


Position	Qty.	Description	Single Price
	1	<p><b>SEV.65.65.22.2.50D</b></p>  <p><b>Note! Product picture may differ from actual product</b></p> <p>Product No.: 96047697</p> <p>Highly advanced pumps with many unique features. The Grundfos SEV ranges are technologically advanced pumps designed for handling wastewater, process water and unscreened raw sewage in heavy-duty municipal utilities and industrial applications. These heavy-duty pumps are built for years of trouble-free operation in the most demanding applications. The pumps may be installed submerged or dry without motor cooling; in either case they are extremely reliable and very easy to service. The efficient SuperVortex impellers provides free passage of solids up to 100 mm. This greatly reduces the risk of clogging and ensures maximum up-time and reduced operating costs.</p> <p><b>Advanced technology inside out</b> The Grundfos SEV pumps feature advanced technology inside out. In spite of their good looks, these highly efficient pumps are designed for years of trouble-free operation in the toughest environments. Easy to install and easy to service, the SEV pumps ensure low long-term operating costs.</p> <p><b>Watertight cable connection</b> Polyurethane-filled stainless steel cable connection, hermetically sealed. Ensures that liquid cannot penetrate through the cable into the motor.</p> <p><b>Short rotor shaft</b> Compact motor construction with short rotor shaft reduces vibrations. Increases efficiency and lifetime of shaft seal and ball bearings.</p> <p><b>Liquid-less motor cooling</b> Solid-block stator housing with built-in cooling conduits, which efficiently transfer excess heat to pumped liquid via a solid cast intermediate cooling flange. This allows for continuous operation even in a dry installation.</p> <p><b>Double mechanical shaft seal</b> Efficient single-unit cartridge shaft seal system ensures longer operating time and less down-time. Easy to replace in the field without use of special tools.</p> <p><b>Stainless steel motor jacket</b> Extremely robust impact-resistant stainless steel motor-housing jacket, with an easy-to-clean smooth surface.</p> <p><b>Stainless steel clamp</b> Unique stainless steel clamp assembling system enables quick and easy disassembly of pump from motor unit. No tools required. Provides easy access for service and inspection.</p> <p><b>Modular design</b> Each motor size fits several pump sizes with SuperVortex hydraulics.</p> <p><b>Operating conditions</b> The Grundfos SEV pumps are suitable for continuous submerged operation with a liquid level just above the pump housing, or in a dry installation without separate motor</p>	Price on request

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		<p>cooling arrangements.</p> <p>Explosion-proof versions For applications involving a risk of explosion, or where otherwise required, explosion-proof versions of the Grundfos SEV pumps are available. The SEV pumps are in a II 2 GD, EEx d IIB 135°C (T4) c 135°C (T4) explosion protection classification according to EN standards 50 014-1997 / 50 018-2000 / 50 281-1-1. The SEV pumps are also available with a Class 1 Zone 2, Ex nA IIB 200°C (T3) classification in accordance with the IEC 60079-15:1987.</p> <p>Approvals The SEV.65, SEV.80 and SEV.100, have been approved according to DIN 12050-1, for use in buildings services by the German Building Technology Institute.</p> <p><b>Technical:</b>  Resulting head of the pump: 11.5 m  Type of impeller: SUPER VORTEX  Maximum particle size: 65 mm  Primary shaft seal: SIC/SIC  Secondary shaft seal: CARBON/CERAMICS  Max. hydraulic efficiency: 30 %  Approvals on nameplate: EN12050-1</p> <p><b>Materials:</b>  Pump housing: EN-GJL-200  Impeller: EN-GJL-200</p> <p><b>Installation:</b>  Maximum ambient temperature: 40 °C  Maximum operating pressure: 6 bar  Flange standard: DIN  Pump outlet: DN 65  Pressure stage: PN 10  Maximum installation depth: 20 m</p> <p><b>Liquid:</b>  Pumped liquid: Any Newtonian liquid  Liquid temperature range: 0 .. 40 °C  Density: 998.2 kg/m<sup>3</sup></p> <p><b>Electrical data:</b>  Number of poles: 2  Power input - P1: 2.8 kW  Rated power - P2: 2.2 kW  Mains frequency: 50 Hz  Rated voltage: 3 x 380-415 V  Voltage tolerance: +6/-10 %  Start. method: direct-on-line  Max starts per. hour: 20  Rated current: 5,1-5,0 A  Rated current at 3/4 load: 3.8 A  Rated current at 1/2 load: 3 A  Starting current: 37 A  Rated current at no load: 2 A  Cos phi - power factor: 0,86  Cos phi - p.f. at no load: 0,21  Cos phi - p.f. at 3/4 load: 0,81  Cos phi - p.f. at 1/2 load: 0,72  Rated speed: 2895 rpm  Locked-rotor torque: 18 Nm  Breakdown torque: 23 Nm  Moment of inertia: 0.0088 kg m<sup>2</sup>  Motor efficiency at full load: 77 %  Motor efficiency at 3/4 load: 76,6 %  Motor efficiency at 1/2 load: 73,5 %  Enclosure class (IEC 34-5): 68</p>	

<i>Position</i>	<i>Qty.</i>	<i>Description</i>	<i>Single Price</i>
		Insulation class (IEC 85): F Length of cable: 10 m Cable type: LYNIFLEX Type of cable plug: NO PLUG  <b>Controls:</b> Moisture sensor: without moisture sensors Water-in-oil sensor: without water-in-oil sensor Temp. sensor: N  <b>Others:</b> Net weight: 89 kg	

Description	Value
Product No:	SEV.65.65.22.2.50D 96047697 5700395060362
Technical:	
Max flow:	12.5 l/s
Resulting head of the pump:	11.5 m
Head max:	17.8 m
Type of impeller:	SUPER VORTEX
Maximum particle size:	65 mm
Primary shaft seal:	SIC/SIC
Secondary shaft seal:	CARBON/CERAMICS
Max. hydraulic efficiency:	30 %
Approvals on nameplate:	EN12050-1
Materials:	
Pump housing:	EN-GJL-200
Impeller:	EN-GJL-200
Installation:	
Maximum ambient temperature:	40 °C
Maximum operating pressure:	6 bar
Flange standard:	DIN
Pump outlet:	DN 65
Pressure stage:	PN 10
Maximum installation depth:	20 m
Inst dry/wet:	DRY/SUBMERGED
Installation:	horizontal or vertical
Liquid:	
Pumped liquid:	Any Newtonian liquid
Liquid temperature range:	0 .. 40 °C
Density:	998.2 kg/m <sup>3</sup>
Electrical data:	
Number of poles:	2
Power input - P1:	2.8 kW
Rated power - P2:	2.2 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 380-415 V
Voltage tolerance:	+6/-10 %
Start. method:	direct-on-line
Max starts per. hour:	20
Rated current:	5,1-5,0 A
Rated current at 3/4 load:	3.8 A
Rated current at 1/2 load:	3 A
Starting current:	37 A
Rated current at no load:	2 A
Cos phi - power factor:	0,86
Cos phi - p.f. at no load:	0,21
Cos phi - p.f. at 3/4 load:	0,81
Cos phi - p.f. at 1/2 load:	0,72
Rated speed:	2895 rpm
Locked-rotor torque:	18 Nm
Breakdown torque:	23 Nm
Moment of inertia:	0.0088 kg m <sup>2</sup>
Motor efficiency at full load:	77 %
Motor efficiency at 3/4 load:	76,6 %
Motor efficiency at 1/2 load:	73,5 %
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Motor protec:	THERMAL SWITCH
Thermal protec:	internal
Length of cable:	10 m
Cable type:	LYNIFLEX
Type of cable plug:	NO PLUG
Controls:	
Control box:	not included
Moisture sensor:	without moisture sensors
Water-in-oil sensor:	without water-in-oil sensor
Temp. sensor:	N
Others:	
Net weight:	89 kg

