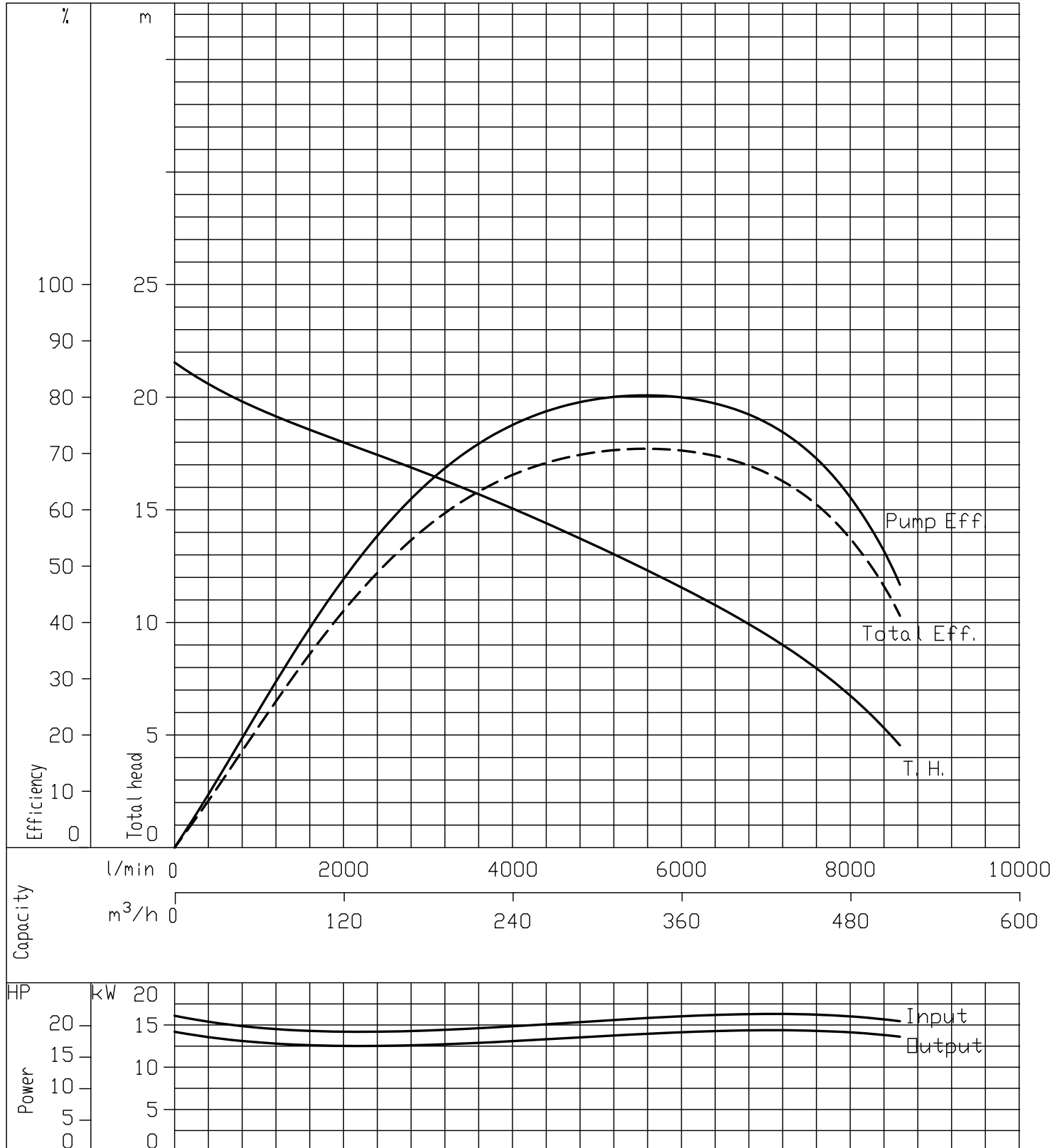


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 200DKE515_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

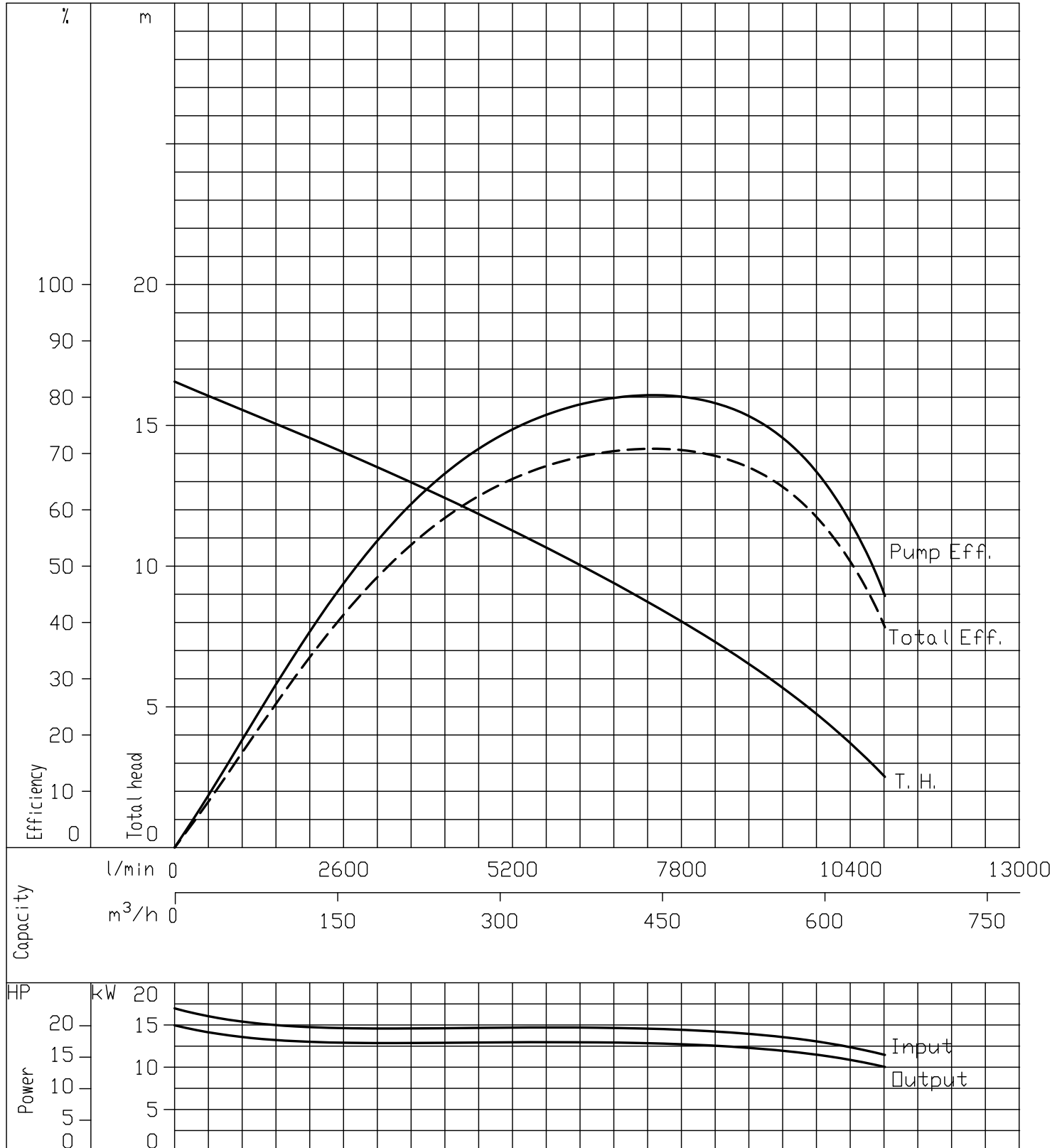


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 250DKE515_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

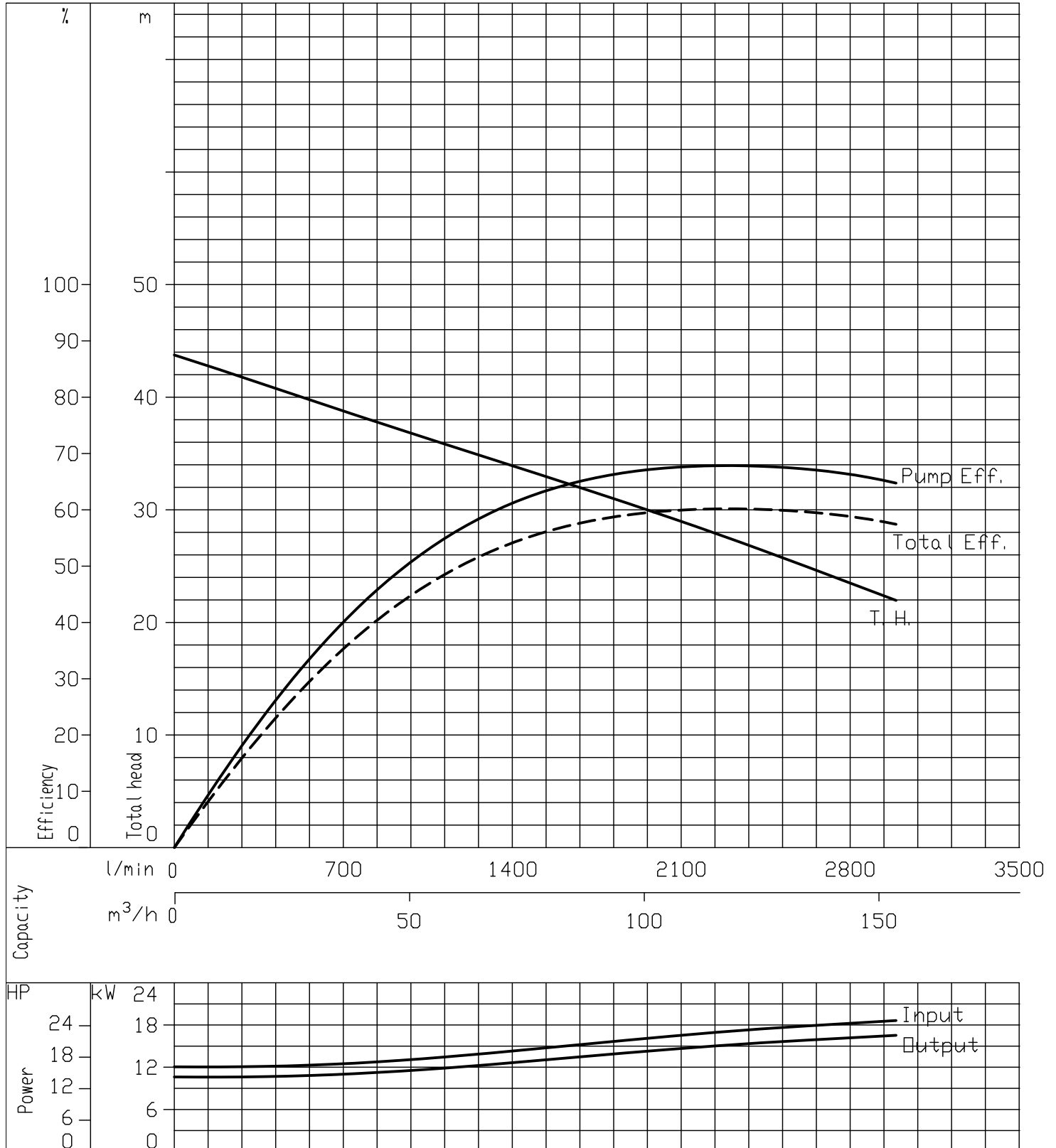


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 100DKEB518_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

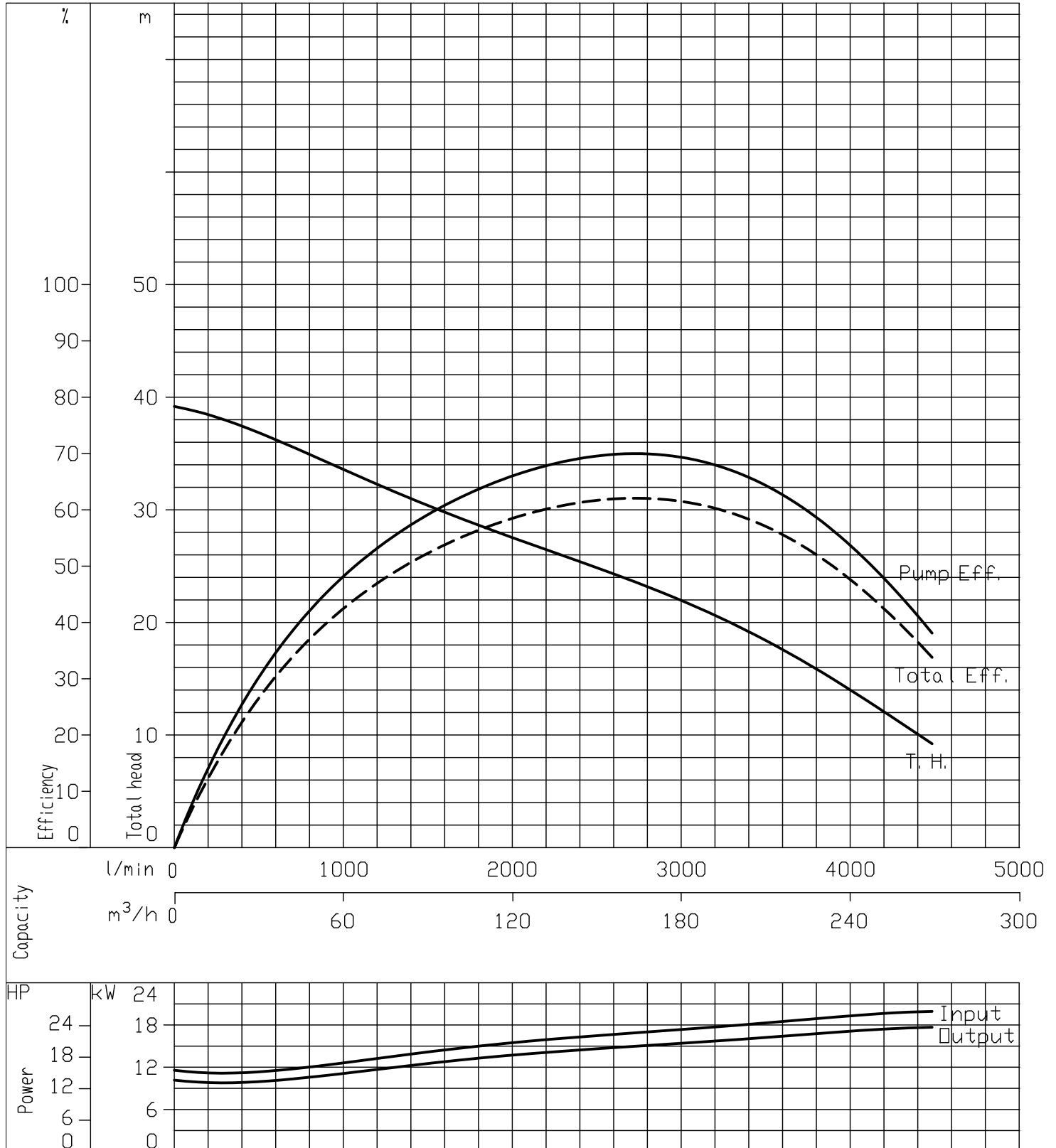


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 100DKE518_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

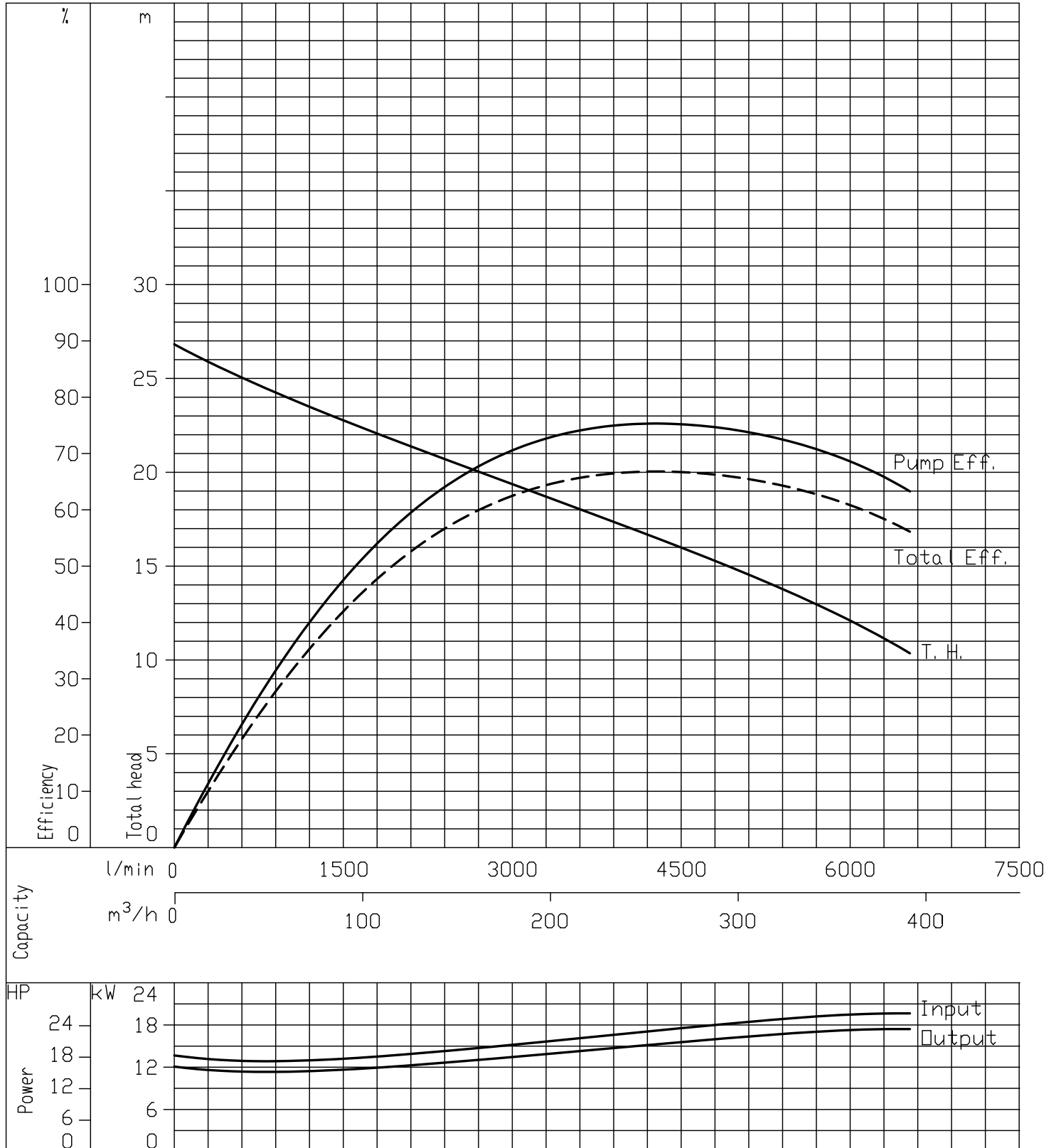


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 150DKE518_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

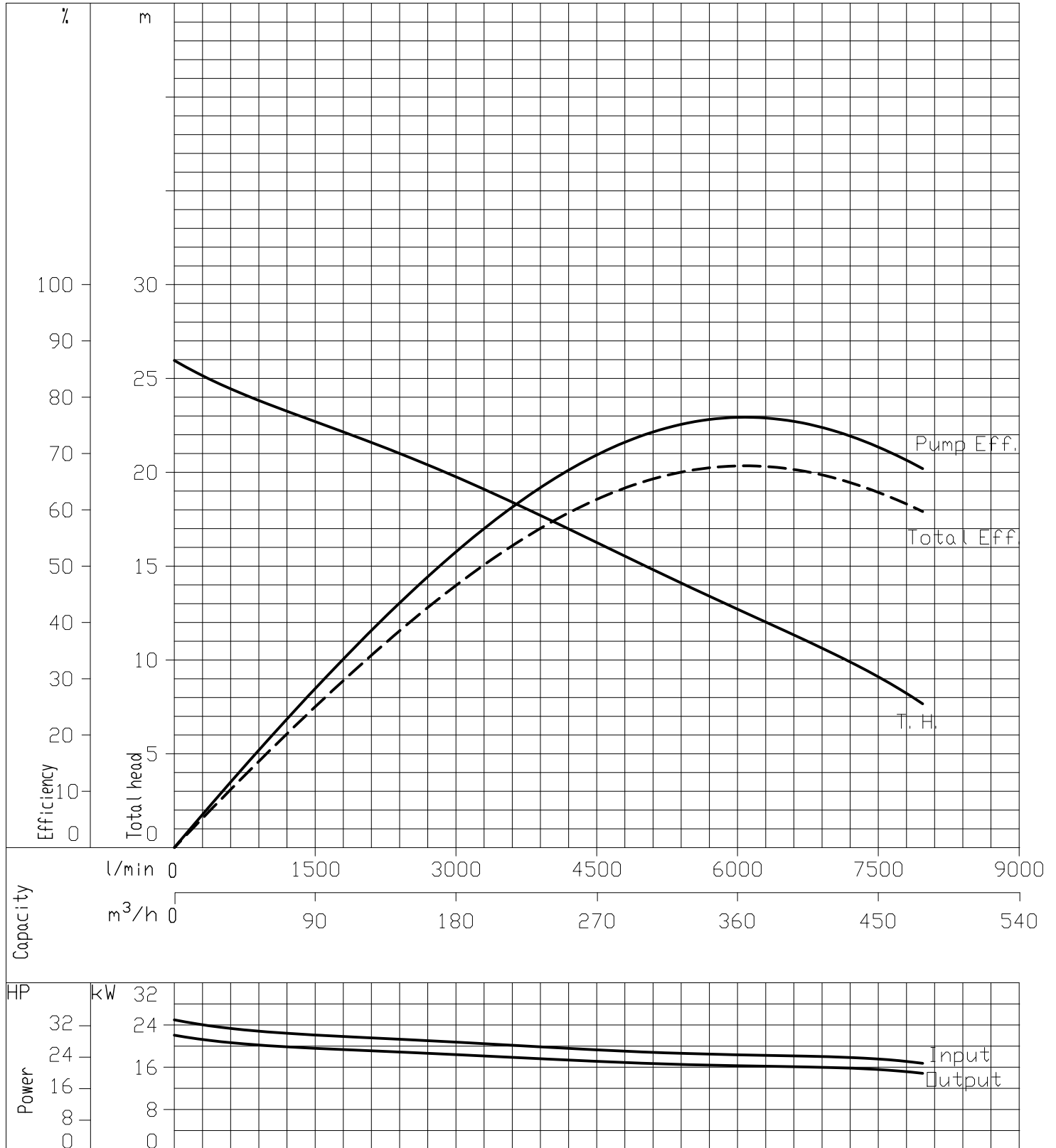


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 200DKE518_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

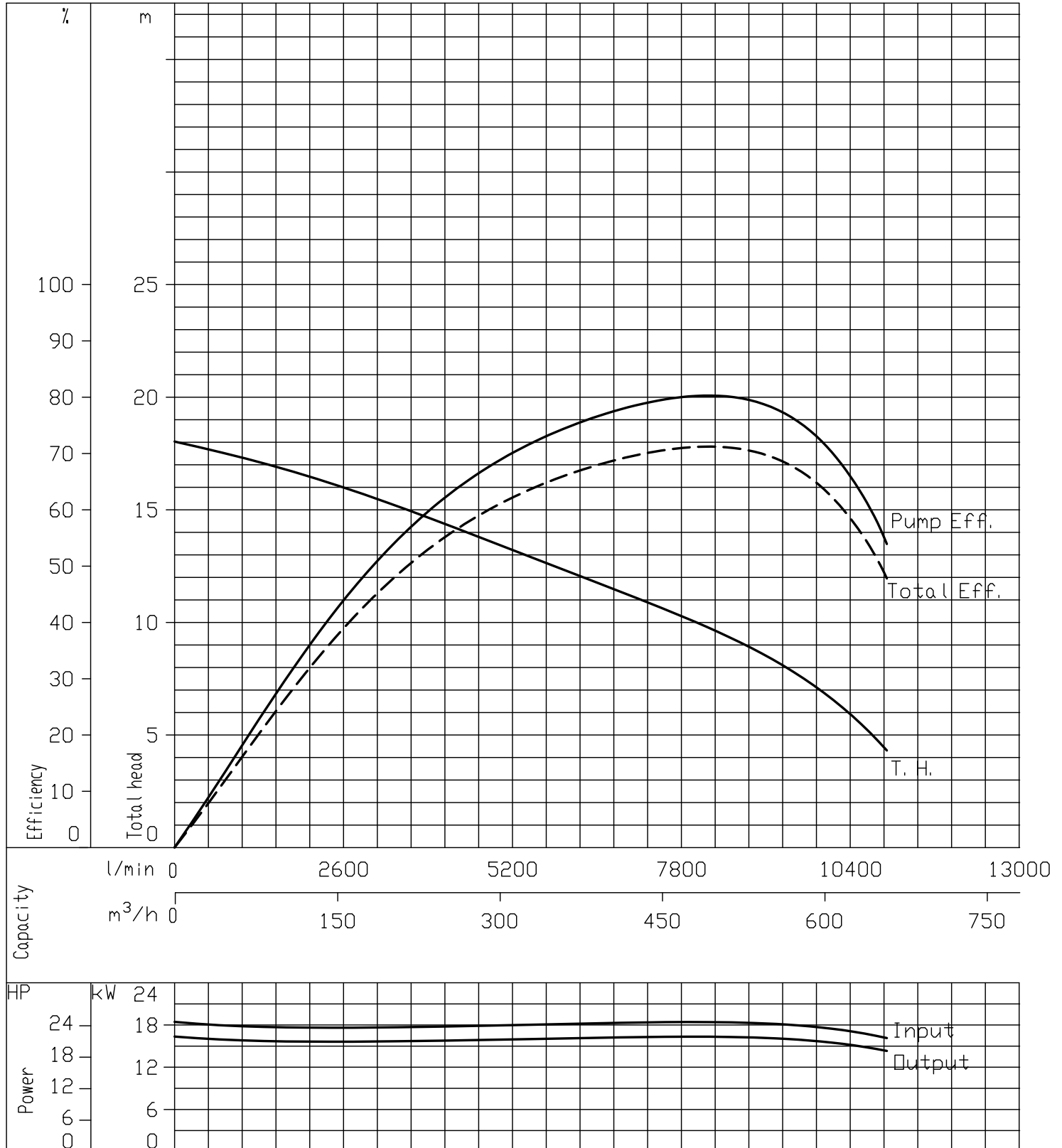


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 250DKE518_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

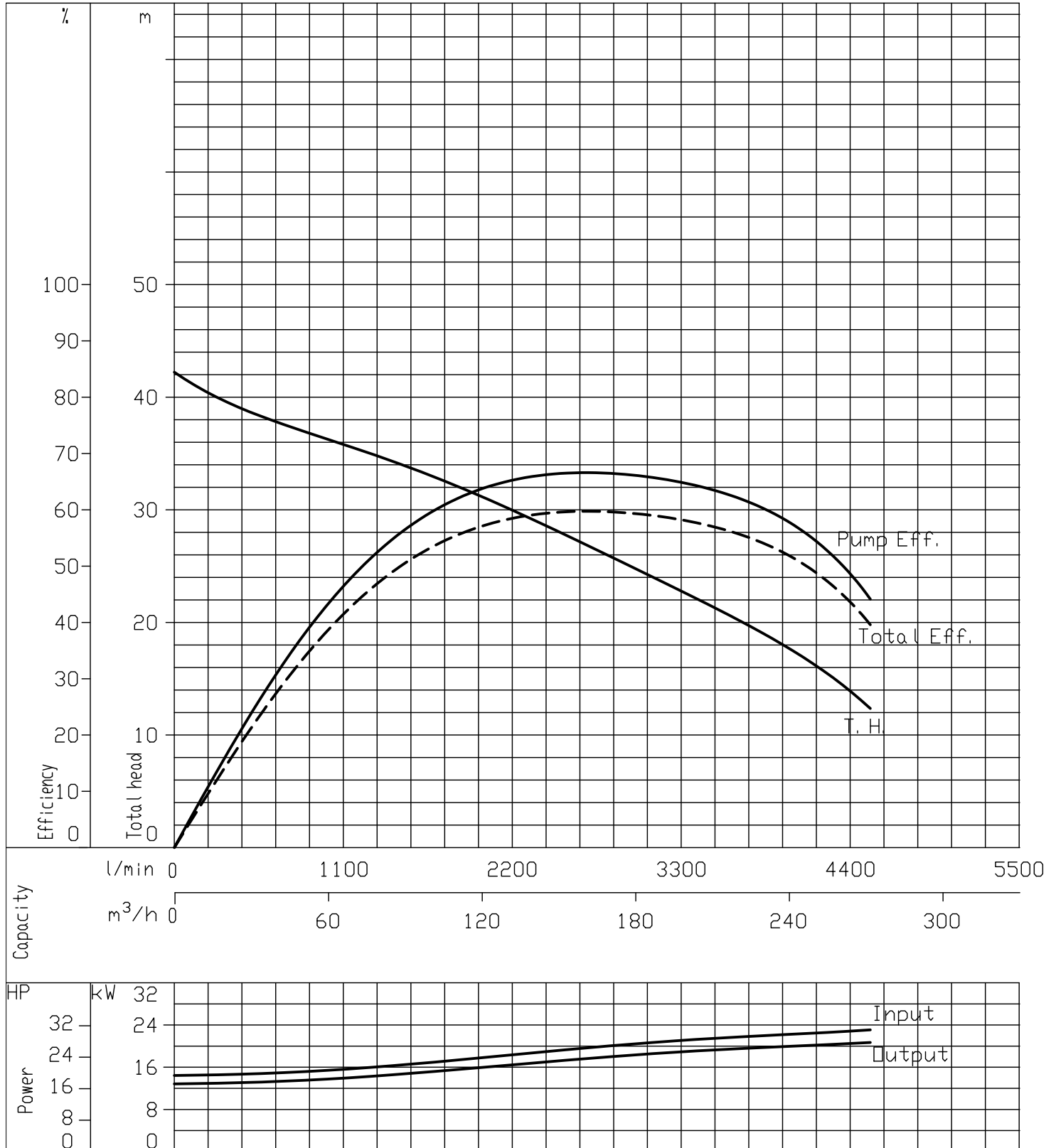


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 100DKE522_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

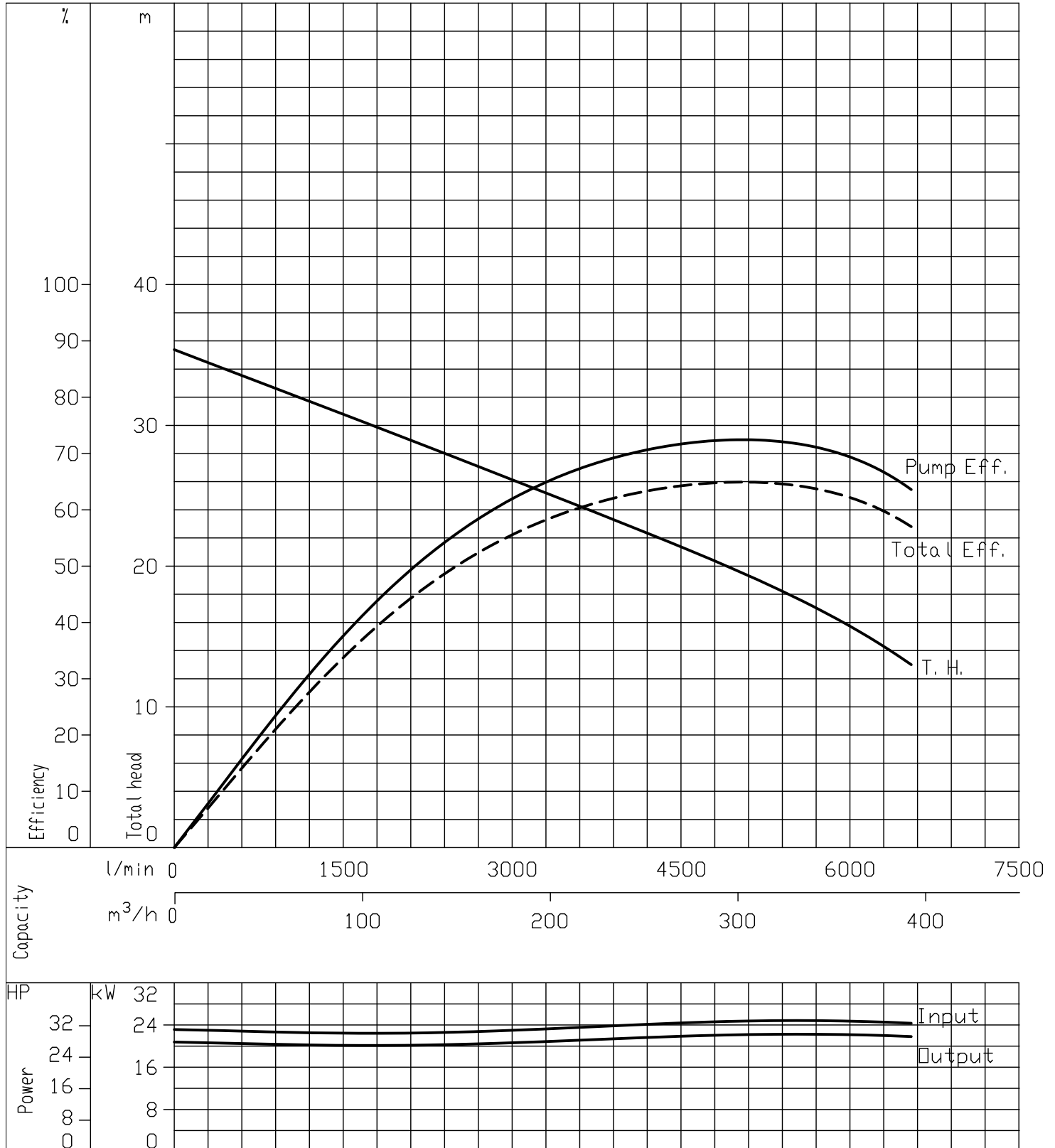


Performance Curve

4 Poles

50Hz

| | | |
|--------------------------|--------------------------|---|
| 150DKE522_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed | 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

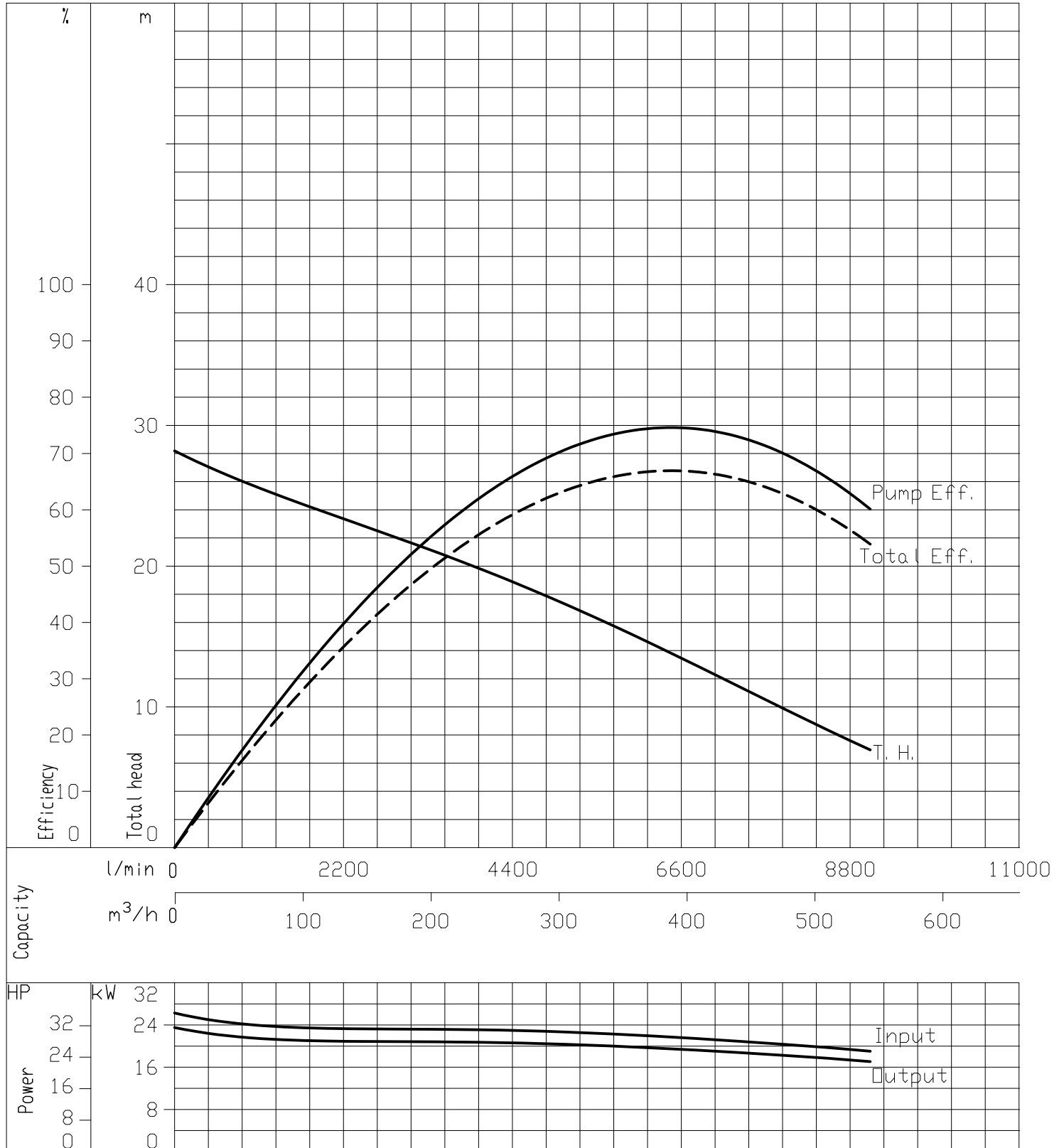


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 200DKE522_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

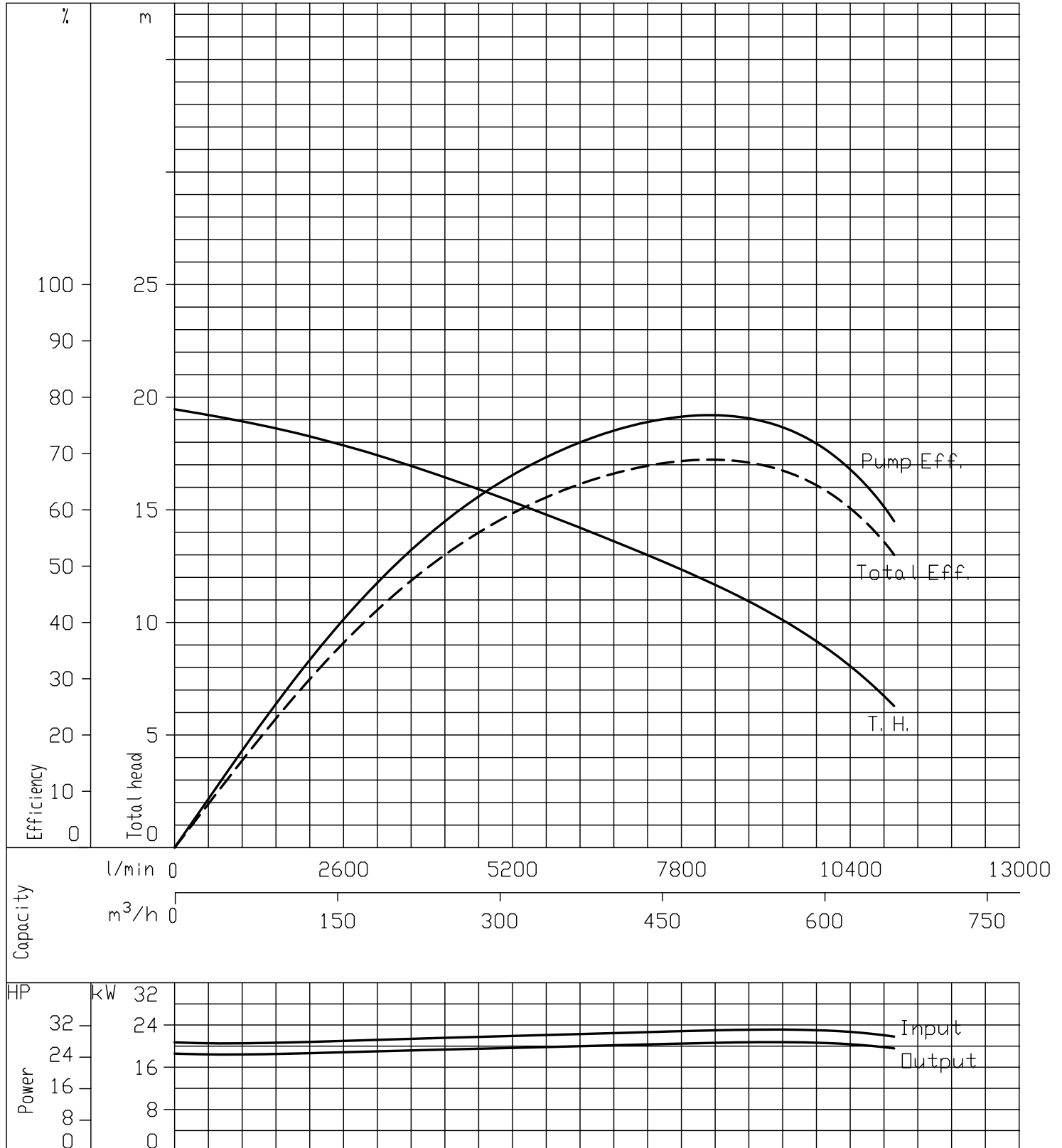


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 250DKE522_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

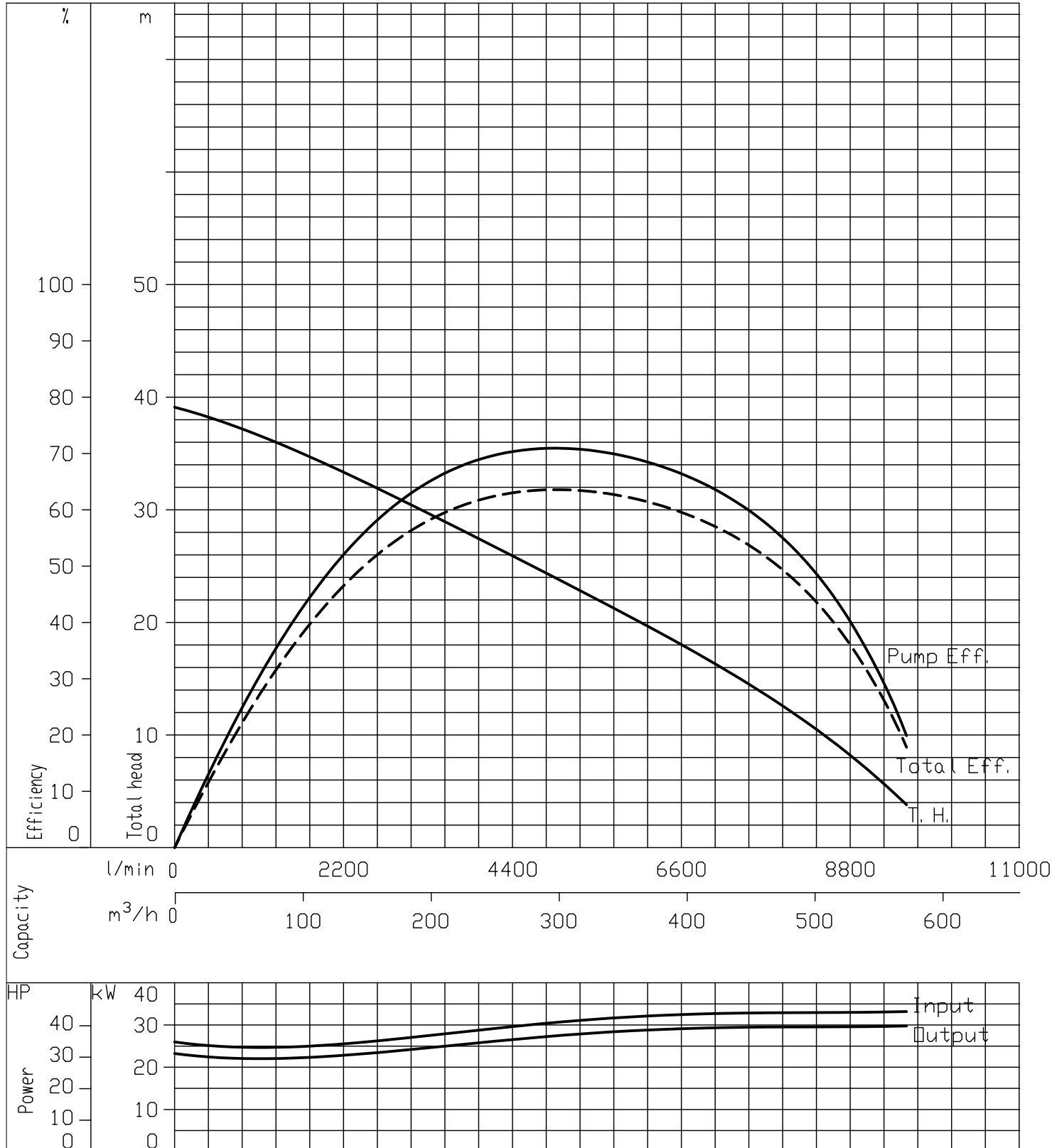


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 150DKE530_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

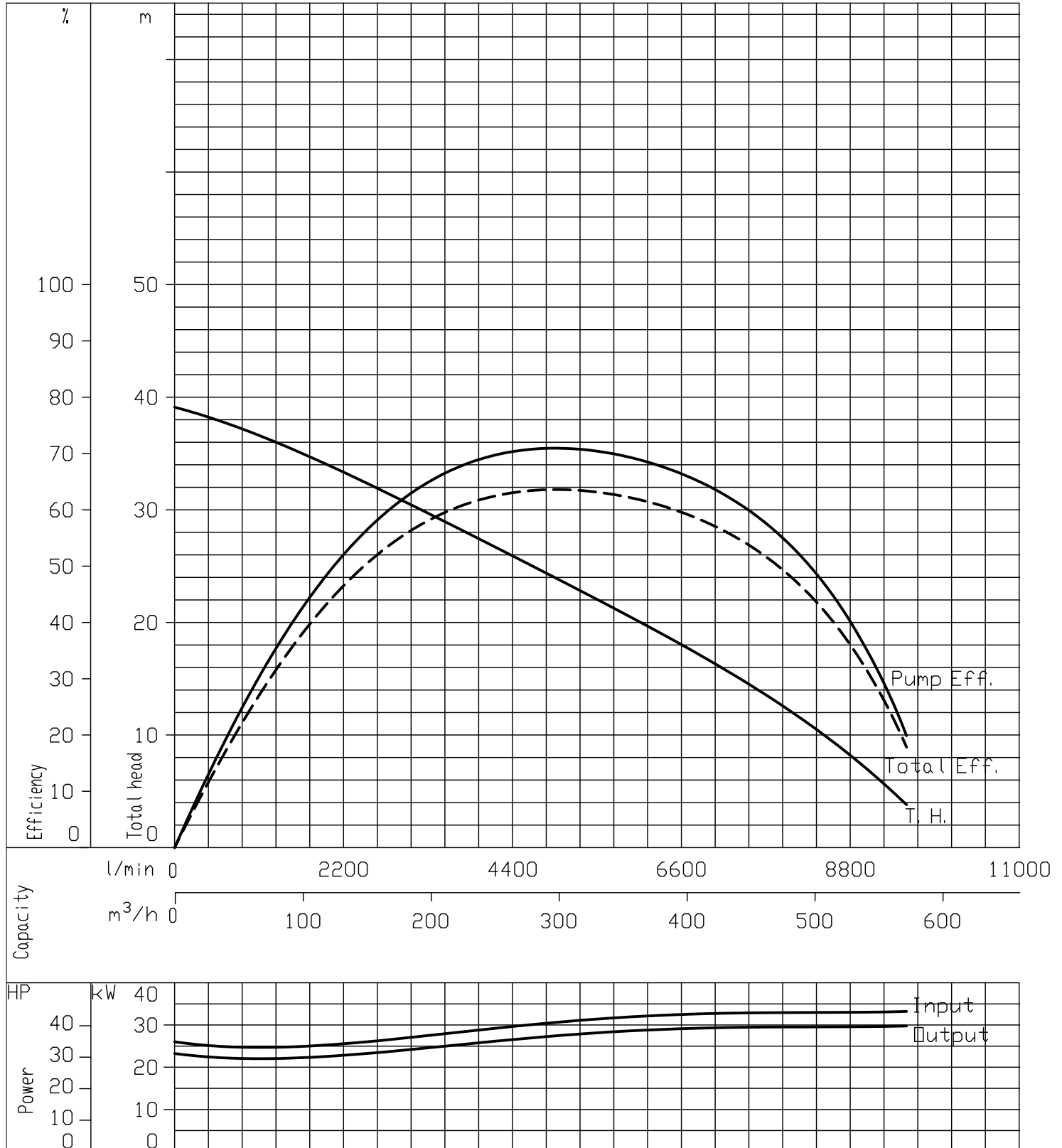


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 200DKE530_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

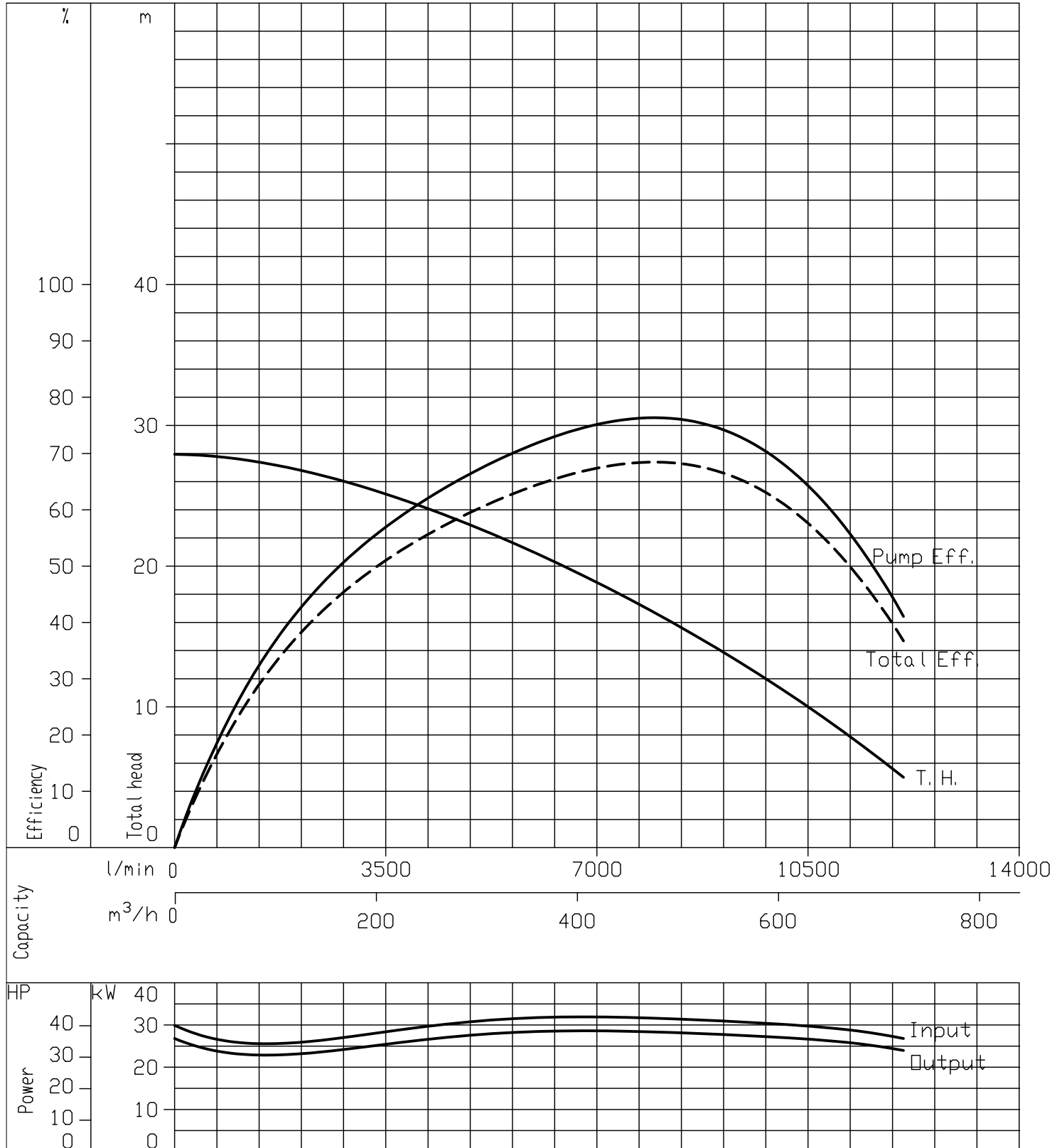


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 250DKE530_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

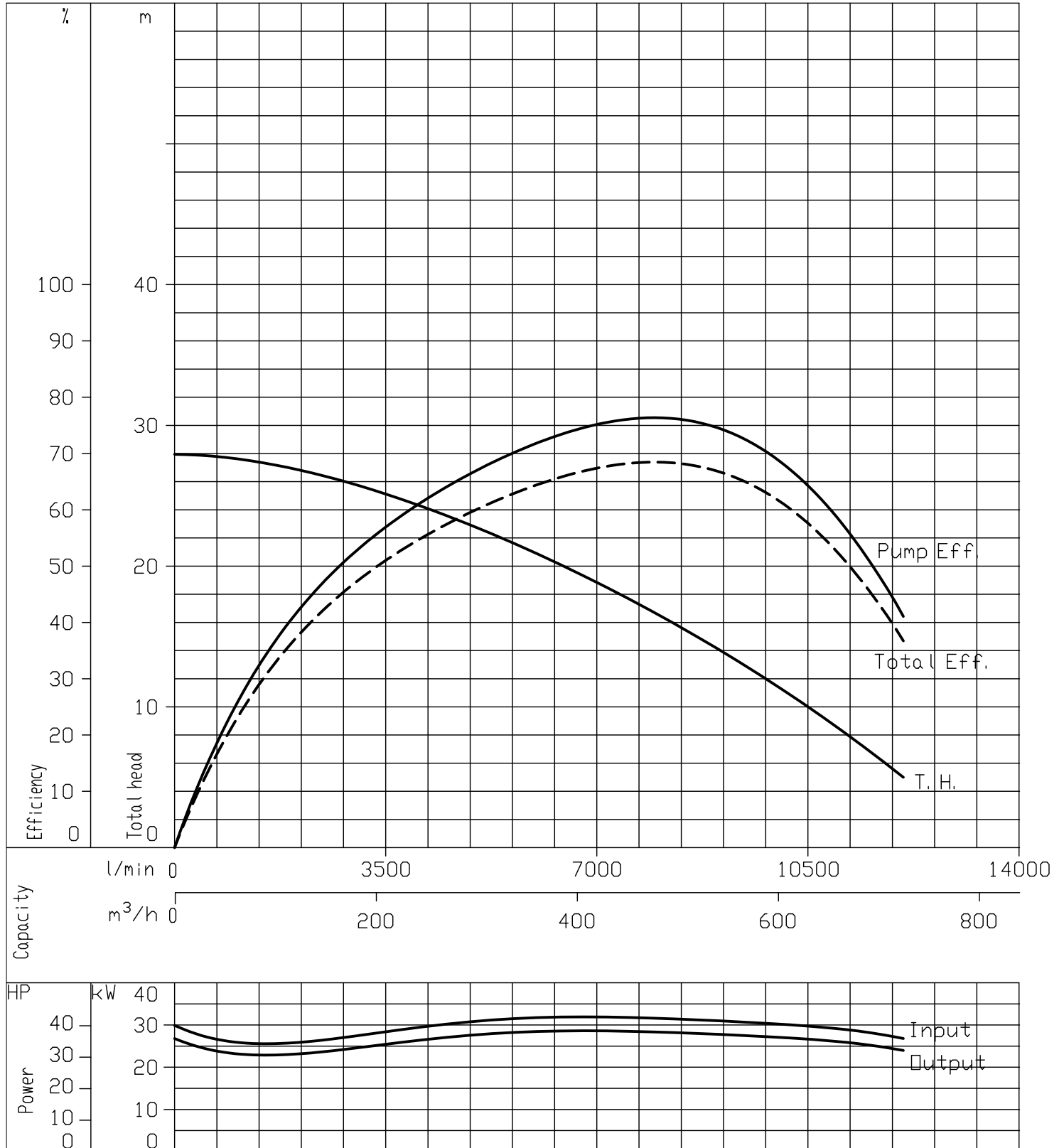


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 300DKE530_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

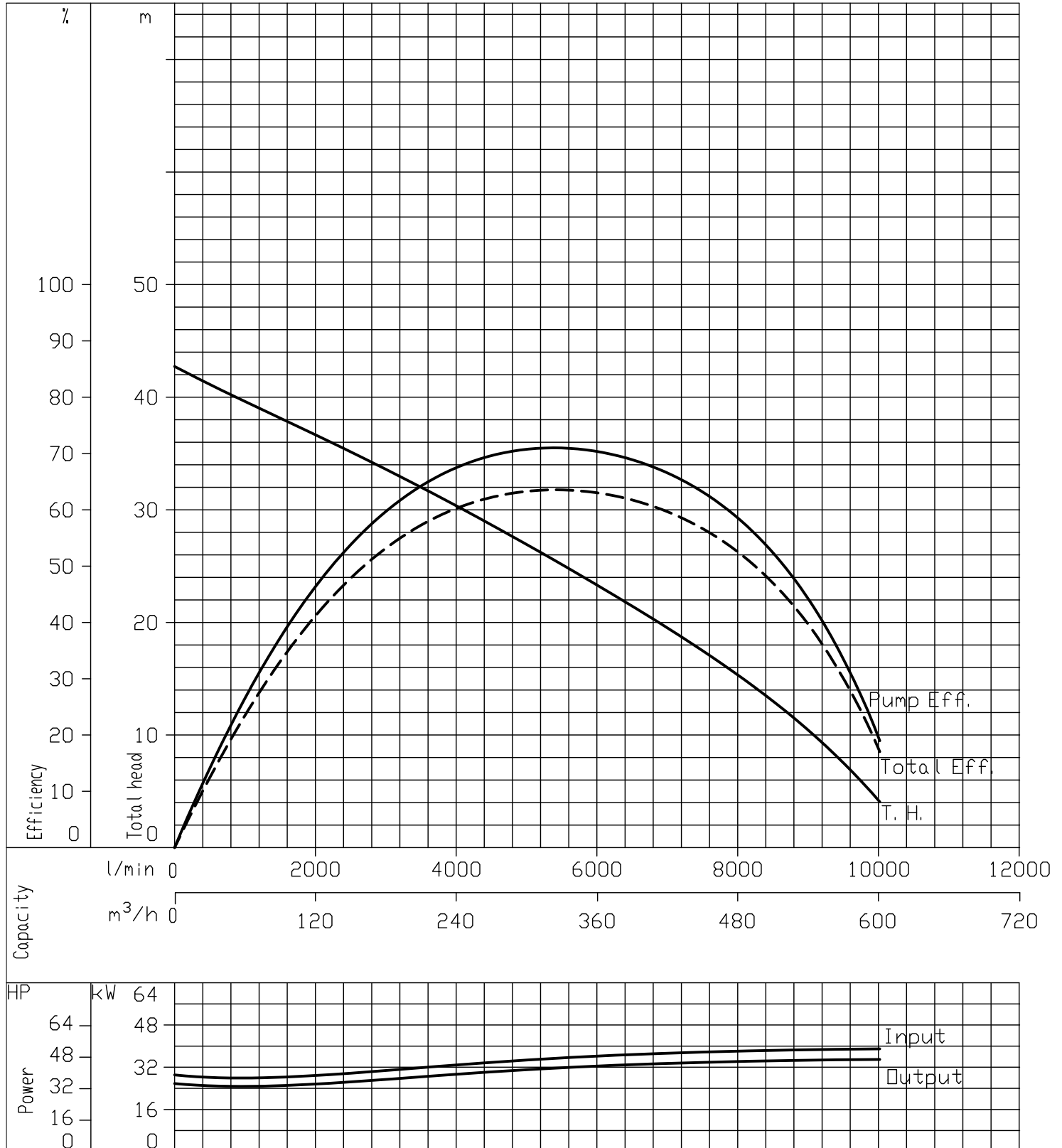


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 150DKE537_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

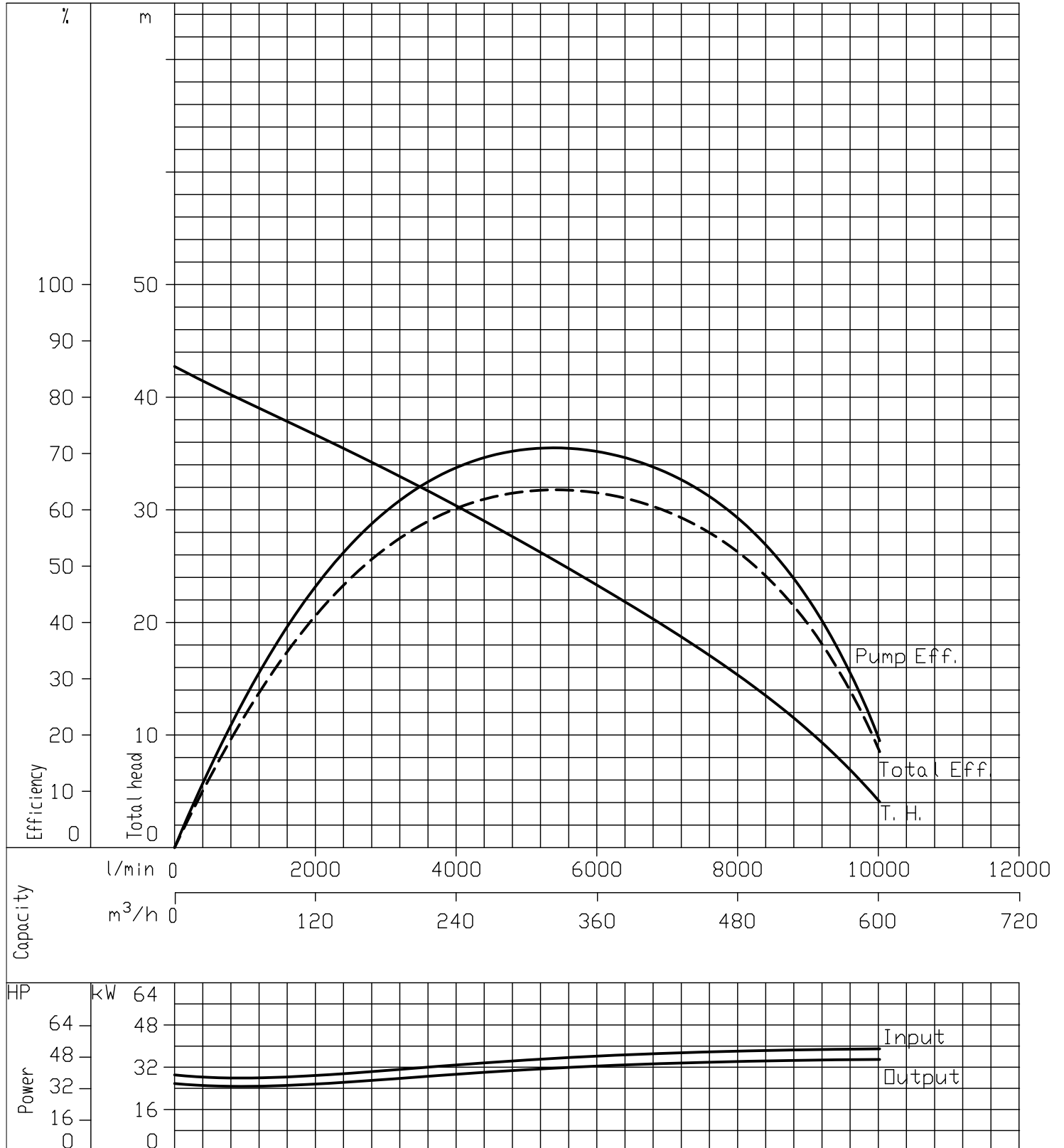


Performance Curve

4 Poles

50Hz

| | |
|--|---|
| <p>200DKE537_IE3</p> | <p>According to ISO testing code 9906 Grade 3B</p> |
| <p>50 Hz (Synchronous Speed 1500 min⁻¹)</p> | <p>Density=1kg/dm³ Viscosity=1mm²/s</p> |

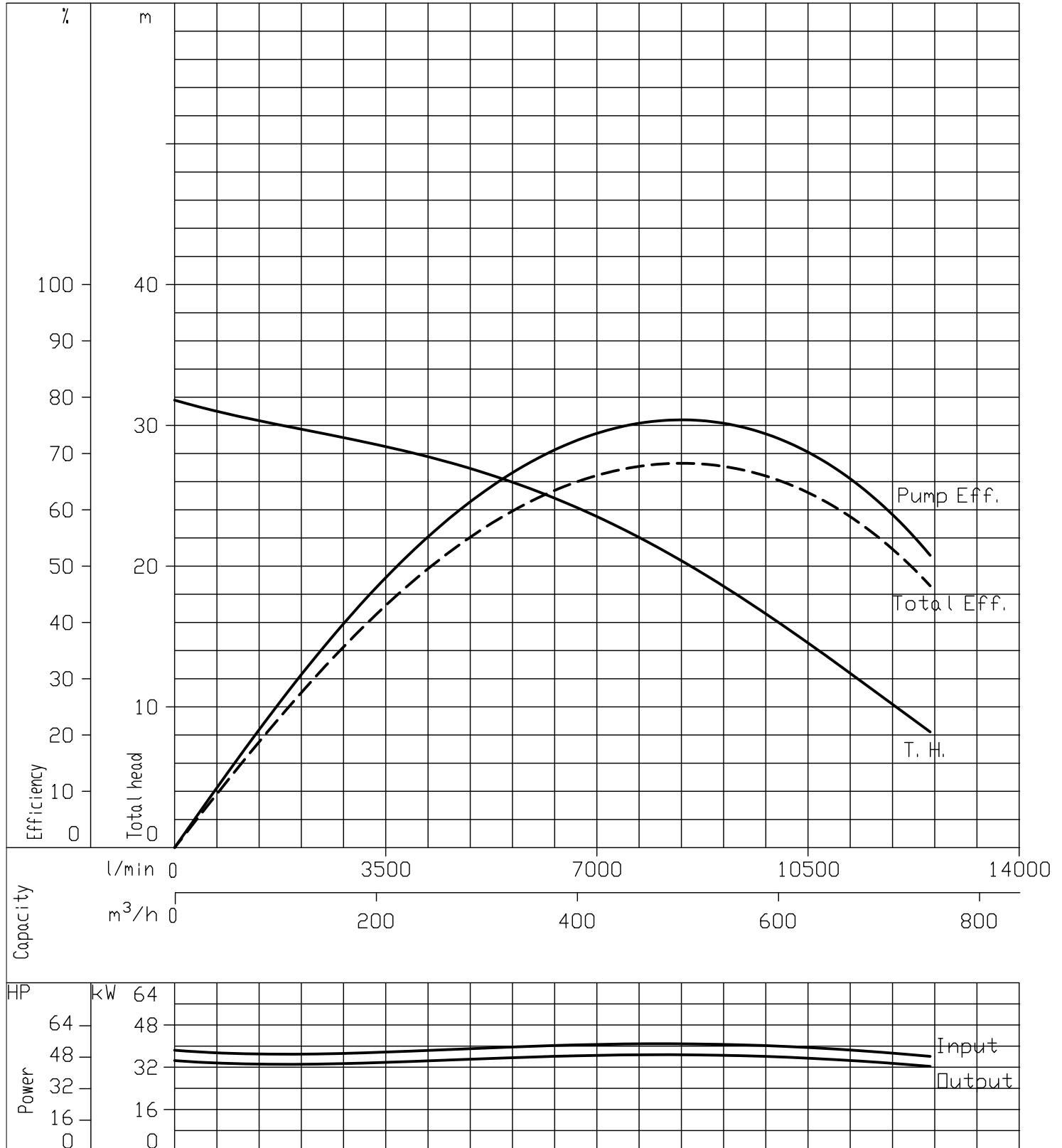


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 250DKE537_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

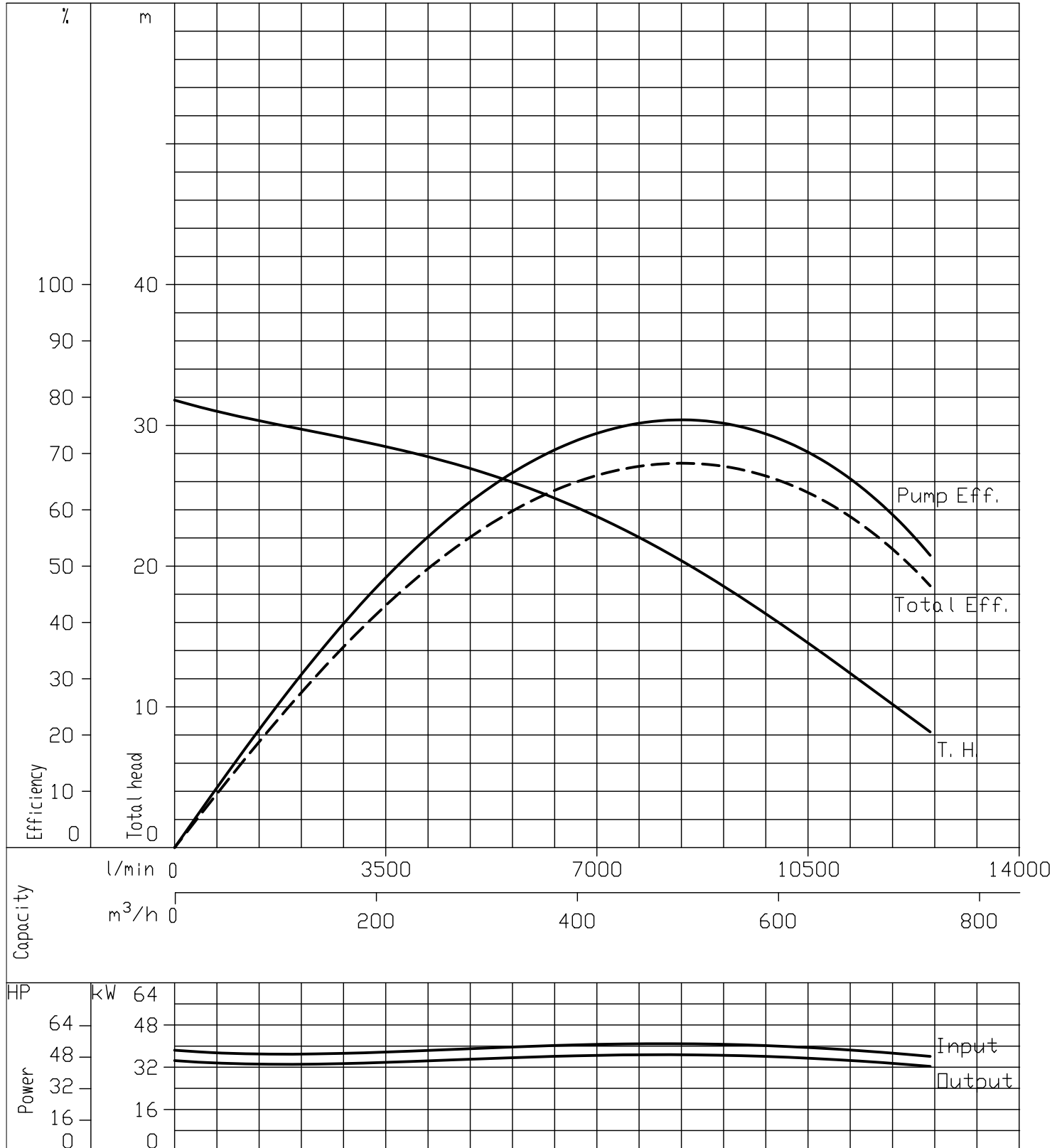


Performance Curve

4 Poles

50Hz

| | | |
|---|--|---|
| 300DKE537_IE3 | | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | | Density=1kg/dm ³ Viscosity=1mm ² /s |

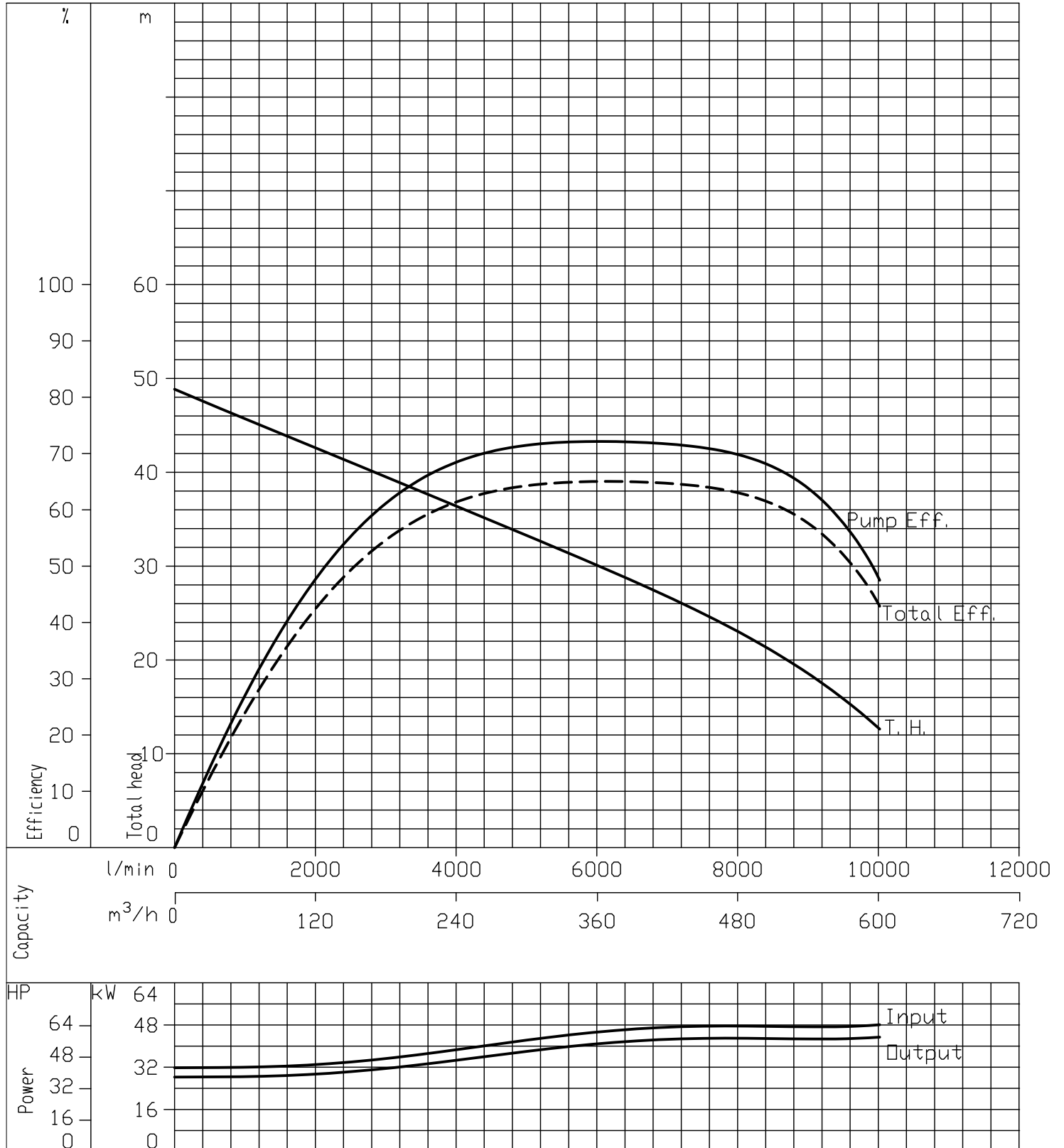


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 150DKE545_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

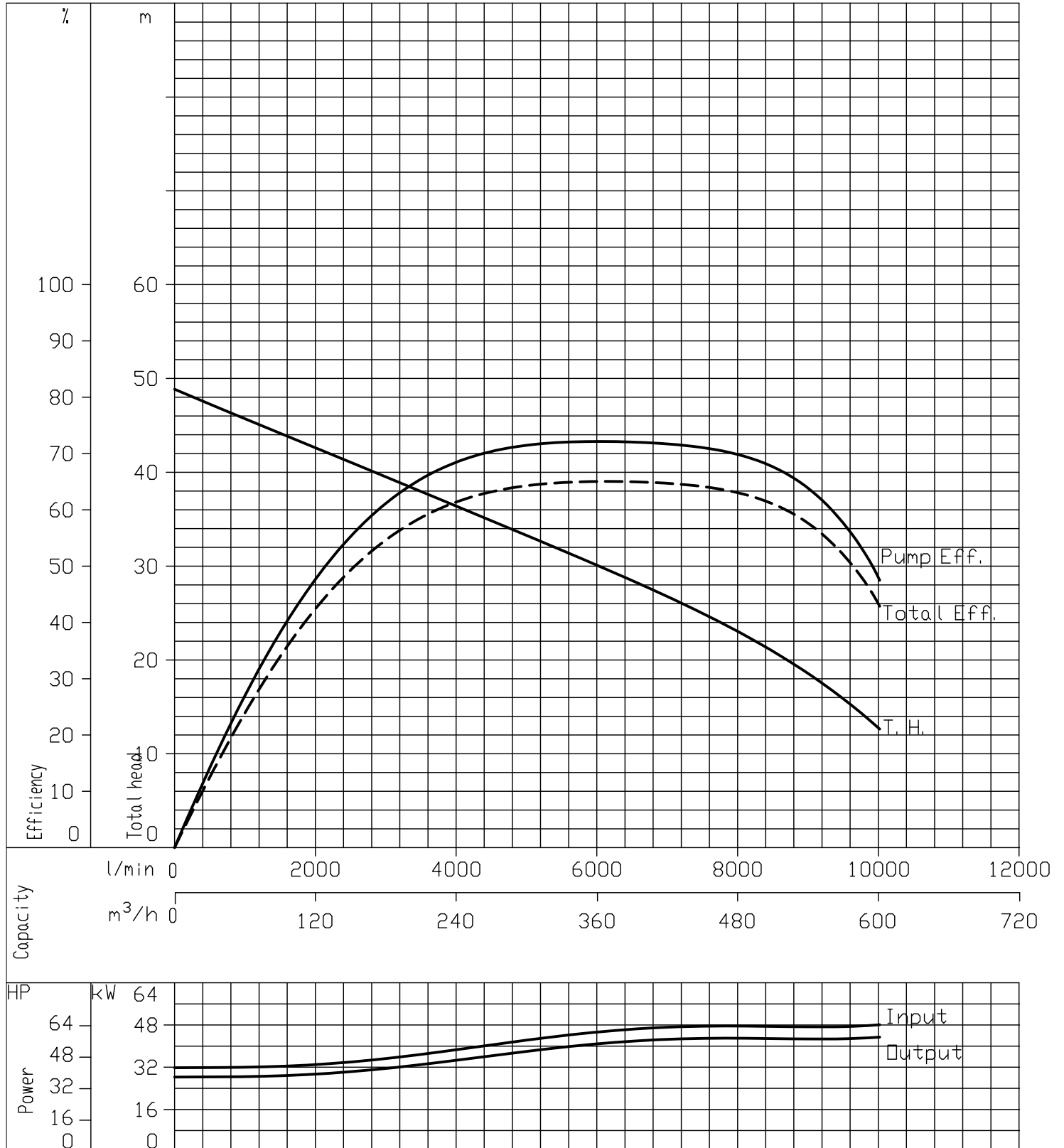


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 200DKE545_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

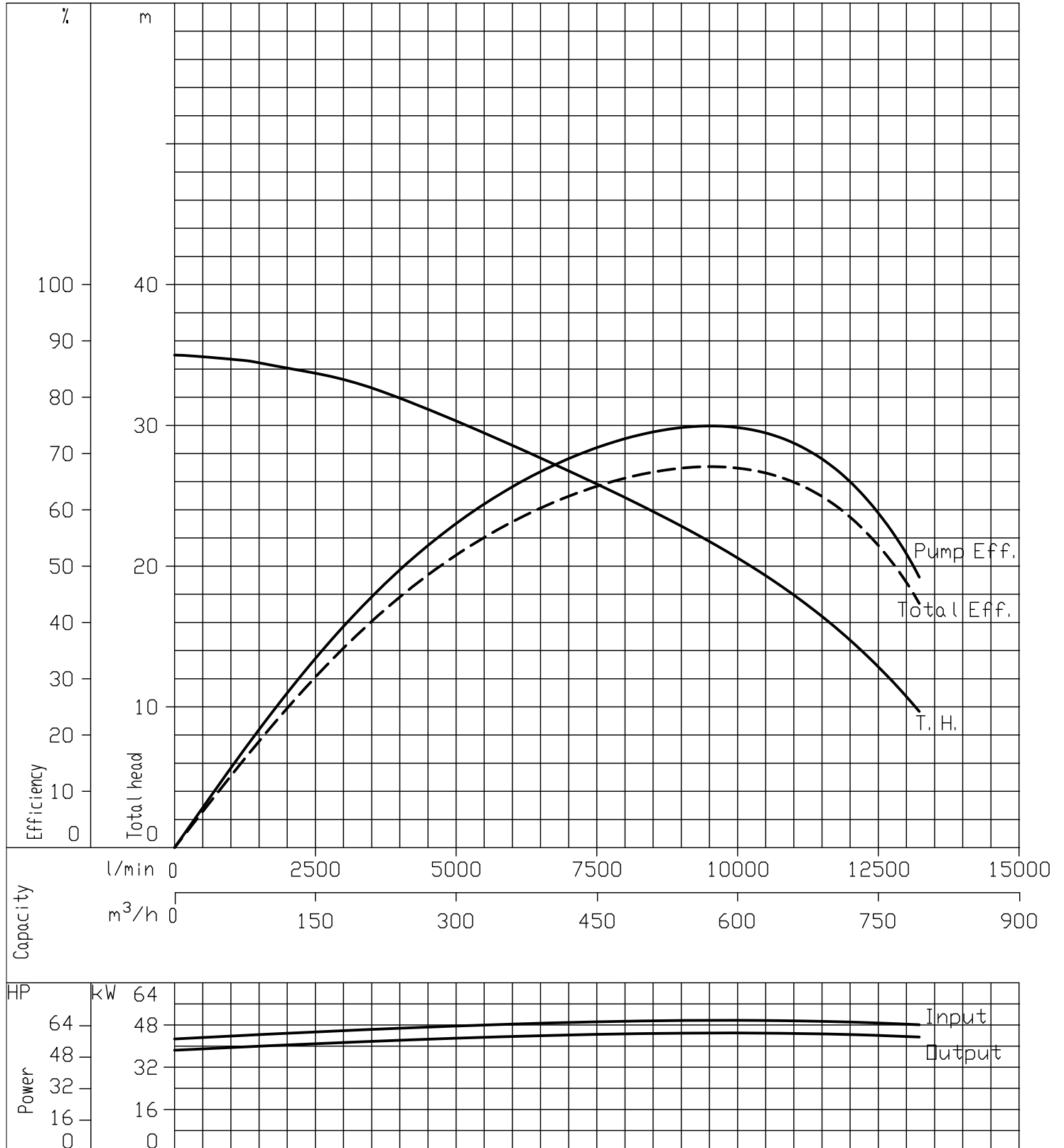


Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 250DKE545_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |

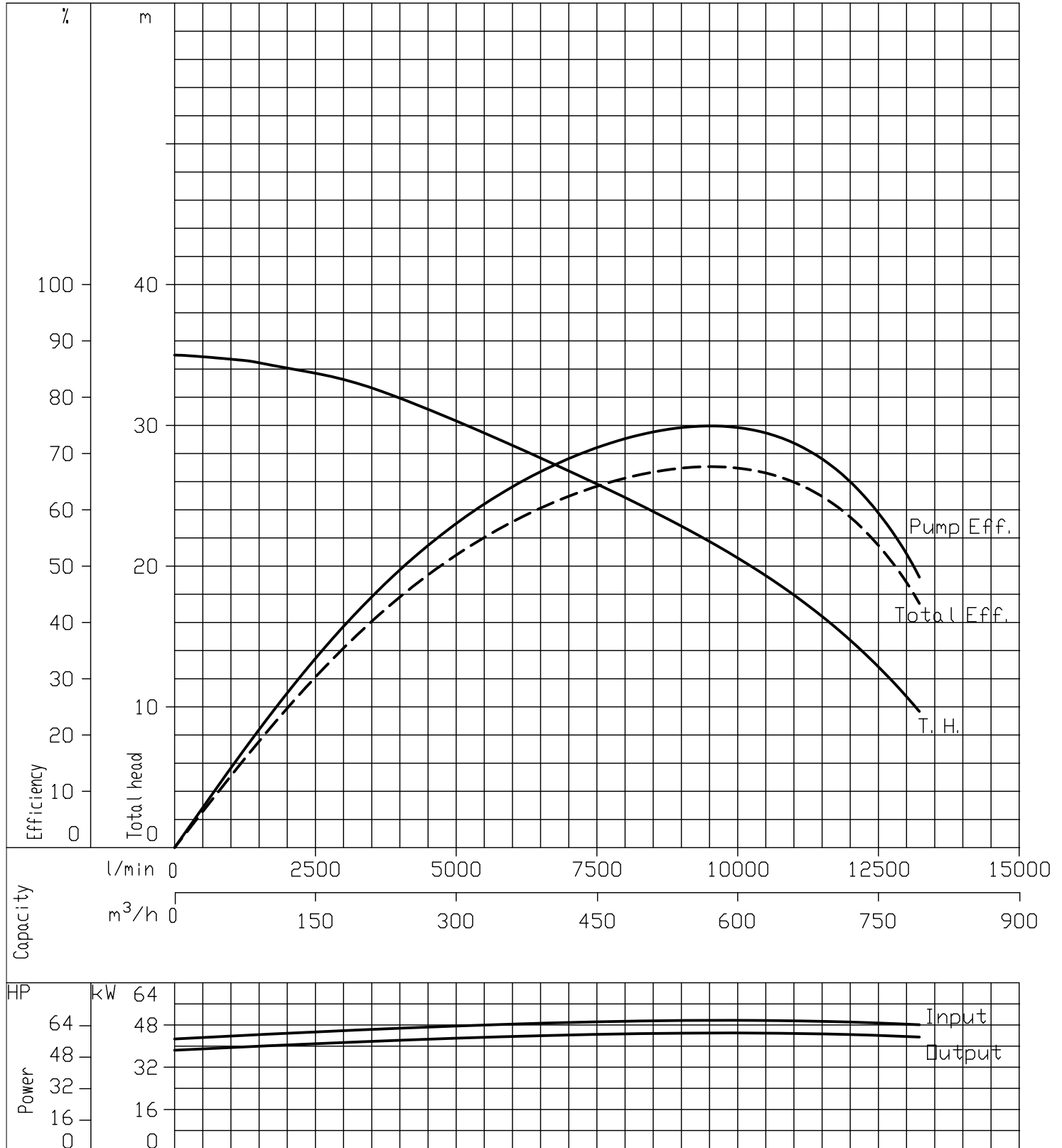


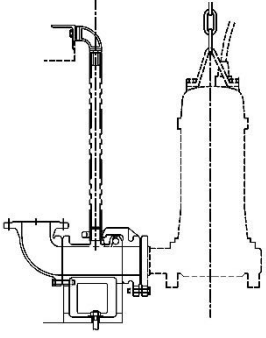
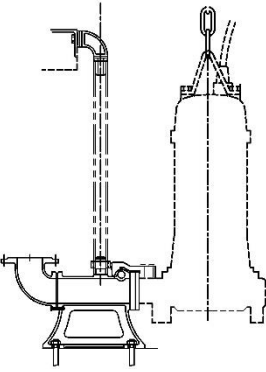
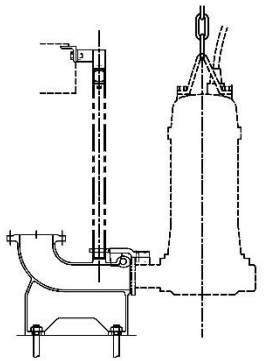
Performance Curve

4 Poles

50Hz

| | |
|---|---|
| 300DKE545_IE3 | According to ISO testing code 9906 Grade 3B |
| 50 Hz (Synchronous Speed 1500 min ⁻¹) | Density=1kg/dm ³ Viscosity=1mm ² /s |



| QDC Selection Table | QDC Model | Size | | | | Applicable Model |
|--|-----------|-----------------------|----------------------|---------------|--------------------|----------------------|
| | | Dischrege Flange φ | Dischrege Elbow φ | QDC Body φ | Casing Flange φ | DKE |
| LM  | LM65 DI | 65 | 65×65 | 65 | 65 | 65DKE51.5 |
| | LM80 DI | 80 | 80×80 | 80 | 80 | 80DKE 1.5-3.7kW |
| LL Separated Type  | LL80 DI | 80 | 80×80 | 80 | 80 | 80DKE 5.5-7.5kW |
| | LL100 F | 100 | 100×100 | 100 | 100 | 100DKE 3.7-22kW |
| | LL150 F | 150 | 150×150 | 150 | 150 | 150DKE 5.5-18.5kW |
| | LL150 YF | 150 | 150×150 | 150 | 150 | 150DKE522 |
| | LL150 | 150 | 150×150 | 150 | 150 | 150DKE 30-45kW |
| | | 200 | 150×200 | 150 | 150 | 200DKE 30-45kW |
| LL Combined Type  | LL250 F | 250 | / | 200×250 | 200 | 200DKE 7.5-15kW |
| | LL250 YF | 250 | / | 200×250 | 200 | 200DKE 18.5-22kW |
| | LL300 F | 300 | / | 250×300 | 250 | 250DKE 11-22kW |
| | LL300 | 250 | (Reducer) 300×250 | 250×300 | 250 | 250DKE 30-45kW |
| | | 300 | / | 250×300 | 250 | 300DKE 30-45kW |

■ Applicable Models – DKE

| Output kW | Mechanical Seal Type | Lubricant oil | Bearings | |
|-----------|----------------------|--|----------|---------|
| | | | Bottom | Top |
| 1.5 | A-25 | Turbine Oil SAE 10W (Turbine Oil 32) | 6306ZZ | 6204ZZ |
| 2.2 | A-30 | | 6307ZZ | 6205ZZ |
| 3.7 | | | 5307ZZ | 6205ZZ |
| 5.5 | EAN-40 | | 5309ZZ | 6306ZZ |
| 7.5 | | | 5309ZZ | 6306ZZ |
| 11 | EAN-45 | | 6310ZZDR | 6308ZZ |
| 15 | | | 6310ZZDR | 6308ZZ |
| 18.5 | | | 6312ZZDR | 6309ZZ |
| 22 | | | 6312ZZDR | 6309ZZ |
| 30 | A-60 | | 6314ZZDR | 6309ZZ |
| 37 | | | 6315ZZDR | 63010ZZ |
| 45 | | | 6315ZZDR | 63010ZZ |

Mechanical Seal

| No. | Part Name | Material | No.per Set | Type |
|-----|-------------|-----------------|------------|------|
| 1 | Cup Gasket | N.B.Rubber | 1 | A-25 |
| 2 | Mating Ring | Ceramic | 1 | A-30 |
| 3 | Seal Ring | Carbon Graphite | 1 | |
| 4 | Spring | 304 SS | 1 | |
| 5 | Seal Ring | Silicon Carbide | 1 | |
| 6 | Mating Ring | Silicon Carbide | 1 | |
| 7 | Cup Gasket | N.B.Rubber | 1 | |

| No. | Part Name | Material | No.per Set | Type |
|-----|-------------|-----------------|------------|--------|
| 1 | Cup Gasket | N.B.Rubber | 1 | EAN-40 |
| 2 | Mating Ring | Ceramic | 1 | EAN-45 |
| 3 | Seal Ring | Carbon Graphite | 1 | |
| 4 | Spring | 304 SS | 1 | |
| 5 | Seal Ring | Silicon Carbide | 1 | |
| 6 | Mating Ring | Silicon Carbide | 1 | |
| 7 | Cup Gasket | N.B.Rubber | 1 | |

| No. | Part Name | Material | No.per Set | Type |
|-----|---------------|-----------------|------------|------|
| 1 | Cup Gasket | N.B.Rubber | 1 | A-60 |
| 2 | Mating Ring | Ceramic | 1 | |
| 3 | Seal Ring | Carbon Graphite | 1 | |
| 4 | Coll Spring | 304 SS | 1 | |
| 5 | Spring Holder | 304 SS | 1 | |
| 6 | Snap Ring | Spring Steel | 1 | |
| 7 | O-ring | N.B.Rubber | 1 | |
| 8 | Mating Ring | Silicon Carbide | 1 | |
| 9 | Seal Ring | Silicon Carbide | 1 | |
| 10 | Coll Spring | 304 SS | 1 | |
| 11 | Spring Holder | 304 SS | 1 | |

(A) Miniature Thermal Protector

A Miniature Thermal Protector (MTP) is embedded in each winding of the motor as illustrated below, and provides automatic cut off with manual reset. When the temperature of the windings increases and reaches the MTP acting point, an external motor protection circuit (not supplied) is activated.

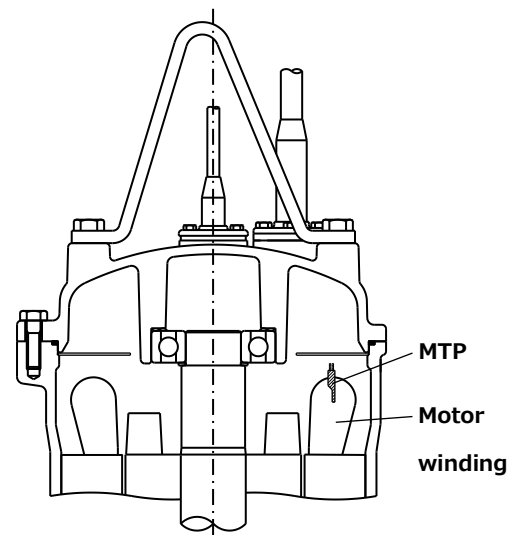
P1 & P2 (wiring in Blue and Brown), in normally closed contact type, once temperature high, the contact will open, and thus circuit not complete leading to trip and pump stop.

1. Applicable model

Motor Model ZDKEEU3 1.5~45kW

2. Specifications

| | |
|------------------------|------------------------------|
| Type of contact | : b (Normally-Closed) |
| Acting temperature | : 150 ± 5 °C |
| Re-setting temperature | : Approx. 100 °C |
| Contact rating | : AC 115V-18A AC 230V-13A |

**(B) Leakage detector**

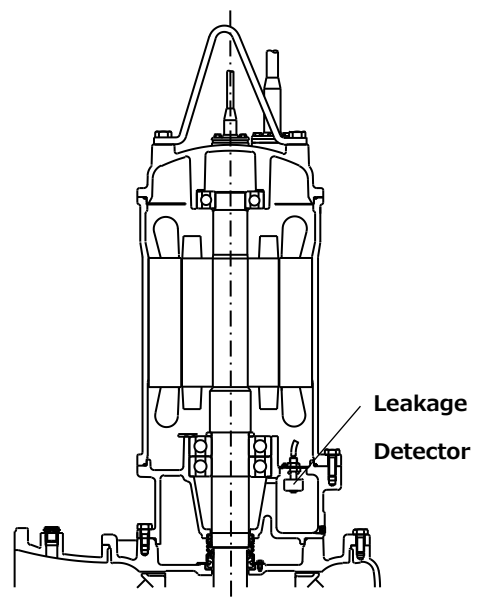
A built-in float type leakage detector with an encapsulated dry reed switch within the stem is fitted to sense leaking of pumping water and/or seal oil into the motor as a result of failure of the mechanical seal.

1. Applicable model

Motor Model ZDKEEU3 1.5~45kW

2. Specifications

| | |
|------------------------|-----------------------|
| Type of contact | : b (Normally-Closed) |
| Breaking capacity | : AC 50VA / DC 50W |
| Max. breaking current | : AC 0.5A / DC 0.5A |
| Max. operating voltage | : AC 300V / DC 300V |

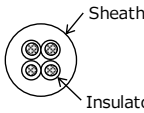


Cable Specifications

50Hz

■ Applicable Motor Models - ZDKEEU3

| Motor | Applicable Motor Models | Starting method | Length of cable | Power Cable Material | Number & size of conductor(s) | |
|-------------|-------------------------|-----------------|-----------------|----------------------|----------------------------------|---|
| | | | | | Power Cable(s) | Protector Cable |
| kW | | | | | | Thermal protector & Leakage detector |
| Three Phase | ZDKEEU3 | DOL | 10 m | H07RN-F | 4c x 1.5mm ² | Standard model 4c x 1mm ² for Thermal protector & Leakage detector |
| | | DOL | 10 m | H07RN-F | 4c x 1.5mm ² | |
| | | DOL | 10 m | H07RN-F | 4c x 1.5mm ² | |
| | | DOL | 10 m | H07RN-F | 4c x 1.5mm ² | |
| | | DOL | 10 m | H07RN-F | 4c x 2.5mm ² | |
| | | Y-Δ | 10 m | H07RN-F | 4c x 4mm ² x 2cables | |
| | | Y-Δ | 10 m | H07RN-F | 4c x 4mm ² x 2cables | |
| | | Y-Δ | 10 m | H07RN-F | 4c x 4mm ² x 2cables | |
| | | Y-Δ | 10 m | H07RN-F | 4c x 6mm ² x 2cables | |
| | | Y-Δ | 10 m | H07RN-F | 4c x 10mm ² x 2cables | |
| | | Y-Δ | 10 m | H07RN-F | 4c x 10mm ² x 2cables | |
| | | Y-Δ | 10 m | H07RN-F | 4c x 16mm ² x 2cables | |

| Applicable to | Cross sectional area of conductors | No. of conductors | Cable Type | Sheath Material | Insulation Material | Sheath Thickness mm | Insulation Thickness mm | Overall Diameter mm | |
|---|------------------------------------|-------------------|------------|---------------------------------|---------------------------|---------------------|-------------------------|---------------------|---|
| Three Phase For Power Cable DOL start motors use 1x4 core, Y-Δ start motors use 2x4 core. | 1.5mm ² | 4 core | H07RN-F | Chlorinated Polyethylene Rubber | Ethylene Propylene Rubber | 1.7 | 0.8 | 11.2 |  |
| | 2.5mm ² | | | | | 1.9 | 0.9 | 13.2 | |
| | 4mm ² | | | | | 2.0 | 1.0 | 15.3 | |
| | 6mm ² | | | | | 2.3 | 1.0 | 18.0 | |
| | 10mm ² | | | | | 3.4 | 1.2 | 23.7 | |
| | 16mm ² | | | | | 3.6 | 1.2 | 28.0 | |
| Three Phase For Protector Cable | 1mm ² | | | | | 1.5 | 0.8 | 10.3 | |

Motor Data for Model DKE

50Hz

■ Applicable Motor Model - ZDKEEU3 50Hz 380V

| Applicable Motor Model | Phase | Poles | Voltage | Hz | Service Factor | VFD |
|------------------------|-------|-------|---------|----|----------------|-----------|
| ZDKEEU3 | 3 | 4 | 380 V | 50 | 1.0 | Available |

| | | | | | | | |
|---------------------|-------------------|------|------|------|-------|------|------|
| Name-Plate Rating | Output | kW | 1.5 | 2.2 | 3.7 | 5.5 | 7.5 |
| | Phase | | 3 | 3 | 3 | 3 | 3 |
| | Pole | | 4 | 4 | 4 | 4 | 4 |
| | Voltage | V | 380 | 380 | 380 | 380 | 380 |
| | Current | A | 3.5 | 5.1 | 8.3 | 11.7 | 16.2 |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 |
| | Insulation Class | | H | H | H | H | H |
| Speed | min ⁻¹ | 1430 | 1445 | 1445 | 1460 | 1455 | |
| Locked Rotor Torque | % | 342 | 133 | 128 | 115 | 115 | |
| Start Current | A | 27.2 | 28.9 | 45.3 | 70.92 | 99.9 | |
| No.starts per hour | | 10 | 10 | 10 | 10 | 10 | |
| Voltage Tolerance | | ±10% | ±10% | ±10% | ±10% | ±10% | |
| Frequency Tolerance | | ±5% | ±5% | ±5% | ±5% | ±5% | |

| | | | | | | | | | |
|---------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|------|
| Name-Plate Rating | Output | kW | 11 | 15 | 18.5 | 22 | 30 | 37 | 45 |
| | Phase | | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | Pole | | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | Voltage | V | 380 | 380 | 380 | 380 | 380 | 380 | 380 |
| | Current | A | 22.8 | 30.7 | 37.1 | 44.3 | 60.8 | 74.5 | 90.0 |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| | Insulation Class | | H | H | H | H | H | H | H |
| Speed | min ⁻¹ | 1460 | 1465 | 1465 | 1470 | 1465 | 1470 | 1475 | |
| Locked Rotor Torque | % | 161 | 182 | 134 | 136 | 183 | 145 | 152 | |
| Start Current | A | 141.9 | 222.7 | 237.4 | 293.1 | 428.0 | 496.5 | 632.8 | |
| No.starts per hour | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| Voltage Tolerance | | ±10% | ±10% | ±10% | ±10% | ±10% | ±10% | ±10% | |
| Frequency Tolerance | | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | |

Motor Data for Model DKE

50Hz

■ Applicable Model – ZDKEEU3 50Hz 400V

| Applicable Motor Model | Phase | Poles | Voltage | Hz | Service Factor | VFD |
|------------------------|-------|-------|---------|----|----------------|-----------|
| ZDKEEU3 | 3 | 4 | 400 V | 50 | 1.0 | Available |

| | | | | | | | |
|---------------------|-------------------|------|------|------|------|-------|------|
| Name-Plate Rating | Output | kW | 1.5 | 2.2 | 3.7 | 5.5 | 7.5 |
| | Phase | | 3 | 3 | 3 | 3 | 3 |
| | Pole | | 4 | 4 | 4 | 4 | 4 |
| | Voltage | V | 400 | 400 | 400 | 400 | 400 |
| | Current | A | 3.4 | 5.0 | 8.1 | 11.5 | 15.8 |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 |
| | Insulation Class | | H | H | H | H | H |
| Speed | min ⁻¹ | 1435 | 1455 | 1445 | 1460 | 1465 | |
| Locked Rotor Torque | % | 385 | 148 | 141 | 127 | 119 | |
| Start Current | A | 28.8 | 30.8 | 48.3 | 75.2 | 106.3 | |
| No.starts per hour | | 10 | 10 | 10 | 10 | 10 | |
| Voltage Tolerance | | ±10% | ±10% | ±10% | ±10% | ±10% | |
| Frequency Tolerance | | ±5% | ±5% | ±5% | ±5% | ±5% | |

| | | | | | | | | | |
|---------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|------|
| Name-Plate Rating | Output | kW | 11 | 15 | 18.5 | 22 | 30 | 37 | 45 |
| | Phase | | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | Pole | | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | Voltage | V | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| | Current | A | 22.3 | 30.1 | 35.6 | 42.6 | 60.4 | 72.5 | 87.6 |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| | Insulation Class | | H | H | H | H | H | H | H |
| Speed | min ⁻¹ | 1465 | 1470 | 1470 | 1470 | 1470 | 1475 | 1475 | |
| Locked Rotor Torque | % | 182 | 206 | 152 | 154 | 209 | 161 | 169 | |
| Start Current | A | 151.0 | 237.2 | 252.8 | 312.2 | 458.5 | 526.1 | 670.2 | |
| No.starts per hour | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | |
| Voltage Tolerance | | ±10% | ±10% | ±10% | ±10% | ±10% | ±10% | ±10% | |
| Frequency Tolerance | | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | |

■ Applicable Model - ZDKEEU3 50Hz 415V

| Applicable Motor Model | Phase | Poles | Voltage | Hz | Service Factor | VFD |
|------------------------|-------|-------|---------|----|----------------|-----------|
| ZDKEEU3 | 3 | 4 | 415 V | 50 | 1.0 | Available |

| | | | | | | | |
|---------------------|------------------|-------------------|------|------|------|------|-------|
| Name-Plate Rating | Output | kW | 1.5 | 2.2 | 3.7 | 5.5 | 7.5 |
| | Phase | | 3 | 3 | 3 | 3 | 3 |
| | Pole | | 4 | 4 | 4 | 4 | 4 |
| | Voltage | V | 415 | 415 | 415 | 415 | 415 |
| | Current | A | 3.4 | 5.0 | 8.1 | 11.4 | 15.8 |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 |
| | Insulation Class | | H | H | H | H | H |
| Speed | | min ⁻¹ | 1445 | 1455 | 1450 | 1460 | 1465 |
| Locked Rotor Torque | | % | 418 | 159 | 152 | 137 | 129 |
| Start Current | | A | 30.0 | 32.2 | 50.5 | 78.7 | 111.4 |
| No.starts per hour | | | 10 | 10 | 10 | 10 | 10 |
| Voltage Tolerance | | | ±10% | ±10% | ±10% | ±10% | ±10% |
| Frequency Tolerance | | | ±5% | ±5% | ±5% | ±5% | ±5% |

| | | | | | | | | | |
|---------------------|------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|
| Name-Plate Rating | Output | kW | 11 | 15 | 18.5 | 22 | 30 | 37 | 45 |
| | Phase | | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | Pole | | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | Voltage | V | 415 | 415 | 415 | 415 | 415 | 415 | 415 |
| | Current | A | 22.2 | 30.3 | 35.6 | 42.6 | 60.1 | 72.2 | 87.0 |
| | Frequency | Hz | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| | Insulation Class | | H | H | H | H | H | H | H |
| Speed | | min ⁻¹ | 1465 | 1475 | 1470 | 1475 | 1475 | 1475 | 1475 |
| Locked Rotor Torque | | % | 197 | 222 | 159 | 166 | 227 | 173 | 182 |
| Start Current | | A | 158.2 | 247.6 | 263.8 | 325.2 | 479.2 | 548.5 | 698.4 |
| No.starts per hour | | | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Voltage Tolerance | | | ±10% | ±10% | ±10% | ±10% | ±10% | ±10% | ±10% |
| Frequency Tolerance | | | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% | ±5% |