




Position	Qty.	Description
	1	<p data-bbox="359 163 630 197">CME3-4 A-S-A-E-AVBE</p> <div data-bbox="438 264 646 414" style="text-align: center;">  </div> <p data-bbox="359 481 630 515">Product No.: 98395063</p> <p data-bbox="359 548 1452 645">Compact, reliable, horizontal, multistage, end-suction centrifugal pump with axial suction port and radial discharge port. The shaft, impellers and chambers are made of stainless steel. The inlet and discharge parts are made of cast iron. The mechanical shaft seal is a special designed, unbalanced O-ring seal. Pipework connection is via internal NPT pipe threads.</p> <p data-bbox="359 660 1452 806">The pump is fitted with a 1-phase, fan-cooled, permanent-magnet, synchronous motor. The motor includes a frequency converter and PI controller in the motor terminal box. This enables continuously variable control of the motor speed, which again enables adaptation of the performance to a given requirement. The combined motor and frequency converter efficiency exceeds the super premium efficiency IE4 level defined for fixed-speed motors in IEC 60034-30-1 Edition 1 (CD).</p> <p data-bbox="359 824 678 857">Further product details</p> <p data-bbox="359 862 1452 913">Pump and motor are integrated in a compact and user-friendly design. The pump is fitted to a low base plate, making it ideal for installation in systems where compactness is important.</p> <p data-bbox="359 918 1452 969">The state-of-the-art design and materials of the shaft seal ensure high wear resistance, improved sticking and dry-running capabilities and long operating life.</p> <p data-bbox="359 974 1452 1025">Servicing the pump requires no special service tools. Service parts are in stock for quick delivery and are available as kits, single parts or bulk. Service videos are available on www.youtube.com.</p> <p data-bbox="359 1064 949 1097">Frequency converter operation offers these functions:</p> <ul data-bbox="391 1097 965 1182" style="list-style-type: none"> - controlled operation, i.e. consumption fluctuates - constant pressure - communication with the pump. <p data-bbox="359 1209 1380 1243">Adaption of performance through frequency-controlled speed offers obvious benefits such as:</p> <ul data-bbox="391 1243 1141 1328" style="list-style-type: none"> - energy savings - increased comfort - control and monitoring of the application and pump performance. <p data-bbox="359 1361 1452 1440">A control panel on the motor terminal box enables setting of required setpoint as well as setting of pump to "Min." or "Max." operation or to "Stop". The Grundfos Eye indicator on the control panel provides visual indication of pump status:</p> <ul data-bbox="391 1444 1452 1590" style="list-style-type: none"> - "Power on": Motor is running (rotating green indicator lights) or not running (permanently green indicator lights) - "Warning": Motor is still running (rotating yellow indicator lights) or has stopped (permanently yellow indicator lights) - "Alarm": Motor has stopped (flashing red indicator lights). <p data-bbox="359 1624 1452 1697">Communication with the pump is possible by means of the Grundfos GO Remote (accessory). The remote control enables further settings as well as reading out of a number of parameters such as "Actual value", "Speed", "Power input" and total "Power consumption".</p> <p data-bbox="359 1765 1452 1843">The product carries the Grundfos Blueflux® label. It represents the best from Grundfos within energy-efficient motors and frequency converters. Grundfos Blueflux® solutions either meet or exceed legislative requirements such as the EuP IE3 or IE4 grade.</p> <div data-bbox="359 1870 518 2004" style="text-align: center;">  </div>

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		<p>Pump</p> <p>A combination of a stop ring and a Nord-lock® washer secures a tight and reliable fixation of the impeller spacing pipes to the splined pump shaft. It is possible to remove and fit the hydraulic parts from the pump side. The inlet part, chambers and discharge part are hold together by four staybolts.</p> <p>The pump is fitted with an unbalanced O-ring seal with a rigid torque transmission system. It has a fixed seal driver ensuring a reliable rotation of all parts. The dynamic secondary seal is an O-ring.</p> <p>Primary seal:</p> <ul style="list-style-type: none"> - Rotating seal ring material: Aluminium oxide (alumina) - Stationary seat material: Carbon graphite, resin-impregnated <p>Carbon graphite against alumina is a good all-round seal for not too demanding applications. The corrosion resistance is often limited in water to a range between pH 5 and pH 10. Usage in liquids above +90 °C is not recommended. The seal can handle dry-running conditions for short periods.</p> <p>Secondary seal material: EPDM (ethylene-propylene rubber)</p> <p>EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.</p>  <p>The pump shaft is connected to the motor shaft through a left thread and tight fit. The shaft cannot be dismantled.</p> <p>Motor</p> <p>The motor is a totally enclosed, fan-cooled motor with principal dimensions to EN 50347. Electrical tolerances comply with EN 60034.</p> <p>The motor requires no external motor protection. The motor control unit incorporates protection against slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.</p> <p>The terminal box holds terminals for these connections:</p> <ul style="list-style-type: none"> - one dedicated digital input - two analog inputs, 0(4)-20 mA, 0-5 V, 0-10 V, 0.5 - 3.5 V - 5 V voltage supply to potentiometer and sensor - one configurable digital input or open-collector output - Grundfos Digital Sensor input and output - 24 V voltage supply for sensors - two signal relay outputs (potential-free contacts) - GENIbus connection - interface for Grundfos CIM fieldbus module. <p>Technical data</p> <p>Liquid:</p> <table> <tr> <td>Pumped liquid:</td> <td>Water</td> </tr> <tr> <td>Liquid temperature range:</td> <td>-20 .. 90 °C</td> </tr> <tr> <td>Liquid temp:</td> <td>20 °C</td> </tr> <tr> <td>Density:</td> <td>998.2 kg/m³</td> </tr> <tr> <td>Kinematic viscosity:</td> <td>1 mm²/s</td> </tr> </table> <p>Technical:</p> <table> <tr> <td>Speed for pump data:</td> <td>3480 rpm</td> </tr> <tr> <td>Rated flow:</td> <td>3.7 m³/h</td> </tr> <tr> <td>Rated head:</td> <td>39.9 m</td> </tr> <tr> <td>Shaft seal:</td> <td>AVBE</td> </tr> <tr> <td>Approvals on nameplate:</td> <td>CE,TR,CURUS</td> </tr> <tr> <td>Curve tolerance:</td> <td>ISO 9906:1999 Annex A</td> </tr> </table> <p>Materials:</p> <table> <tr> <td>Pump housing:</td> <td>Cast iron</td> </tr> </table>	Pumped liquid:	Water	Liquid temperature range:	-20 .. 90 °C	Liquid temp:	20 °C	Density:	998.2 kg/m ³	Kinematic viscosity:	1 mm ² /s	Speed for pump data:	3480 rpm	Rated flow:	3.7 m ³ /h	Rated head:	39.9 m	Shaft seal:	AVBE	Approvals on nameplate:	CE,TR,CURUS	Curve tolerance:	ISO 9906:1999 Annex A	Pump housing:	Cast iron
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		<p>EN-JL1030 AISI 30 B Impeller: Stainless steel DIN W.-Nr. 1.4301 AISI 304 Rubber: EPDM</p> <p>Installation: Maximum ambient temperature: 40 °C Maximum operating pressure: 10 bar Max pressure at stated temp: 6 bar / 90 °C 10 bar / 40 °C</p> <p>Flange standard: INTERNAL NPT THREAD Pump inlet: NPT 1 Pump outlet: NPT 1</p> <p>Electrical data: Motor type: 80B Rated power - P2: 1.1 kW Mains frequency: 50 Hz Rated voltage: 1 x 200-240 V Rated current: 6,70-5,60 A Rated speed: 360-4000 rpm Enclosure class (IEC 34-5): IP55 Insulation class (IEC 85): F</p> <p>Others: Label: Grundfos Blueflux Minimum efficiency index, MEI : 0,7 Net weight: 14.1 kg Gross weight: 17.6 kg</p>

98395063 CME3-4 50 Hz

