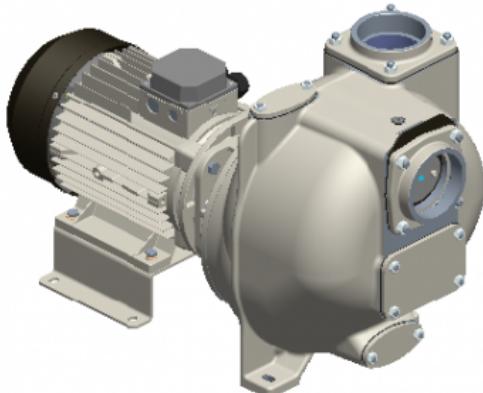


S121 G33T



Product codes:

Reference: 14100

Product short description:

4" Self-priming centrifugal pump in cast iron with mechanical seal, grease-lubricated, non return valve and 11 kW electric motor close coupled

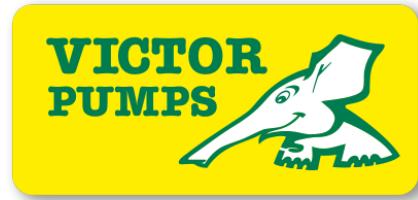
Product features:

Main Features
Pump series: S121
Pump Flow Rate: max 180 m ³ /h (3000 l/min)
Pump head with 50 Hz grid frequency: max 24 m
Max. Solids Handling: 45 mm
Self-priming: ★★★★★
Heavy-duty: ★★★★☆
Construction: Close Coupled
Pump
Type of Pump: Self-priming centrifugal pump
Suction port: 4"
Discharge port: 4"
Type of ports: Female Thread BSP
Type of self-priming: Wet-prime
Inspection cover for the impeller: Yes
Filling port: Yes



Drain Port: Yes
Plug for Vacumeter: Option
Plug for the Manometer: Option
Material of casing: Cast iron
Material of impeller: Ductile Cast-iron
Material of wear plate: Steel
Material of shaft: Stainless steel AISI420
Material of non-return valve: NBR (Nitrile)
Shaft sealing: YYV+N Mechanical Seal with Grease Lubrication in SiC/SiC/FKM(Viton®)+Nitrile on Stainless Steel Sleeve AISI316
Drive
Type of drive unit: Three-Phase Electric Motor
Drive Manufacturer: Victor Pumps
Efficiency class: IE1, S6-75%
Rated Power: 11 kW
Maximal Rotation: 1450 rpm (50 Hz)
Rated voltage: 400 V \pm 10% @ 50 Hz, 690 V \pm 10% @ 50 Hz
Protection: 26 Amp (380-480 V), 16 Amp (660-725 V)
Cooling method: IC411- TEFC
Protection degree: IP55
Insulation class: F
Performance data
Typical application: waste water with solids in suspension, non-corrosive
Product temperature: max. 60 °C
Ambient temperature: max. 40 °C
Density: up to 1, 1 kg/dm ³ , for higher values you need an oversized motor
Viscosity: up to 30 mm ² s (cSt), for higher values you need an oversized motor
Max vacuum with water: max 8 m (9, 5 m for 10 min)
Max vacuum with air: max 8, 5 m
Additional Features
Setup position: Horizontal
Coupling: One shaft solution without any coupling
Paint: RAL6011 Reseda green
External Dimensions (L x W x H): see dimensions
Net Weight: see dimensions

Product gallery:



Performance

VICTOR PUMPS

2102100001 10.03.2011

S121 - 50 Hz

Leistung: 0,27 kW
Drehzahl: 2960 min⁻¹
Durchfluss: 1800 l/min bei 100% Drehzahl

Feststoffe bis:
Sedimente bis:
Staub bis zu:

Umfangreich
Spannweite: ~ 1400 m³/h
Viskosität:

Graph 1: Head (m) vs. Flow rate (l/min)

Flow rate (l/min)	Head (m) at 2960 min ⁻¹	Head (m) at 1480 min ⁻¹	Head (m) at 740 min ⁻¹
0	28	28	28
500	26	26	26
1000	23	23	23
1500	19	19	19
2000	14	14	14
2500	8	8	8
3000	0	0	0

Graph 2: Power (kW) vs. Flow rate (l/min)

Flow rate (l/min)	Power (kW) at 2960 min ⁻¹	Power (kW) at 1480 min ⁻¹	Power (kW) at 740 min ⁻¹
0	0.27	0.27	0.27
500	0.27	0.27	0.27
1000	0.27	0.27	0.27
1500	0.27	0.27	0.27
2000	0.27	0.27	0.27
2500	0.27	0.27	0.27
3000	0.27	0.27	0.27

Graph 3: Current (A) vs. Flow rate (l/min)

Flow rate (l/min)	Current (A) at 2960 min ⁻¹	Current (A) at 1480 min ⁻¹	Current (A) at 740 min ⁻¹
0	1.0	1.0	1.0
500	1.0	1.0	1.0
1000	1.0	1.0	1.0
1500	1.0	1.0	1.0
2000	1.0	1.0	1.0
2500	1.0	1.0	1.0
3000	1.0	1.0	1.0

Graph 4: Efficiency (%) vs. Flow rate (l/min)

Flow rate (l/min)	Efficiency (%) at 2960 min ⁻¹	Efficiency (%) at 1480 min ⁻¹	Efficiency (%) at 740 min ⁻¹
0	70	70	70
500	75	75	75
1000	80	80	80
1500	85	85	85
2000	88	88	88
2500	89	89	89
3000	88	88	88

Graph 5: Specific speed (cfs) vs. Flow rate (l/min)

Flow rate (l/min)	Specific speed (cfs) at 2960 min ⁻¹	Specific speed (cfs) at 1480 min ⁻¹	Specific speed (cfs) at 740 min ⁻¹
0	1.0	1.0	1.0
500	1.0	1.0	1.0
1000	1.0	1.0	1.0
1500	1.0	1.0	1.0
2000	1.0	1.0	1.0
2500	1.0	1.0	1.0
3000	1.0	1.0	1.0

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