



Company name:

Created by:

Phone:

Date:

07/05/2019

| Qty. | Description   |
|------|---|
| 1    | <p><b>CRI 20-8A-FGJ-A-V-HQQV</b></p>  <p>Product No.: <a href="#">96500614</a></p> <p>Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). Pump materials in contact with the liquid are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is via combined DIN-ANSI-JIS flanges.</p> <p>The pump is fitted with a 3-phase, fan-cooled asynchronous motor.</p> <p><b>Controls:</b><br/>Frequency converter: NONE</p> <p><b>Liquid:</b><br/>Pumped liquid: Water<br/>Liquid temperature range: -20 .. 90 °C<br/>Selected liquid temperature: 20 °C<br/>Density at selected liquid temperature: 998.2 kg/m³</p> <p><b>Technical:</b><br/>Pump speed on which pump data are based: 2924 rpm<br/>Rated flow: 21 m³/h<br/>Rated head: 95.1 m<br/>Pump orientation: Vertical<br/>Shaft seal arrangement: Single<br/>Code for shaft seal: HQQV<br/>Approvals on nameplate: CE, EAC<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 1.4301<br/>AISI 304<br/>Bearing: SIC</p> <p><b>Installation:</b><br/>Maximum ambient temperature: 60 °C<br/>Maximum operating pressure: 16 bar<br/>Max pressure at stated temp: 16 bar / 90 °C<br/>16 bar / -20 °C<br/>Type of connection: DIN / ANSI / JIS<br/>Size of inlet connection: DN 50<br/>2 inch<br/>Size of outlet connection: DN 50<br/>2 inch<br/>Pressure rating for pipe connection: PN 25<br/>Flange rating inlet: 300 lb</p> |



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| Qty.                             | Description                  |
|----------------------------------|------------------------------|
|                                  | Flange size for motor: FF300 |
| <b>Electrical data:</b>          |                              |
| Motor standard:                  | IEC                          |
| Motor type:                      | 160MB                        |
| IE Efficiency class:             | IE3                          |
| Rated power - P2:                | 11 kW                        |
| Power (P2) required by pump:     | 11 kW                        |
| Mains frequency:                 | 50 Hz                        |
| Rated voltage:                   | 3 x 380-415D/660-690Y V      |
| Rated current:                   | 20,8-19,8/12,0-11,8 A        |
| Starting current:                | 660-780 %                    |
| Cos phi - power factor:          | 0.88-0.84                    |
| Rated speed:                     | 2940-2950 rpm                |
| Efficiency:                      | IE3 91,2%                    |
| Motor efficiency at full load:   | 91.2-91.2 %                  |
| Motor efficiency at 3/4 load:    | 91.8 %                       |
| Motor efficiency at 1/2 load:    | 91.3 %                       |
| Number of poles:                 | 2                            |
| Enclosure class (IEC 34-5):      | 55 Dust/Jetting              |
| Insulation class (IEC 85):       | F                            |
| Motor No:                        | 85U17524                     |
| <b>Others:</b>                   |                              |
| Minimum efficiency index, MEI %: | 0.70                         |
| Net weight:                      | 142 kg                       |
| Gross weight:                    | 171 kg                       |
| Shipping volume:                 | 0.488 m <sup>3</sup>         |
| Country of origin:               | GB                           |
| Custom tariff no.:               | 84137075                     |



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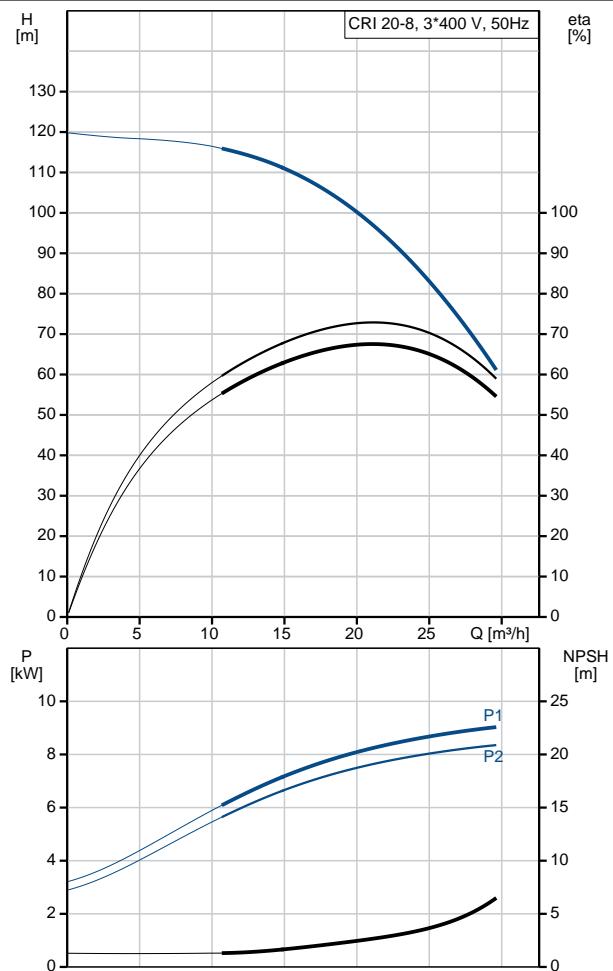
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| Description                              | Value                             |
|--|-----------------------------------|
| <b>General information:</b>              |                                   |
| Product name:                            | CRI                               |
|  | 20-8A-FGJ-A-V-HQQV                |
| Product No:                              | 96500614                          |
| EAN number:                              | 5700396205342                     |
| <b>Technical:</b>                        |                                   |
| Pump speed on which pump data are based: | 2924 rpm                          |
| Rated flow:                              | 21 m <sup>3</sup> /h              |
| Rated head:                              | 95.1 m                            |
| Head max:                                | 118 m                             |
| Stages:                                  | 8                                 |
| Impellers:                               | 8                                 |
| Number of reduced-diameter impellers:    | 0                                 |
| Low NPSH:                                | N                                 |
| Pump orientation:                        | Vertical                          |
| Shaft seal arrangement:                  | Single                            |
| Code for shaft seal:                     | HQQV                              |
| Approvals on nameplate:                  | CE, EAC                           |
| Curve tolerance:                         | ISO9906:2012 3B                   |
| Pump version:                            | A                                 |
| Model:                                   | A                                 |
| <b>Materials:</b>                        |                                   |
| Base:                                    | Stainless steel<br>EN 1.4408      |
|  | AISI 316                          |
| Impeller:                                | Stainless steel<br>EN 1.4301      |
|  | AISI 304                          |
| Material code:                           | A                                 |
| Code for rubber:                         | V                                 |
| Bearing:                                 | SIC                               |
| <b>Installation:</b>                     |                                   |
| Maximum ambient temperature:             | 60 °C                             |
| Maximum operating pressure:              | 16 bar                            |
| Max pressure at stated temp:             | 16 bar / 90 °C<br>16 bar / -20 °C |
| Type of connection:                      | DIN / ANSI / JIS                  |
| Size of inlet connection:                | DN 50<br>2 inch                   |
| Size of outlet connection:               | DN 50<br>2 inch                   |
| Pressure rating for pipe connection:     | PN 25                             |
| Flange rating inlet:                     | 300 lb                            |
| Flange size for motor:                   | FF300                             |
| Connect code:                            | FGJ                               |
| <b>Liquid:</b>                           |                                   |
| Pumped liquid:                           | Water                             |
| Liquid temperature range:                | -20 .. 90 °C                      |
| Selected liquid temperature:             | 20 °C                             |
| Density at selected liquid temperature:  | 998.2 kg/m <sup>3</sup>           |
| <b>Electrical data:</b>                  |                                   |
| Motor standard:                          | IEC                               |
| Motor type:                              | 160MB                             |
| IE Efficiency class:                     | IE3                               |
| Rated power - P2:                        | 11 kW                             |
| Power (P2) required by pump:             | 11 kW                             |
| Mains frequency:                         | 50 Hz                             |





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| Description                      | Value                   |
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| Rated voltage:                   | 3 x 380-415D/660-690Y V |
| Rated current:                   | 20,8-19,8/12,0-11,8 A   |
| Starting current:                | 660-780 %               |
| Cos phi - power factor:          | 0.88-0.84               |
| Rated speed:                     | 2940-2950 rpm           |
| Efficiency:                      | IE3 91,2%               |
| Motor efficiency at full load:   | 91,2-91,2 %             |
| Motor efficiency at 3/4 load:    | 91,8 %                  |
| Motor efficiency at 1/2 load:    | 91,3 %                  |
| Number of poles:                 | 2                       |
| Enclosure class (IEC 34-5):      | 55 Dust/Jetting         |
| Insulation class (IEC 85):       | F                       |
| Motor protec:                    | PTC                     |
| Motor No:                        | 85U17524                |
| <b>Controls:</b>                 |                         |
| Frequency converter:             | NONE                    |
| <b>Others:</b>                   |                         |
| Minimum efficiency index, MEI %: | 0.70                    |
| Net weight:                      | 142 kg                  |
| Gross weight:                    | 171 kg                  |
| Shipping volume:                 | 0.488 m <sup>3</sup>    |
| Country of origin:               | GB                      |
| Custom tariff no.:               | 84137075                |