

# PRODUCT SELECTION REPORT

Model: XST40-160/40  
Name: End Suction Centrifugal Pump



**Project Name:** Koslan

**Personal Name:** Koslan  
**Company Address:**

**Company Name:**

**Website:** www.leopump.com  
**Company Name:**

**Product Model:** XST40-160/40  
 LEO GROUP PUMP CO., LTD.

## Product Recommendations

**Flow(m<sup>3</sup>/h):** 35      **Head(m):** 29      **Power(kW):** 4

Based on provided information and product parameters, LEO PUMP recommends model: XST40-160/40

## Introduction

### Application

Circulation and transfer of clean, chemically non-aggressive water and other liquids;  
 Water supply & irrigation;  
 Water circulation in air conditioning systems;  
 Fire fighting system;

### Operating Conditions

Delivery: up to 210 m<sup>3</sup>/h;  
 Head: up to 95 m;  
 Liquid temperature: Standard -10°C to 85°C;  
 Maximum operating pressure: 12 bar (PN12) Anti-clockwise rotation when facing pump's suction port  
 Impeller: AISI304, HT200;  
 Mechanical seal in compliance with DIN 24960  
 Lubricated by internal recirculating pumped liquid; Counter flange available on request.

## Product Parameters

### Nameplate

Pump flow rate(m <sup>3</sup> /h):	35	Total manometric head H(m):	29
Overall efficiency(%):	72.8	Speed(rpm):	2900

### Technical

Motor power(kW):	4	Shaft Power(kW):	3.8
Curve tolerance:	ISO9906 Appendix A	Maximum lift(m):	38
Minimum usage flow(m <sup>3</sup> /h):	3.5	Maximum use flow(m <sup>3</sup> /h):	48
Impeller diameter(mm):	173		

### Material

Impeller:	HT200	Pump body:	HT200
Chassis:	ADC12	Rear end cover:	ADC12

Bracket: HT200  
 Mechanical seal: Single mechanical seal20-22

**Working conditions**

Max. ambient temperature(°C): 40  
 Max. Operating Pressure: 12bar  
 Pumped medium: Water or other liquids similar to water  
 Max. liquid temperature(°C): 85

**Installation**

Inlet&Outlet Diameter: 65-40  
 Connection standard: Flange connection

**Motor**

Motor phase: Three phase  
 Motor poles: 2  
 Motor power(kW) : 4  
 Rated voltage(V): 380  
 Drive end bearing: 6206  
 Starting current(A): 86  
 Protection class: IP54  
 Insulation class: F  
 Frequency(Hz): 50  
 Rated current(A): 9.34  
 Non-drive end bearing: 6205

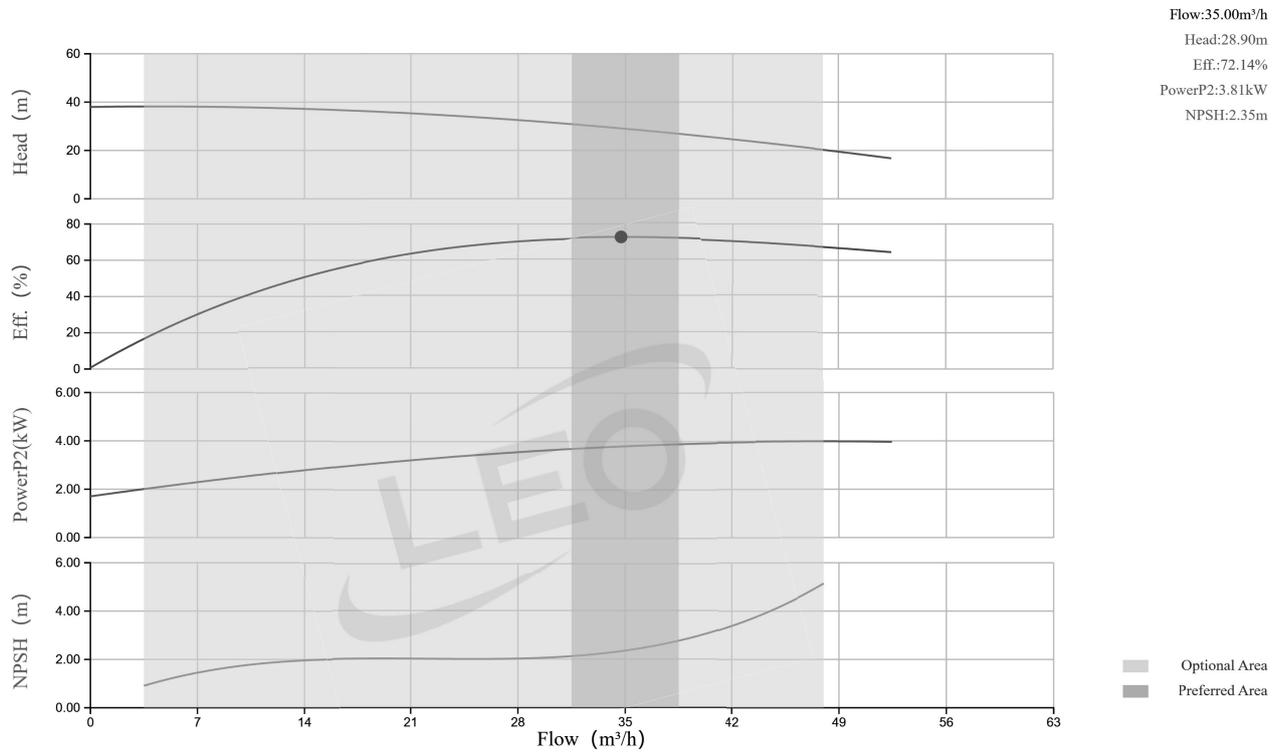
**Weight/Packaging**

Gross weight(kg): 56  
 Package size(mm): 565\*320\*385

**Area Range Parameters**

Max Q(m<sup>3</sup>/h): 48.0  
 Allowable Maximum (m<sup>3</sup>/h): 48.0  
 Max Value Optimal area (m<sup>3</sup>/h): 38.5  
 Allowable Minimum (m<sup>3</sup>/h): 3.5  
 Min Value Optimal area (m<sup>3</sup>/h): 31.5

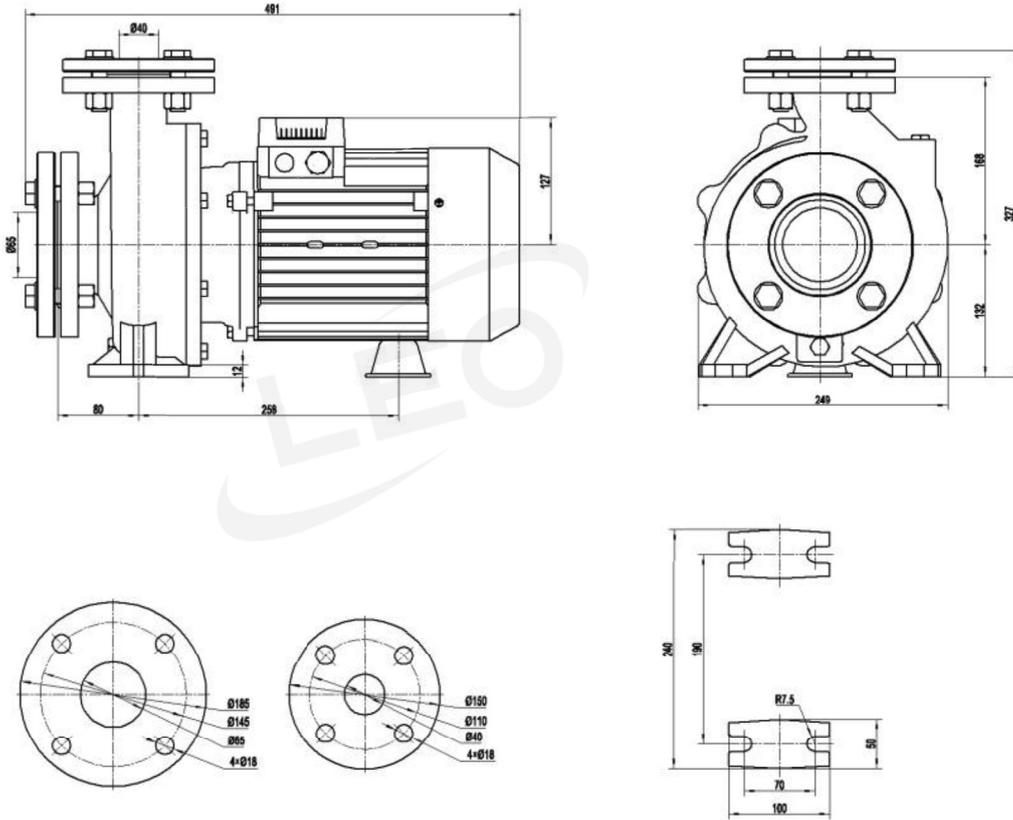
## Performance Curve



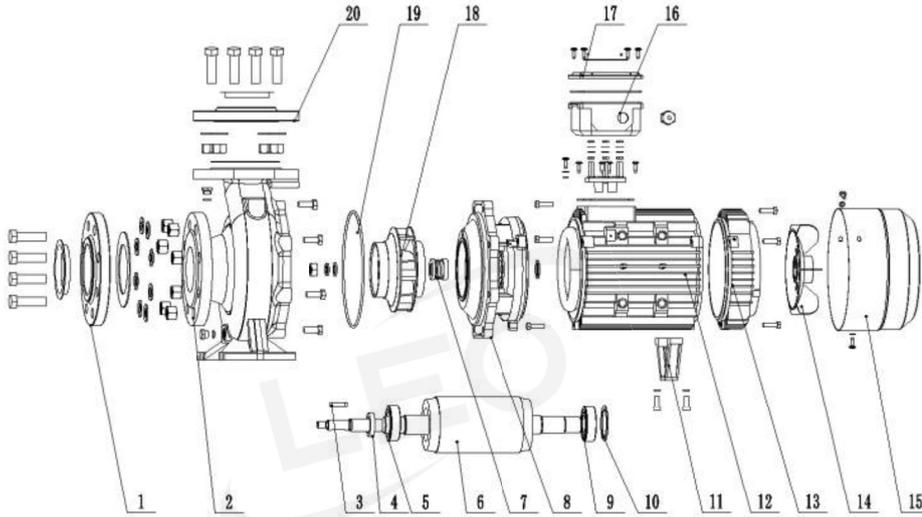
## Basic Parameters

	Pump flow rate(m <sup>3</sup> /h)	Total manometric head H(m)	Pump efficiency(%)	Shaft power (kW)	NPSHr(m)
<b>Rated Point</b>	35.00	29.00	72.8	3.8	2.35
<b>Work Point</b>	35.00	28.90	72.14	3.81	2.35
<b>Minimum Allowed Point</b>	3.50	38.19	16.65	2.00	0.91
<b>Maximum Allowed Point</b>	48.00	20.26	67.32	3.98	5.14
<b>Optimal Working Area (Small)</b>	31.50	30.84	71.74	3.69	2.12
<b>Optimal Working Area (Large)</b>	38.50	26.84	71.66	3.88	2.75

## Shape & Size



# Exploded View



20	lange	HT200	10	Wave spring	69Mn
19	O-ring	NBR	9	Bearing	
18	Impeller	HT200	8	Connector	HT200
17	Terminal box cover		7	Mechanical seal	
16	Terminal box	ADC12	6	Rotor	
15	Fan cover	08F	5	Bearing	
14	Fan	PP	4	Framework sealing	
13	Rear cover	ADC12	3	Key	AT51304
12	Stator		2	Pump inlet	HT200
11	Motor support	HT200	1	lange	HT200
			No.	Name	Material
				Part Name	



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