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GRUNDFOS DATA BOOKLET

## CRN5-36 A-FGJ-G-E-HQQE 3x400D 50HZ Grundfos pump 96514222



Thank you for your interest in our products. Please contact us for more information, or visit our website
https://www.lenntech.com/grundfos/CRN05/96514222/CRN-5-36-A-FGJ-G-E-HQQE.html
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The shaft seal is screwed into the pump head.
The chambers and impellers are made of stainless-steel sheet. The chambers are provided with a PTFE neck ring offering improved sealing and high efficiency. The impellers have smooth surfaces, and the shape of the blades ensure a high efficiency.

The pump has a stainless-steel base mounted on a seperate base plate. This base and base plate are kept in position by the tension of the staybolts which hold the pump together. The outlet side of the base has a combined drain plug and bypass valve. The pump is secured to the foundation by four bolts through the base plate. The flanges and base are cast in one piece and prepared for connection by means of DIN, ANSI or JIS.

## Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. The motor is flange-mounted with free-hole flange (FF).
Motor-mounting designation in accordance with IEC 60034-7: IM B 5 (Code I) / IM 3001 (Code II).
Electrical tolerances comply with IEC 60034.
The motor efficiency is classified as IE3 in accordance with IEC 60034-30-1.
The motor has thermistors (PTC sensors) in the windings in accordance with DIN 44081/DIN 44082.
The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.
Thermal switches must be connected to an external control circuit in a way which ensures that the automatic reset cannot cause accidents. The motors must be connected to a motor-protective circuit breaker according to local regulations.
The motor can be connected to a variable speed drive for adjustment of pump performance to any duty point. Grundfos CUE offers a range of variable speed drives. Please find more information in Grundfos Product Center.

## Technical data

## Controls:

Frequency converter: NONE

## Liquid:

$\begin{array}{ll}\text { Pumped liquid: } & \text { Water } \\ \text { Liquid temperature range: } & -20 . .120^{\circ} \mathrm{C}\end{array}$
Liquid temperature during operation: $20^{\circ} \mathrm{C}$
Density:
$998.2 \mathrm{~kg} / \mathrm{m}^{3}$

## Technical:

Rated flow:
$5.8 \mathrm{~m}^{3} / \mathrm{h}$
Rated head:
189.2 m

Pump orientation:
Vertical
Shaft seal arrangement: Single
Code for shaft seal:
Approvals on nameplate:
Curve tolerance:
HQQE
CE, EAC,ACS

## Materials:

Base: Stainless steel
EN 1.4408
AISI 316
Impeller:
Stainless steel
EN 1.4401
AISI 316
Bearing: SIC

| Position | Qty. | Description |
| :---: | :---: | :---: |
|  |  | Installation: <br> Maximum ambient temperature: $60^{\circ} \mathrm{C}$ <br> Maximum operating pressure: 25 bar <br> Max pressure at stated temp: $25 \mathrm{bar} / 120^{\circ} \mathrm{C}$ 25 bar / $-20^{\circ} \mathrm{C}$ <br> Type of connection: DIN / ANSI / JIS <br> Size of inlet connection: <br> DN 25/32 <br> 1 1/4 inch <br> Size of outlet connection: DN 25/32 <br> $11 / 4$ inch <br> Pressure rating for pipe connection: PN 25 <br> Flange rating inlet: $\quad 300 \mathrm{lb}$ <br> Flange size for motor: FF265 <br> Others: <br> Minimum efficiency index, MEI $\geq 0.57$ <br> Net weight: $\quad 82 \mathrm{~kg}$ <br> Gross weight: $\quad 107 \mathrm{~kg}$ <br> Shipping volume: $\quad 0.429 \mathrm{~m}^{3}$ |

## On request CRN 5-36 A-FGJ -A-E-HQQE 50 Hz




| Description | Value |
| :--- | :--- |
| Motor efficiency at $1 / 2$ load: | $89.6 \%$ |
| Number of poles: | 2 |
| Enclosure class (IEC 34-5): | 55 Dust/J etting |
| Insulation class (IEC 85): | F |
| Motor protec: | PTC |
| Motor No: | 85 U 17417 |
| Controls: |  |
| Frequency converter: | NONE |
| Others: |  |
| Minimum efficiency index, MEI $\geq$ | 0.57 |
| Net weight: | 82 kg |
| Gross weight: | 107 kg |
| Shipping volume: | $0.429 \mathrm{~m}^{3}$ |
|  |  |

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## Exploded view



Sectional drawing (TM058200 for TPE2,TPE3)


Exploded view ( TM057026 for MGE model H/l )


Parts list CRN 5-36, Product No. On request Valid from 1.1.2011 (1152)


| Pos | Description | Annotation | Données de classification | Référence | Quantité | Unité |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - 50a | Guide vane |  |  |  | 1 |  |
|  | Guide vane |  |  |  | 6 |  |
|  | Plate |  |  |  | 1 |  |
| 50b | Top plate |  |  |  | 1 |  |
| 51 | Shaft, spline, cpl. |  |  |  | 1 |  |
| 64a | Spacing pipe |  | Length (mm): 13.00 |  | 7 |  |
| 64c | Clamp, splined |  | Intemal diameter: 8,5 |  | 1 |  |
| Outer diameter: 15 |  |  |  |  |  |  |
| 66 | Wedge lock washer |  |  |  | 1 |  |
| 69 | Spacing pipe |  | Length (mm): 26.0 |  | 28 |  |
| 69 | Spacing pipe |  | Length (mm): 2.00 |  | 1 |  |
| - 105 | Shaft seal |  | Material type: HQQE |  | 1 | pcs |
|  | O-ring |  |  |  | 1 |  |
|  | O-ring |  |  |  | 1 |  |
|  | Seal driver, upper |  |  |  | 1 |  |
|  | Seal driver, lower |  |  |  | 1 |  |
|  | Spacer ring |  |  |  | 1 |  |
|  | Pipe |  |  |  | 1 |  |
|  | Plug |  |  |  | 1 |  |
|  | Plug |  |  |  | 1 |  |
|  | Compression spring |  |  |  | 1 |  |
|  | Socket set screw |  |  |  | 1 |  |
| 102 | O-ring |  | Diameter: 22,00 |  | 1 |  |
| Material type: EPDM |  |  |  |  |  |  |
| Thickness: 2,75 |  |  |  |  |  |  |
| 103 | Seal ring, stationary |  |  |  | 1 |  |
| 105 | Seal ring, rotating |  |  |  | 1 |  |
| 107 | O-ring |  |  |  | 1 |  |
| 113 | Driver |  |  |  | 1 |  |

Disclaimer: The information about the Grundfos pump in this document may be outdated.
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