

Series:

KRS(Energy-Saving)

Discharge Bore:

100 - 200mm

Motor Output / Pole:

3 - 9kW / 4-pole

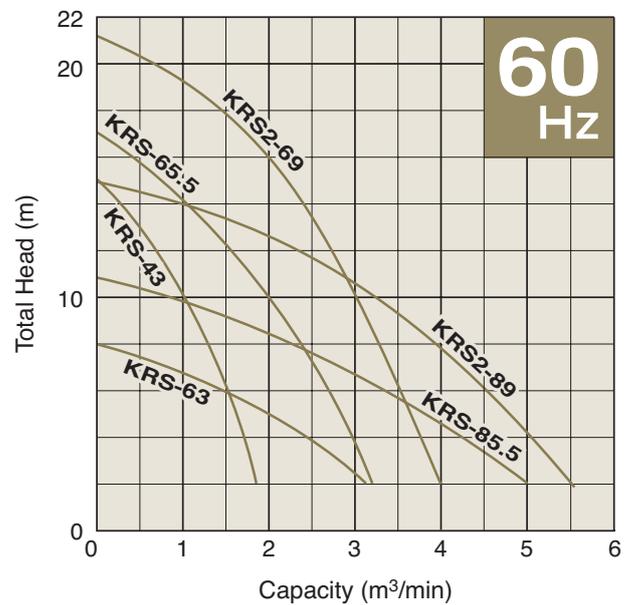
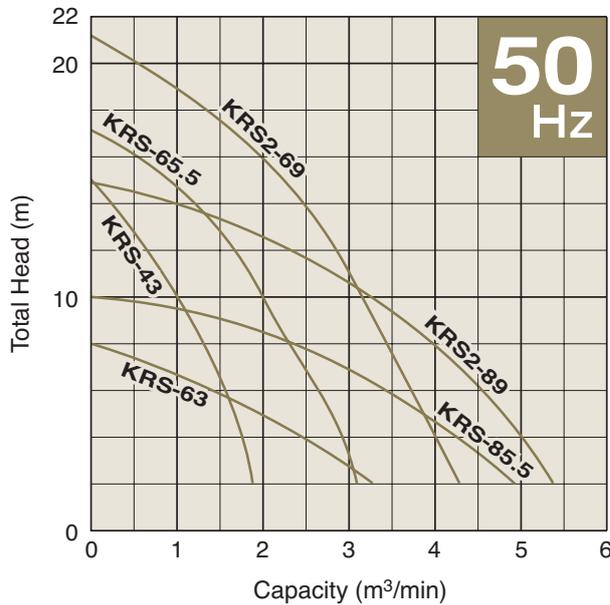


The KRS-series of energy-saving type is a submersible three-phase cast iron high volume heavy-duty drainage pump driven by a 4-pole motor. It consumes less energy than the standard KRS-series at lower head applications. The cast iron body, combined with the low speed motor, presents extra durability for use in the most demanding conditions. The top discharge, side flow design assures efficient motor cooling even when it operates with its motor exposed to air.

Selection Table

Model	Discharge Bore mm	Motor Output kW	Phase	Starting Method	Pole	Dry Weight kg
KRS-43	100	3	3-phase	Direct on Line	4	95
KRS-63	150	3	3-phase	Direct on Line	4	97
KRS-65.5	150	5.5	3-phase	Direct on Line	4	118
KRS2-69	150	9	3-phase	Direct on Line	4	155
KRS-85.5	200	5.5	3-phase	Direct on Line	4	126
KRS2-89	200	9	3-phase	Direct on Line	4	175

Performance Curves



SPECIFICATIONS	Model	KRS-43	KRS(E-Save)-series
			3kW, 3-phase

<p>Type of Pump Submersible high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 100mm, Hose Coupling</p> <p>Motor Output 3kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Direct on Line (Star-Delta available on special request)</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: E Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 6.9A</td> <td>220V – 11.6A</td> </tr> <tr> <td>400V – 6.5A</td> <td>380V – 6.7A</td> </tr> <tr> <td>415V – 6.3A</td> <td>440V – 5.8A</td> </tr> </table> <p>Power Cable Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 2.0mm², O.D. 14.4mm</p> <p>Dry Weight (excluding cable) 95kg</p>	50Hz	60Hz	380V – 6.9A	220V – 11.6A	400V – 6.5A	380V – 6.7A	415V – 6.3A	440V – 5.8A	<p>Impeller Semi-open impeller made of ductile cast iron</p> <p>Solids Passage 50Hz – ϕ12mm 60Hz – ϕ12mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used as a “Dust Seal”; it protects the mechanical seal from abrasive particles.</p> <p>OIL LIFTER Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 1440ml</p> <p>Motor Protection Device A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.</p>
50Hz	60Hz								
380V – 6.9A	220V – 11.6A								
400V – 6.5A	380V – 6.7A								
415V – 6.3A	440V – 5.8A								

Optional Accessory	Special Specifications
Male Threaded Coupling	High Temperature Liquids Version (60-80°C)

SPECIFICATIONS	Model	KRS-63	KRS(E-Save)-series
			3kW, 3-phase

<p>Type of Pump Submersible high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 150mm, Hose Coupling</p> <p>Motor Output 3kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Direct on Line (Star-Delta available on special request)</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: E Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0" style="width: 100%;"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 6.9A</td> <td>220V – 11.6A</td> </tr> <tr> <td>400V – 6.5A</td> <td>380V – 6.7A</td> </tr> <tr> <td>415V – 6.3A</td> <td>440V – 5.8A</td> </tr> </table> <p>Power Cable Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 2.0mm², O.D. 14.4mm</p> <p>Dry Weight (excluding cable) 97kg</p>	50Hz	60Hz	380V – 6.9A	220V – 11.6A	400V – 6.5A	380V – 6.7A	415V – 6.3A	440V – 5.8A	<p>Impeller Closed impeller made of ductile cast iron</p> <p>Solids Passage 50Hz – ϕ15mm 60Hz – ϕ15mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used as a “Dust Seal”; it protects the mechanical seal from abrasive particles.</p> <p>OIL LIFTER Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 1440ml</p> <p>Motor Protection Device A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.</p>
50Hz	60Hz								
380V – 6.9A	220V – 11.6A								
400V – 6.5A	380V – 6.7A								
415V – 6.3A	440V – 5.8A								

<p>Optional Accessory</p> <p>Male Threaded Coupling</p>	<p>Special Specifications</p> <p>High Temperature Liquids Version (60-80°C)</p>
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SPECIFICATIONS	Model	KRS-65.5	KRS(E-Save)-series
			5.5kW, 3-phase

<p>Type of Pump Submersible high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 150mm, Hose Coupling</p> <p>Motor Output 5.5kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Direct on Line (Star-Delta available on special request)</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: E Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 12.8A</td> <td>220V – 20.0A</td> </tr> <tr> <td>400V – 12.1A</td> <td>380V – 12.1A</td> </tr> <tr> <td>415V – 11.7A</td> <td>440V – 10.3A</td> </tr> </table> <p>Power Cable Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 3.5mm², O.D. 16.8mm</p> <p>Dry Weight (excluding cable) 118kg</p>	50Hz	60Hz	380V – 12.8A	220V – 20.0A	400V – 12.1A	380V – 12.1A	415V – 11.7A	440V – 10.3A	<p>Impeller Semi-open impeller made of ductile cast iron</p> <p>Solids Passage 50Hz – φ20mm 60Hz – φ20mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used as a “Dust Seal”; it protects the mechanical seal from abrasive particles.</p> <p>OIL LIFTER Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 1960ml</p> <p>Motor Protection Device A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor</p>
50Hz	60Hz								
380V – 12.8A	220V – 20.0A								
400V – 12.1A	380V – 12.1A								
415V – 11.7A	440V – 10.3A								

<p>Optional Accessory</p> <p>Male Threaded Coupling</p>	<p>Special Specifications</p> <p>High Temperature Liquids Version (60-80°C)</p>
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SPECIFICATIONS	Model	KRS2-69									
		KRS(E-Save)-series 9kW, 3-phase									
<p>Type of Pump Submersible high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 150mm, Hose Coupling</p> <p>Motor Output 9kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Direct on Line (Star-Delta available on special request)</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: B Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 20.0A</td> <td>220V – 33.0A</td> </tr> <tr> <td>400V – 19.0A</td> <td>380V – 19.1A</td> </tr> <tr> <td>415V – 19.0A</td> <td>440V – 16.5A</td> </tr> </table> <p>Power Cable Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 5.5mm², O.D. 19.8mm</p> <p>Dry Weight (excluding cable) 155kg</p>	50Hz	60Hz	380V – 20.0A	220V – 33.0A	400V – 19.0A	380V – 19.1A	415V – 19.0A	440V – 16.5A	<p>Impeller Semi-open impeller made of ductile cast iron</p> <p>Solids Passage 50Hz – ϕ20mm 60Hz – ϕ20mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used as a “Dust Seal”; it protects the mechanical seal from abrasive particles.</p> <p>OIL LIFTER Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 2300ml</p> <p>Motor Protection Device A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.</p>		
50Hz	60Hz										
380V – 20.0A	220V – 33.0A										
400V – 19.0A	380V – 19.1A										
415V – 19.0A	440V – 16.5A										
<p>Optional Accessory</p> <p>Male Threaded Coupling</p>		<p>Special Specifications</p> <p>High Temperature Liquids Version (60-80°C)</p>									

SPECIFICATIONS	Model	KRS-85.5									
		KRS(E-Save)-series 5.5kW, 3-phase									
<p>Type of Pump Submersible high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 200mm, Hose Coupling</p> <p>Motor Output 5.5kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Direct on Line (Star-Delta available on special request)</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: E Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 12.8A</td> <td>220V – 20.0A</td> </tr> <tr> <td>400V – 12.1A</td> <td>380V – 12.1A</td> </tr> <tr> <td>415V – 11.7A</td> <td>440V – 10.3A</td> </tr> </table> <p>Power Cable Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 3.5mm², O.D. 16.8mm</p> <p>Dry Weight (excluding cable) 126kg</p>	50Hz	60Hz	380V – 12.8A	220V – 20.0A	400V – 12.1A	380V – 12.1A	415V – 11.7A	440V – 10.3A		<p>Impeller Closed impeller made of ductile cast iron</p> <p>Solids Passage 50Hz – ϕ20mm 60Hz – ϕ20mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used as a “Dust Seal”; it protects the mechanical seal from abrasive particles.</p> <p>OIL LIFTER Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 1960ml</p> <p>Motor Protection Device A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.</p>	
50Hz	60Hz										
380V – 12.8A	220V – 20.0A										
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<p>Optional Accessory Male Threaded Coupling</p>		<p>Special Specifications High Temperature Liquids Version (60-80°C)</p>									

SPECIFICATIONS	Model	KRS2-89	KRS(E-Save)-series
			9kW, 3-phase

<p>Type of Pump Submersible high volume drainage pump for construction and foundation works, floodwater drainage, etc.</p> <p>Type of Fluid Stormwater, groundwater, wash water, and sand-carrying water</p> <p>Temperature: 0 to 40°C</p> <p>Discharge Bore & Connection 200mm, Hose Coupling</p> <p>Motor Output 9kW</p> <p>Power Supply Three-phase</p> <p>Starting Method Direct on Line (Star-Delta available on special request)</p> <p>Motor Continuous-duty rated, dry-type induction motor</p> <p>Insulation Class: B Degree of Protection: IP68</p> <p>No. of Poles & Speed (Synchronous Speed) 4-pole, 1500/1800min⁻¹ (50/60Hz)</p> <p>Power Supply Voltages & Rated Currents</p> <table border="0"> <tr> <td>50Hz</td> <td>60Hz</td> </tr> <tr> <td>380V – 20.0A</td> <td>220V – 33.0A</td> </tr> <tr> <td>400V – 19.0A</td> <td>380V – 19.1A</td> </tr> <tr> <td>415V – 19.0A</td> <td>440V – 16.5A</td> </tr> </table> <p>Power Cable Sheath: Chloroprene rubber Standard Length: 8m 200 to 600V supply: 1 x 4 x 5.5mm², O.D. 19.8mm</p> <p>Dry Weight (excluding cable) 175kg</p>	50Hz	60Hz	380V – 20.0A	220V – 33.0A	400V – 19.0A	380V – 19.1A	415V – 19.0A	440V – 16.5A	<p>Impeller Semi-open impeller made of ductile cast iron</p> <p>Solids Passage 50Hz – ϕ30mm 60Hz – ϕ30mm</p> <p>Cable Entry with Anti-Wicking Block Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.</p> <p>Bearing Permanently lubricated, deep-groove, double-shielded C3 ball bearings</p> <p>Shaft 420 stainless steel</p> <p>Shaft Seal (Mechanical Seal) Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.</p> <p>Upper Seal Face: SiC + SiC Lower Seal Face: SiC + SiC</p> <p>Oil Seal (Lip Seal) Used as a “Dust Seal”; it protects the mechanical seal from abrasive particles.</p> <p>OIL LIFTER Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.</p> <p>Type of Lubricating Oil & Volume Turbine Oil (ISO VG32), 2300ml</p> <p>Motor Protection Device A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.</p>
50Hz	60Hz								
380V – 20.0A	220V – 33.0A								
400V – 19.0A	380V – 19.1A								
415V – 19.0A	440V – 16.5A								

<p>Optional Accessory</p> <p>Male Threaded Coupling</p>	<p>Special Specifications</p> <p>High Temperature Liquids Version (60-80°C)</p>
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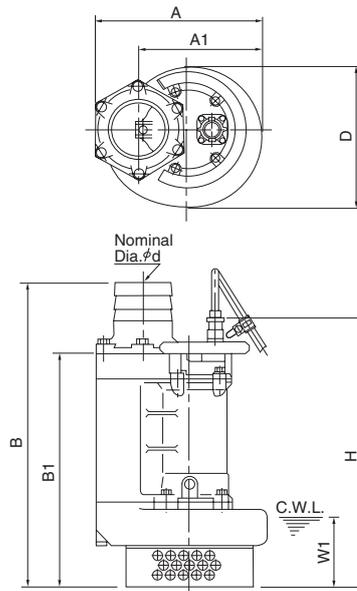
DIMENSIONS

Model

KRS-43 to KRS2-89

KRS(E-Save)-series

100 - 200mm



C. W. L. : Continuous Running Water Level

Unit: mm

Model	d	A	A1	B	B1	D	H	W1
KRS-43	100	378	288	723	561	347	622	170
KRS-63	150	384	294	866	686	365	747	300
KRS-65.5	150	425	305	790	608	370	669	190
KRS2-69	150	490	372	812	630	424	742	200
KRS-85.5	200	446	326	941	710	413	771	295
KRS2-89	200	473	355	933	701	408	913	300