
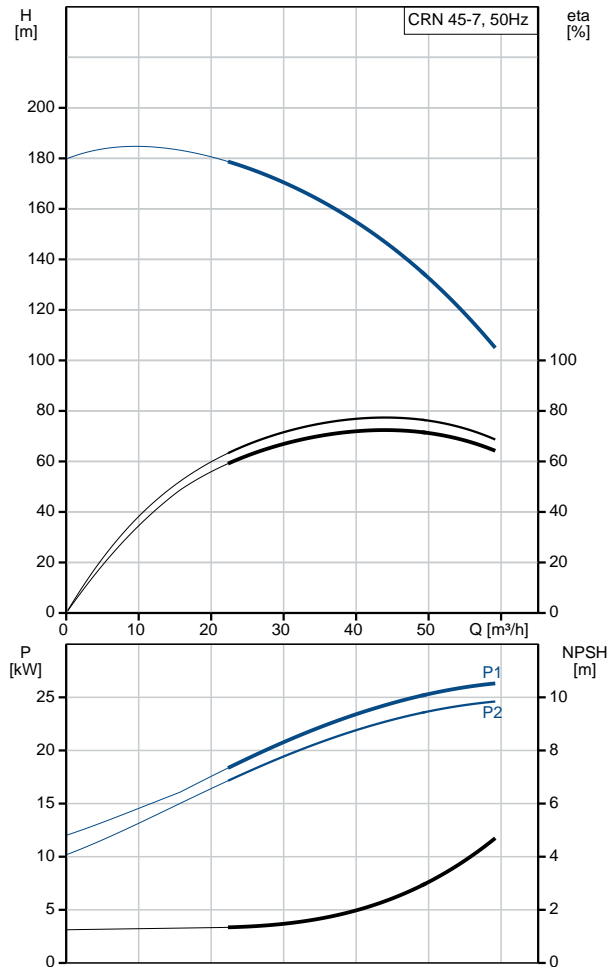


| Position | Qty. | Description  |
|----------|------|--|
|          | 1    | <p><b>CRN 45-7 A-F-GI-E-HQQE</b></p>  <p>Product No.: <a href="#">96536460</a></p> <p>Vertical, multistage centrifugal pump with suction and discharge ports on same the level (in-line) enabling installation in a horizontal one-pipe system. Pump materials in contact with the liquid are in high-grade stainless steel. A cartridge shaft seal ensures high reliability, safe handling and easy service and access. Power transmission is via a rigid split coupling. Pipework connection is via DIN flanges.</p> <p>The pump is fitted with a 3-phase, fan-cooled asynchronous motor.</p> <p><b>Liquid:</b><br/> Pumped liquid: Water<br/> Liquid temperature range: -40 .. 120 °C<br/> Liquid temperature during operation: 20 °C<br/> Density: 998.2 kg/m<sup>3</sup></p> <p><b>Technical:</b><br/> Rated flow: 45 m<sup>3</sup>/h<br/> Rated head: 143.9 m<br/> Pump orientation: Vertical<br/> Shaft seal arrangement: Single<br/> Code for shaft seal: HQQE<br/> Approvals on nameplate: CE, EAC,ACS<br/> Curve tolerance: ISO9906:2012 3B</p> <p><b>Materials:</b><br/> Base: Stainless steel<br/> EN 1.4408<br/> AISI 316<br/> Impeller: Stainless steel<br/> EN 1.4401<br/> AISI 316<br/> Bearing: SIC<br/> Support bearing: Graflon</p> <p><b>Installation:</b><br/> Maximum ambient temperature: 55 °C<br/> Maximum operating pressure: 30 bar<br/> Max pressure at stated temp: 30 bar / 120 °C<br/> 30 bar / -40 °C<br/> Type of connection: DIN<br/> Size of inlet connection: DN 80<br/> Size of outlet connection: DN 80<br/> Pressure rating for pipe connection: PN 40<br/> Flange size for motor: FF350</p> <p><b>Electrical data:</b><br/> Motor standard: IEC</p> |

| Position | Qty. | Description   |
|----------|------|---|
|          |      | <p>Motor type: SIEMENS</p> <p>IE Efficiency class: IE3</p> <p>Rated power - P2: 30 kW</p> <p>Power (P2) required by pump: 30 kW</p> <p>Mains frequency: 50 Hz</p> <p>Rated voltage: 3 x 380-420D/660-725Y V</p> <p>Rated current: 56,0-51,0/32,0-29,5 A</p> <p>Starting current: 660-660 %</p> <p>Cos phi - power factor: 0.86</p> <p>Rated speed: 2955 rpm</p> <p>Efficiency: IE3 93,3%</p> <p>Motor efficiency at full load: 93.3-93.3 %</p> <p>Motor efficiency at 3/4 load: 93.6-93.6 %</p> <p>Motor efficiency at 1/2 load: 93.4-93.4 %</p> <p>Number of poles: 2</p> <p>Enclosure class (IEC 34-5): 55 Dust/Jetting</p> <p>Insulation class (IEC 85): F</p> <p><b>Controls:</b></p> <p>Frequency converter: NONE</p> <p><b>Others:</b></p> <p>Minimum efficiency index, MEI : 0.7</p> <p>Net weight: 338 kg</p> <p>Gross weight: 377 kg</p> <p>Shipping volume: 0.805 m<sup>3</sup></p> <p>Country of origin: GB</p> <p>Custom tariff no.: 84137075</p> |

| Description                          | Value                                    |
|--------------------------------------|--|
| <b>General information:</b>          |  |
| Product name:                        | CRN 45-7 A-F-GI-E-HQQE                   |
| Product No:                          | <a href="#">96536460</a>                 |
| EAN number:                          | 5700397572108                            |
| <b>Technical:</b>                    |  |
| Rated flow:                          | 45 m <sup>3</sup> /h                     |
| Rated head:                          | 143.9 m                                  |
| Stages:                              | 7  |
| Impellers:                           | 7  |
| Low NPSH:                            | N  |
| Pump orientation:                    | Vertical                                 |
| Shaft seal arrangement:              | Single                                   |
| Code for shaft seal:                 | HQQE                                     |
| Approvals on nameplate:              | CE, EAC, ACS                             |
| Curve tolerance:                     | ISO9906:2012 3B                          |
| Pump version:                        | A  |
| Model:                               | B  |
| <b>Materials:</b>                    |  |
| Base:                                | Stainless steel<br>EN 1.4408<br>AISI 316 |
| Impeller:                            | Stainless steel<br>EN 1.4401<br>AISI 316 |
| Material code:                       | GI                                       |
| Code for rubber:                     | E  |
| Bearing:                             | SIC                                      |
| Support bearing:                     | Grafflon                                 |
| <b>Installation:</b>                 |  |
| Maximum ambient temperature:         | 55 °C                                    |
| Maximum operating pressure:          | 30 bar                                   |
| Max pressure at stated temp:         | 30 bar / 120 °C<br>30 bar / -40 °C       |
| Type of connection:                  | DIN                                      |
| Connect code:                        | F  |
| Size of inlet connection:            | DN 80                                    |
| Size of outlet connection:           | DN 80                                    |
| Pressure rating for pipe connection: | PN 40                                    |
| Flange size for motor:               | FF350                                    |
| <b>Liquid:</b>                       |  |
| Pumped liquid:                       | Water                                    |
| Liquid temperature range:            | -40 .. 120 °C                            |
| Liquid temperature during operation: | 20 °C                                    |
| Density:                             | 998.2 kg/m <sup>3</sup>                  |
| <b>Electrical data:</b>              |  |
| Motor standard:                      | IEC                                      |
| Motor type:                          | SIEMENS                                  |
| IE Efficiency class:                 | IE3                                      |
| Rated power - P2:                    | 30 kW                                    |
| Power (P2) required by pump:         | 30 kW                                    |
| Mains frequency:                     | 50 Hz                                    |
| Rated voltage:                       | 3 x 380-420D/660-725Y V                  |
| Rated current:                       | 56,0-51,0/32,0-29,5 A                    |
| Starting current:                    | 660-660 %                                |
| Cos phi - power factor:              | 0.86                                     |
| Rated speed:                         | 2955 rpm                                 |
| Efficiency:                          | IE3 93,3%                                |
| Motor efficiency at full load:       | 93.3-93.3 %                              |





Company name:

Created by:

Phone:

Date:

03/07/2018

| Description                     | Value                |
|---------------------------------|----------------------|
| Motor efficiency at 3/4 load:   | 93.6-93.6 %          |
| Motor efficiency at 1/2 load:   | 93.4-93.4 %          |
| Number of poles:                | 2                    |
| Enclosure class (IEC 34-5):     | 55 Dust/Jetting      |
| Insulation class (IEC 85):      | F                    |
| Motor protec:                   | PTC                  |
| Motor No:                       | 81U15332             |
| <b>Controls:</b>                |                      |
| Frequency converter:            | NONE                 |
| <b>Others:</b>                  |                      |
| Minimum efficiency index, MEI : | 0.7                  |
| Net weight:                     | 338 kg               |
| Gross weight:                   | 377 kg               |
| Shipping volume:                | 0.805 m <sup>3</sup> |
| Sales region:                   | Great Britain        |
| Country of origin:              | GB                   |
| Custom tariff no.:              | 84137075             |