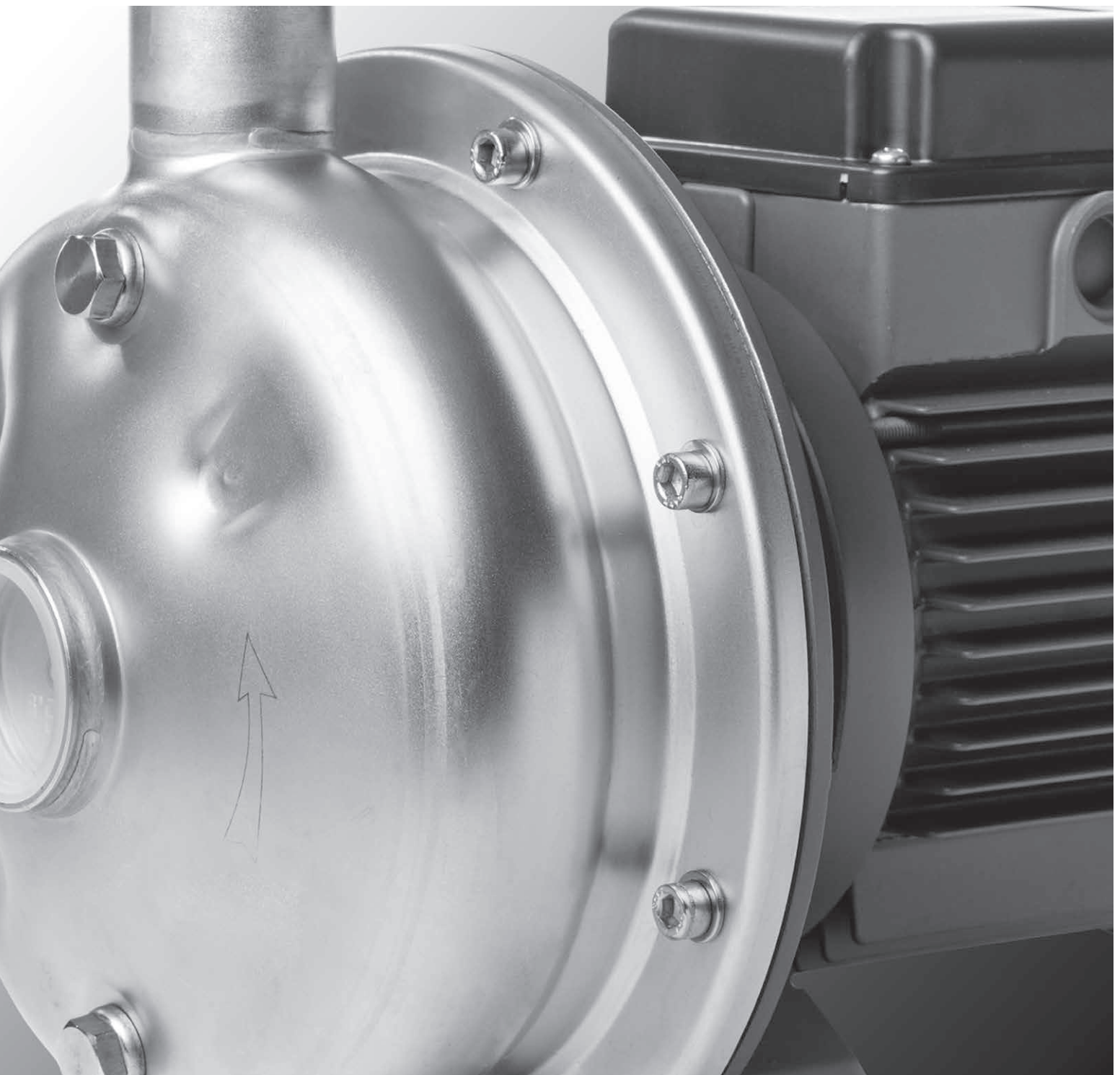


**KI**

STAINLESS-STEEL CENTRIFUGAL PUMP





## TECHNICAL DATA

**Operating range:** flow rate up to 11 m<sup>3</sup>/h, with head up to 40 meters

**Pumped liquid:** clean, free of solids and abrasives, non-viscous, non-aggressive, non-crystallised and chemically neutral, with properties similar to water.

**Liquid temperature range:** from -10°C to +90°C

**Maximum ambient temperature:** +40°C

**Maximum operating pressure:** 8 bar

**Protection class:** IP 55

**Insulation class:** F

**Standard Voltage:**

single-phase 220-230 V 50 Hz

three-phase 230 / 400 V 50Hz

**Installation:** horizontal or vertical position, provided that the motor is always above the pump.

**Special executions on requests:**

**V version:** Alox Ceramic/Carbon/FKM: for oily liquids (up to 110°C) and propylene glycol

**VS version:** SiC/SiC/FKM: for oily liquids (up to 110°C) and fluids with abrasive particles

**E version:** SiC/Carbon/EPDM: high temperature water up to 120 °C and ethylene glycol

## APPLICATIONS

Single-impeller stainless steel end suction centrifugal pump, suitable for thermal waters, industrial washing, civil and industrial pressure boosting (cold, hot, refrigerated liquid).

## CONSTRUCTION FEATURES OF THE PUMP

The Pump body and impeller in stainless steel AISI 304 make the pump more resistant to the corrosion, reliable and compact.

The support in aluminium and the mechanical seal in Carbon Ceramic and NBR complete the hydraulic part of the pump.

The pump is MEI comply.

## CONSTRUCTION FEATURES OF THE MOTOR

Closed asynchronous type, external ventilation cooling.

Rotor running on ball bearings, oversized to ensure low noise and durability.

Standard built-in thermo-amperometric protection. Capacitor permanently fitted on single phase versions.

For the protection of the three-phase motor, we recommend the use of remote overload cut-outs, in compliance with current local regulations.

Construction according to CEI 2-3.

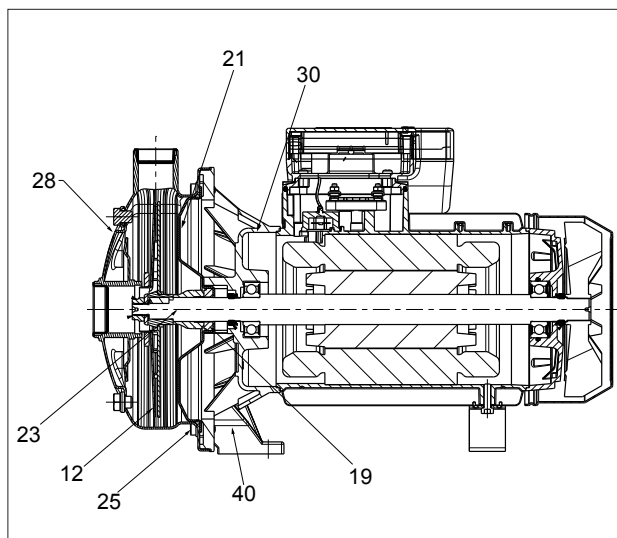
Three-phase IE2 motors as standard.

## MATERIALS

| N° | PART                 | MATERIALS                  |
|----|----------------------|----------------------------|
| 28 | PUMP BODY            | STAINLESS STEEL AISI 304   |
| 12 | IMPELLER             | STAINLESS STEEL AISI 304   |
| 19 | MECHANICAL SEAL (*)  | CARBON/CERAMIC/NBR/AISI316 |
| 21 | MECHANICAL SEAL DISC | STAINLESS STEEL AISI 304   |
| 25 | O-RING               | NBR                        |
| 23 | PUMP SHAFT           | STAINLESS STEEL AISI 303   |
| 30 | MOTOR CASE           | ALUMINIUM                  |
| 40 | MOTOR SUPPORT        | ALUMINIUM                  |

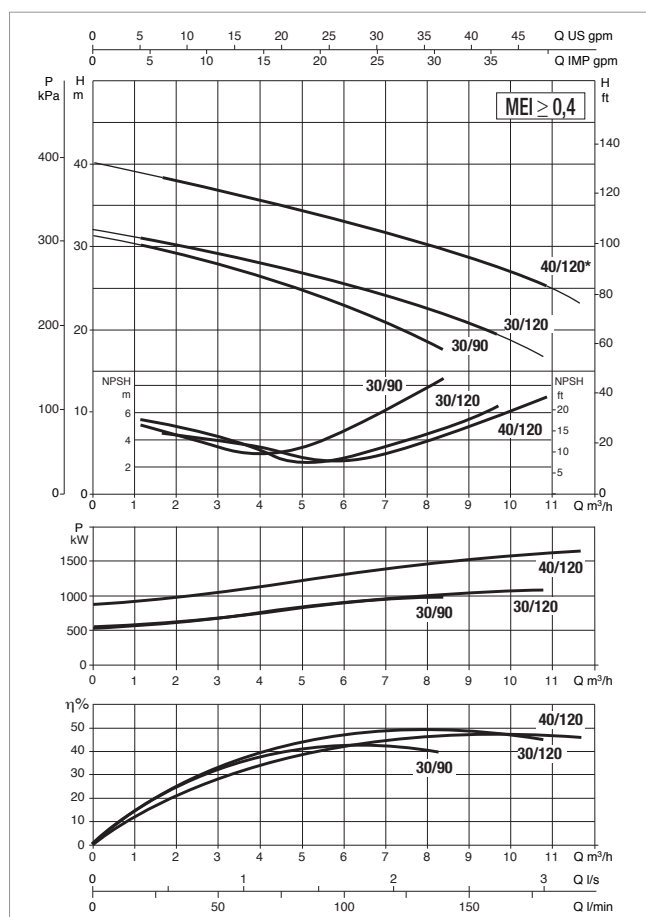
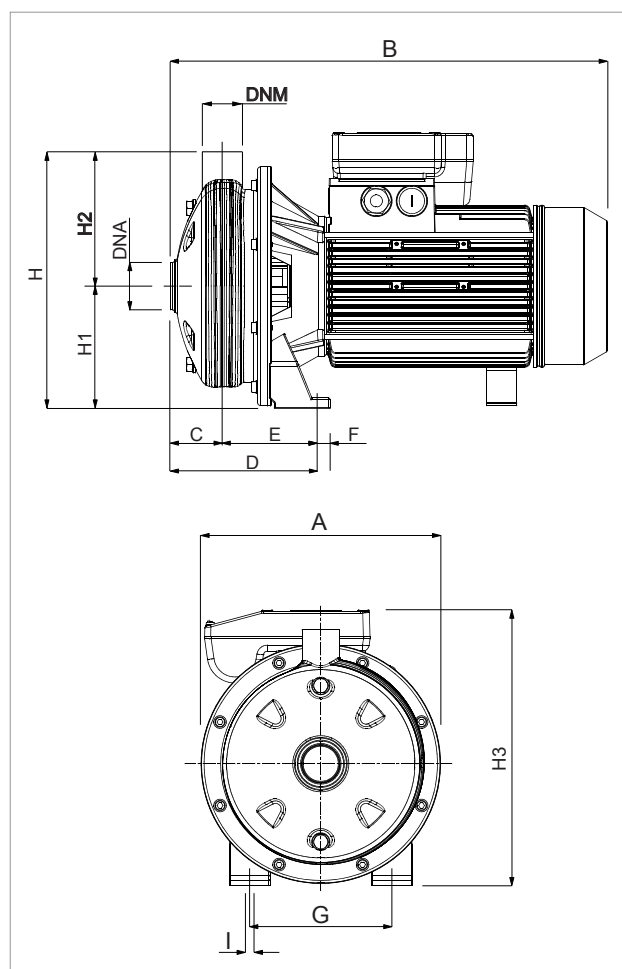
(\*) Special mechanical seal:

Alox Ceramic/Carbon/FKM - SiC/SiC/FKM - SiC/Carbon/EPDM



# KI - STAINLESS-STEEL CENTRIFUGAL PUMP

Liquid temperature range: from -10°C to +90°C - Maximum operating pressure: 8 bar



The performance curves are based on kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

| MODEL         | l/min | 0    | 20   | 50   | 80   | 90   | 110  | 130  | 140  | 160  | 180  | 195  |
|---------------|-------|------|------|------|------|------|------|------|------|------|------|------|
|               | m³/h  | 0    | 1,2  | 3    | 4,8  | 5,4  | 6,6  | 7,8  | 8,4  | 9,6  | 10,8 | 11,7 |
| KI 30/90 M    | H (m) | 31,4 | 30,1 | 27,8 | 25,1 | 24,0 | 21,7 | 19,0 | 17,5 |      |      |      |
| KI 30/120 M   |       | 32,0 | 30,7 | 28,9 | 27,0 | 26,3 | 24,8 | 22,8 | 21,6 | 19,2 | 16,5 |      |
| KI 30/120 T   |       | 32,0 | 30,7 | 28,9 | 27,0 | 26,3 | 24,8 | 22,8 | 21,6 | 19,2 | 16,5 |      |
| KI 40/120 M * |       | 40,3 | 39,1 | 37,2 | 35,2 | 34,5 | 33,0 | 31,3 | 30,4 | 28,5 | 26,4 | 23,0 |

\* Model not MEI comply, only for Extra UE market.

| MODEL         | POWER INPUT<br>50 Hz | P1 max<br>kW | POWER P2 |      | In<br>A | CAPACITOR |     | MEI   |
|---------------|----------------------|--------------|----------|------|---------|-----------|-----|-------|
|               |                      |              | kW       | Hp   |         | uF        | Vc  |       |
| KI 30/90 M    | 1x220-230 V          | 1,4          | 0,75     | 1    | 6,5     | 25        | 450 | ≥ 0,4 |
| KI 30/120 M   | 1x220-230 V          | 1,55         | 1        | 1,36 | 7       | 25        | 450 | ≥ 0,4 |
| KI 30/120 T   | 3x230 / 400 V        | 1,45         | 1        | 1,36 | 5 / 2,9 | -         | -   | ≥ 0,4 |
| KI 40/120 M * | 1x220-230 V          | 2,2          | 1,5      | 2    | 9,7     | 40        | 450 | -     |

\* Model not MEI comply, only for Extra UE market.

| MODEL         | A   | B   | C  | D     | E    | F  | G   | H   | H1  | H2  | H3  | ø I | DNA     | DNM  | PACKING DIMENSIONS |     |     | GROSS WEIGHT<br>Kg | PALLET<br>Q.TY |
|---------------|-----|-----|----|-------|------|----|-----|-----|-----|-----|-----|-----|---------|------|--------------------|-----|-----|--------------------|----------------|
|               |     |     |    |       |      |    |     |     |     |     |     |     |         |      | L/A                | L/B | H   |                    |                |
| KI 30/90 M    | 214 | 337 | 53 | 143,5 | 90,5 | 13 | 130 | 232 | 108 | 124 | -   | 9   | 1"1/4 G | 1" G | 400                | 240 | 275 | 13,4               | 27             |
| KI 30/120 M   | 214 | 337 | 53 | 143,5 | 90,5 | 13 | 130 | 232 | 108 | 124 | -   | 9   | 1"1/4 G | 1" G | 400                | 240 | 275 | 13,4               | 27             |
| KI 30/120 T   | 214 | 354 | 53 | 143,5 | 90,5 | 13 | 130 | 232 | 108 | 124 | -   | 9   | 1"1/4 G | 1" G | 400                | 240 | 275 | 13,8               | 27             |
| KI 40/120 M * | 236 | 432 | 53 | 146,5 | 93,5 | 13 | 140 | 252 | 120 | 132 | 272 | 9   | 1"1/4 G | 1" G | 500                | 300 | 315 | 19,6               | 18             |

\* Model not MEI comply, only for Extra UE market.

# DNA®

## PUMPS SELECTOR



# On-line product selection



### DAB PUMPS LTD.

Unit 4 and 5, Stortford Hall Industrial Park,  
Dunmow Road,  
Bishops Stortford,  
Herts  
CM23 5GZ - UK  
salesuk@dwgroup.com  
Tel. +44 1279 652 776  
Fax +44 1279 657 727



### DAB PUMPS B.V.

Brusselstraat 150  
B-1702 Groot-Bijgaarden - Belgium  
info.belgium@dwgroup.com  
Tel. +32 2 4668353  
Fax +32 2 4669218



### DAB PUMPS B.V.

Albert Einsteinweg, 4  
5151 DL Drunen - Nederland  
info.netherlands@dwgroup.com  
Tel. +31 416 387280  
Fax +31 416 387299



### DAB PUMPEN DEUTSCHLAND GmbH

Tackweg 11  
D - 47918 Tönisvorst - Germany  
info.germany@dwgroup.com  
Tel. +49 2151 82136-0  
Fax +49 2151 82136-36



### DAB PUMPS IBERICA S.L.

Avenida de Castilla nr.1 Local 14  
28830 - San Fernando De Henares - Madrid  
Spain  
info.spain@dwgroup.com  
Tel. +34 91 6569545  
Fax: +34 91 6569676



### DAB PRODUCTION HUNGARY KFT.

H-8800  
Nagykanizsa, Buda Ernő u.5  
Hungary  
Tel. +36 93501700



### DAB PUMPS POLAND Sp. z o.o.

Mokotów Marynarska  
ul. Postępu 15C  
02-676 Warszawa - Poland  
polska@dabpumps.com.pl  
Tel. +48 223 816 085



### DAB UKRAINE Representative Office

Regus Horizon Park  
4 M. Hrinchenka St, suit 147  
03680 Kiev - Ukraine  
Tel. +38 044 391 59 43



### DAB PUMPS INC.

3226 Benchmark Drive  
Ladson, SC 29456 - USA  
info.usa@dwgroup.com  
Tel. 1-843-824-6332  
Toll Free 1-866-896-4DAB (4322)  
Fax 1-843-797-3366



### DWT SOUTH AFRICA

Podium at Menlyn,  
3rd Floor, Unit 3001b, 43 Ingersol Road,  
C/O Lois and Atterbury street,  
Menlyn, Pretoria, 0181 - South-Africa  
info.sa@dwgroup.com  
Tel. +27 12 361 3997  
Fax +27 12 361 3137



### DAB PUMPS CHINA

No.40 Kaituo Road, Qingdao Economic & Technological  
Development Zone  
Qingdao City, Shandong Province - China  
PC: 266500  
info.china@dwgroup.com  
Tel. +8653286812030-6270  
Fax +8653286812210



### DAB PUMPS DE MÉXICO, S.A. DE C.V.

Av Gral Álvaro Obregón 270, oficina 355  
Hipódromo, Cuauhtémoc 06100  
México, D.F.  
Tel. +52 55 6719 0493



### OOO DAB PUMPS

Novgorodskaya str. 1, block G  
office 308, 127247, Moscow - Russia  
info.russia@dwgroup.com  
Tel. +7 495 122 0035  
Fax +7 495 122 0036