

Job Title: **Equinix FR12.1 Frankfurt**
 Job Number: **285668-00**
 Made by: **BP**

Purpose of Issue: **D2**
 Checked by: **DD**

Date: **03 February 2023**
 Revision: **P02**

General Data

Unit Reference	1ADBP_M1_1
Phase	Phase 1
Model Reference	STA
Quantity	1
Location	Internal
System	AdBlue ®
Type	STA
Speed Control	VSD

Performance Data

	Required	Offered
Flow Rate	l/hr	1020
Total Pump Pressure	bar (g)	1.53
Minimum Flow Rate	kg/s	STA
Pressure @ Min Flow	kPa	STA
Inlet Pressure	bar (g)	-
Pump Efficiency	%	STA
Pump Speed (Note 1)	rpm	VSD
Max Operating Temperature	°C	40
Max Outlet Pressure	bar (g)	-
NPSH Required	kPa	STA
Bearing Design Life	L10 Hrs	STA

Construction Data

Pump Type	Self-Priming Centrifugal	
Configuration	In line	
Drive Type	VSD	
Casing Material	PP	
Impeller Material	PP	
Shaft Material	STA	
Shaft Seal Type	STA	
Casing & Base Finish / Colour	RAL -	
Connection Type	Flange	

Electrical Data

Electrical Supply	V/Ø/Hz	400/3/50	
Drive Efficiency	%	STA	
Motor Efficiency	%	STA	
Absorbed Power	kW	STA	
Motor Rating	kW	STA	
Motor Type		STA	
Motor Speed	rpm	STA	
Starting Method		STA	
Starting Current	A	STA	
Full Load Running Current	A	STA	

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Noise & Vibration Data

Anti Vibration Mount (AVM) Type
Min AVM Static Deflection

	Rubber	
mm	STA	

Accessories

Anti Vibration Mountings
High Efficiency Motors
Motor Speed / Torque Curve

Required	Offered
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

BMS Outputs

Common Alarm - Volt Free Contact
Run Status - VFC
Available

Required	Offered
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

BMS Inputs

Enable/Disable - Volt Free Contact
Set points

Required	Offered
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Testing

Performance Type Tests
Works Performance Tests
Site OEM Performance Tests

Required	Offered
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Samples

Type Samples

Required	Offered
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Manufacturer

Manufacturer
Contact Name
Telephone Number
Fax Number
E-mail Address
Internet Address

Steinle Industripumpen	Sinntec Schmiersysteme GmbH
(+49) 0211 / 30 20 55 10	+49 (0) 5071 97903 0
technik@steinle-pumpen.de	info@sinntec.de
www.steinle-pumpen.de	www.sinntec.de

Additional Information

- 1 Type test data shall be provided to demonstrate that the equipment performs to the required standards.
- 2 Submit pump curves to demonstrate operating point and part load performance.
- 3 The contractor is responsible to confirm the final pressure drop of the pipework system installed, taking into account changes made on site to the Detailed Design and reflect this increased pressure drop in the final pump selection.
- 4 Supplier to confirm that all gaskets are suitable for AdBlue®.
- 5 Pump to be installed in storage tank enclosure for weather protection.
- 6 Pump to be controlled by external FU. External FU to be included.
- 7 Pump to be fully equipped with all flanges

Comments

AVM - antivibration mount

STA - supplier to advice

PP - Polypropylene

Note

- 1 VSD pump shall operate in constant speed