# Technical data
## NCB 50-160 B

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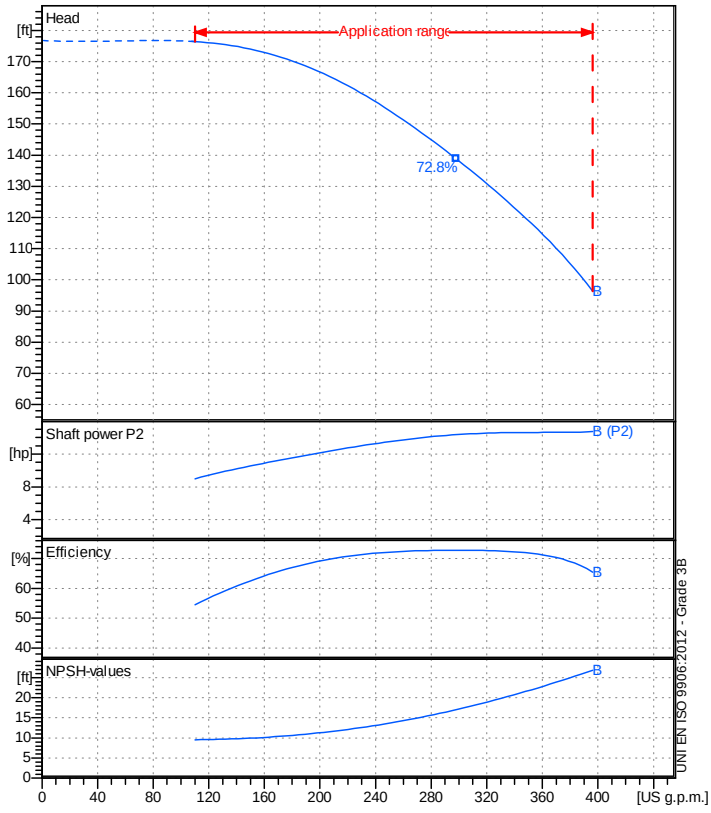
| Receiver | From |
|---|---|
| Company name | |
| Respons. Department | |
| Person in charge | |
| Phone number | |
| Fax no | |
| E-mail address | |




### Operating data specification

| | | |
|---|---|---|
| Nominal flow | US g.p.m. | 0 |
| Nominal head | ft | 0 |
| Static head | ft | 0 |
| NPSH - value of plant | ft | 0 |
| Inlet pressure | psi | 1.42 |
| Fluid | | Water, pure |
| Operating temperature t A | °F | 68 |
| Density at t A | lb/ft³ | 62.32 |
| Kin. viscosity at t A | ft²/s | 1.082E-5 |

### Pump

| | | | |
|---|---|---|---|
| Pump name | | NCB 50-160 B | |
| Size | | 65/50/160 | |
| Design | | | |
| Speed rpm | 3600 | No of stages 1 | |
| Impeller type | | | |
| Flow | Nominal | US g.p.m. | |
| | Max- | US g.p.m. | 396 |
| | Min- | US g.p.m. | 110 |
| Head | Nominal | ft | |
| | Max- | ft | 176 |
| | Min- | ft | 96.4 |
| Head H(Q=0) | | ft | 177 |
| NPSH 3% | | ft | |
| Max. working pressure | | psi | 76.5 |
| Shaft power | | hp | |
| Efficiency | | % | |
| Max absorbed power | | hp | 14.731 |

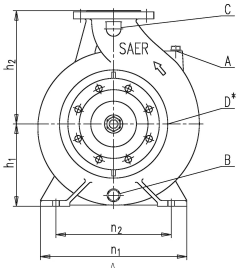
### Materials Pump

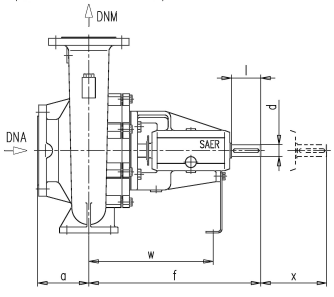
| | |
|---|---|
| Shaft | Stainless steel AISI 431 (1.4057) |
| Impeller | Cast iron EN-GJL-250 |
| Pump body | Cast iron EN-GJL-250 |
| Seal disc | Cast iron EN-GJL-250 |
| Gasket | Natural fiber |
| | |
| | |
| | |
| | |
| Mech. seal EN 12756 | |
| Seal face | Carbon graphite resin impreg. |
| Seat | Alumina Oxide |
| Rubber elements | EPDM Rubber |
| Spring and metal bellows | Stainless steel AISI 316 |

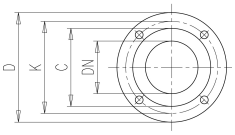
| Motor | Frame size | | |
|---|---|---|---|
| Manufacturer / Type | | | |
| Rated power hp | | Efficiency 4/4 | |
| Electric current A | | Speed rpm | |
| Electric voltage V | | | Hz |
| Starting mode | | | |
| Degree of protection | | Insulation class | |

### Dimensions in inch

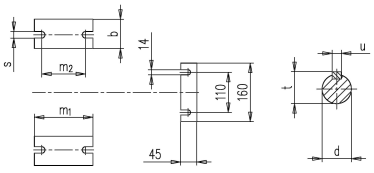
| | | | |
|---|---|---|---|
| a | 3 15/16 | n2 | 8 3/8 |
| A | 3/8" | s | 9/16 |
| B | 3/8" | t | 1 1/16 |
| b | 1 15/16 | u | 5/16 |
| C | 1/4" | w | 10 1/4 |
| d k6 | 15/16 | x | 3 15/16 |
| D | 3/8" | | |
| DNA | DN 65 | | |
| DNM | DN 50 | | |
| f | 14 3/16 | | |
| h1 | 6 5/16 | | |
| h2 | 7 1/16 | | |
| l | 1 15/16 | | |
| m1 | 3 15/16 | | |
| m2 | 2 3/4 | | |
| n1 | 10 7/16 | | |




| | | | |
|---|---|---|---|
| C | 4 | C | 4 13/16 |
| D | 6 1/2 | D | 7 5/16 |
| DN | 1 15/16 | DN | 2 9/16 |
| K | 4 15/16 | K | 5 11/16 |
| n° | 3/16 | n° | 3/16 |
| øn | 3/4 | øn | 3/4 |




Remarks:

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| | | | 2022-08-31 | |

# Performance curves
## NCB 50-160 B

Revision no

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| Receiver | From |
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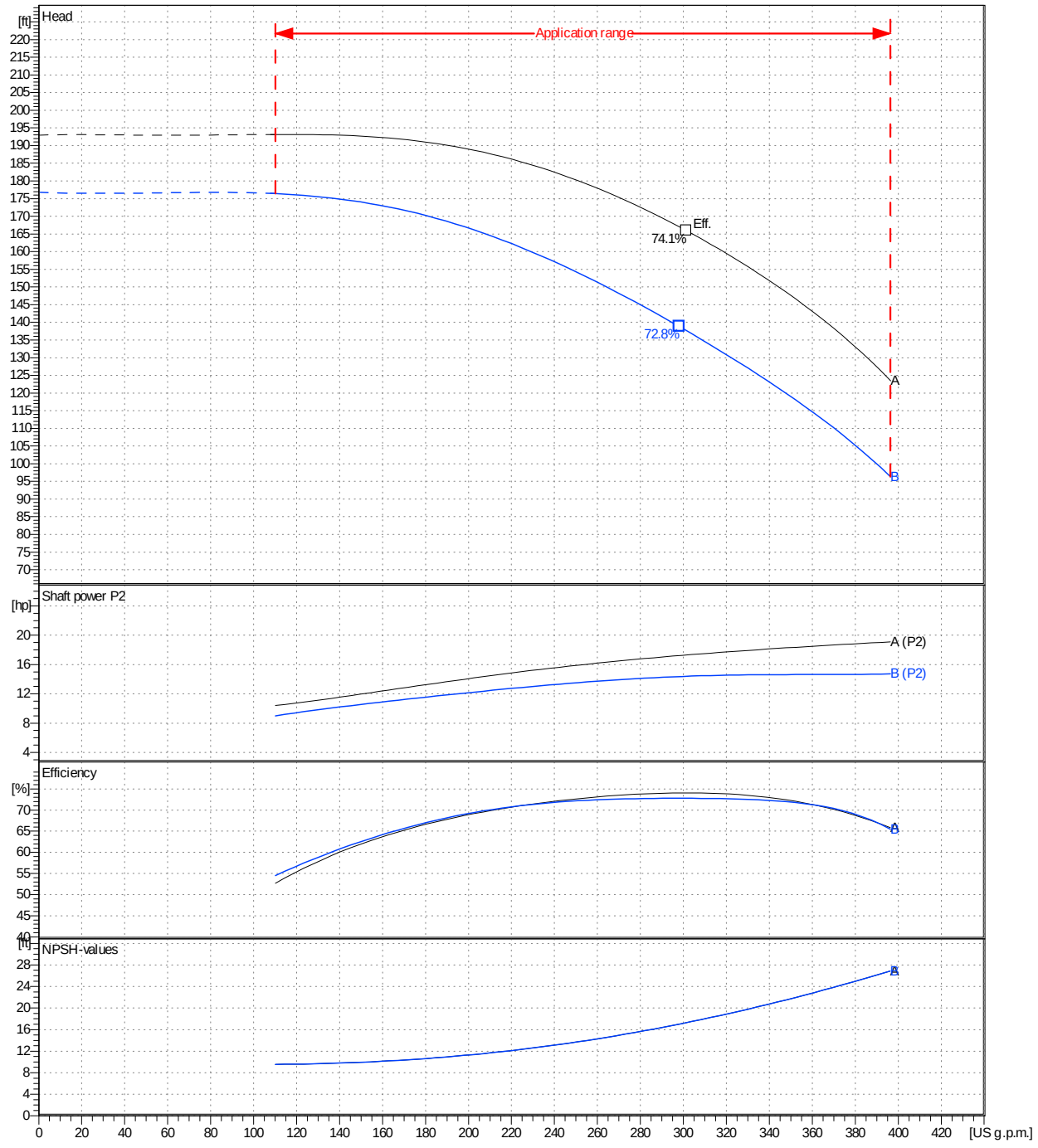
| Operating area | Flow | Head |
|---|---|---|
| Operating data specification | 0 US g.p.m. | 0 ft |
| Pump data | US g.p.m. | ft |

| Impeller type | |
|---|---|
| Impeller construction | Closed |
| Sense of rotation | Clockwise from the drive end |
| Outlet width | DN 50 |
| Speed rpm | 3600 |
| Frequency Hz | |

| | Flow | | | Head | | Shaft power P2 | | |
|---|---|---|---|---|---|---|---|---|
| | Min. | Max. | η Max. | H(Q=0) | η Max. | P2(Q=0) | Max. | η Max. |
| | US g.p.m | US g.p.m | US g.p.m. | ft | ft | hp | hp | hp |
| | 110 | 396 | 298 | 177 | 139 | | 14.7 | 14.4 |

Performance data based to: Water, pure [100%] ; 68°F; 62.3lb/ft³; 1.08E-5ft²/s

UNI EN ISO 9906:2012 - Grade 3B

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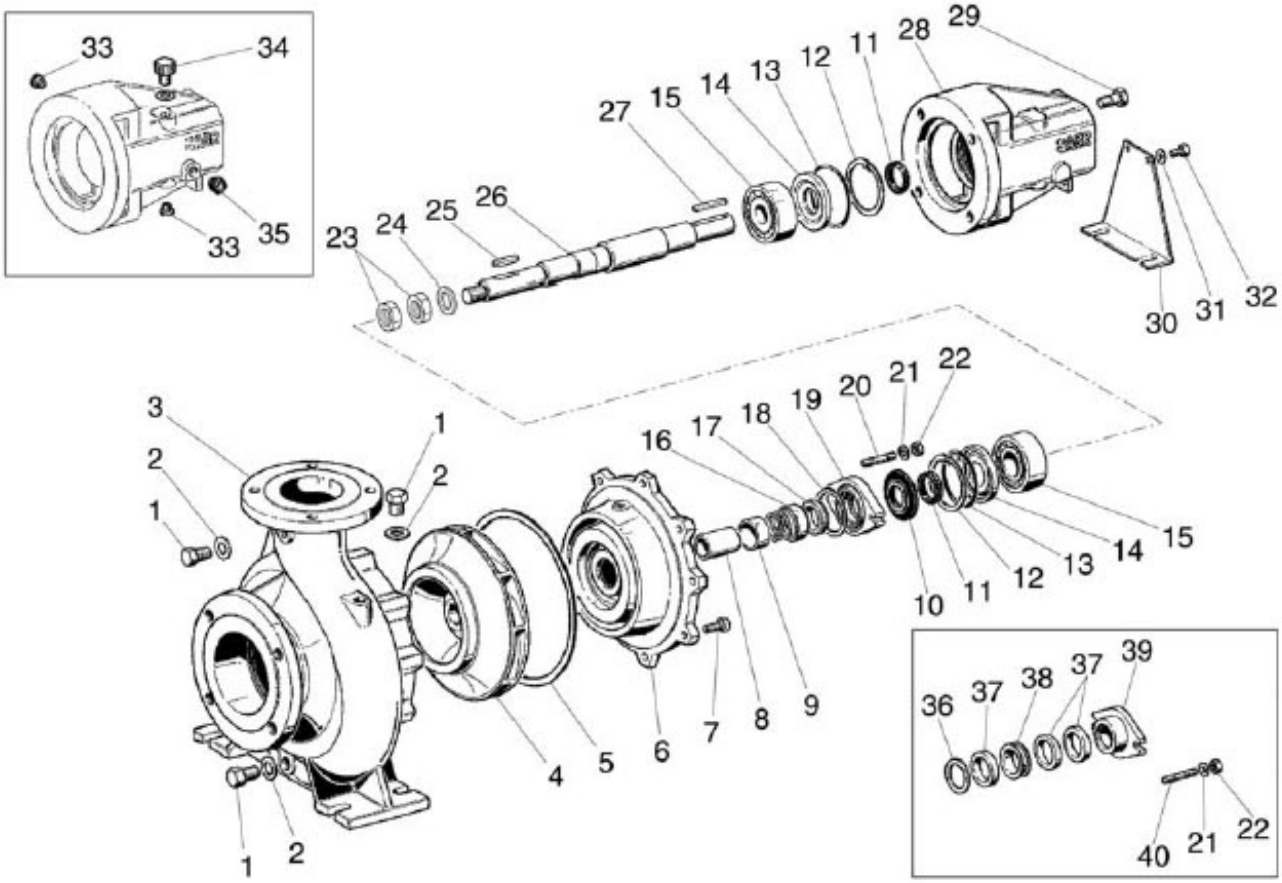


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