ALLWEILER GmbH
Kirchhellener Ring 77-79
46244 Bottrop / Germany
our referenz: Marc André Foginski Dep.: GE-V
Date: 14.06.2021

Data Sheet

Quotation-No. **26043393**

Item 10 **1PC** **Allweiler Progressing Cavity Pump AEB1F553-MF/011G0K YL 113P P**
on base plate material Steel

Operating conditions

Pumped liquid	: **Bio sludge**		Deliveryflow	: **25**	*m³/h*
Working temp. tA	: **20**	*°C*	Inlet pressure	: **0**	*bar*
Density at tA	: **1**	*kg/dm³*	Outlet pressure	: **3**	*bar*
Viscosity at tA	: **350**	*mPa·s*	Speed	: **329**	*1/min*
Solide content	: **4.0**	*%*	Power absorbed	: **3,51**	*kW*
Grain size	: **---**	*mm*	Req. drive	: **5,5**	*kW*
NPSH-avail.	: **---**	*m*	Tolerance acc. to	: **VDMA24284, Kl.II GR.II**	
NPSH-req.	: **2,46**	*m*			

Operating conditions 2nd Operating point

Pumped liquid	: **Bio sludge**		Deliveryflow	: **5**	*m³/h*
Working temp. tA	: **20**	*°C*	Inlet pressure	: **0**	*bar*
Density at tA	:	*kg/dm³*	Outlet pressure	: **3**	*bar*
Viscosity at tA	: **350**	*mPa·s*	Speed	: **70**	*1/min*
NPSH-req.	: **---**	*m*	Power absorbed	: **0,75**	*kW*
Solide content	: **4.0**	*%*	Power absorbed	: **0,75**	*kW*
Grain size	: **---**	*mm*	Req. drive	: **5,5**	*kW*
NPSH-avail.	: **---**	*m*	Tolerance acc. to	: **VDMA24284, Kl.II GR.II**	
NPSH-req.	: **---**	*m*			

Design features pump

Connection Inlet	: **DN 100**	Connection Discharge	: **DN 100**
according to	: **DIN EN 1092 PN 16**	according to	: **DIN EN 1092 PN 16**
Branch emplacement	: **on top**		
Sense of rotation	: **ccw (seen from driving side)**		
No. of stages	: **1**		

Materials fluid contacted

Suction casing	: **EN-GJL-250**	Delivery casing	: **EN-GJL-250**
Driving shaft	: **1.4021**	Universal joint shaft	: **1.1191**
Rotor	: **1.2436**	Stator	: **Perbunan**
Rotor coating	: **ductile hard chrome plated**	Joint seals	: **Perbunan**

Shaftsealing

Shaftsealing	: **Mechanical seal; single acting, standard**
Type of mechanical seal	: **Standard**
Design of mechanical seal	: **Rubber bellows, cylind. spring**
Manufacturer	: **Allweiler**
Material	: **Q1Q1VGG**

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Excecution variants

Stator type	:	**drilled for ATLS-T1**
Rotor temperature range	:	**without**
Rotor	:	**solid**
Joint lubricant	:	**standard joint oil type B**

Drive

Drive type / Type	:	**VF-Drive**		**SK33F-AL-132SP/4-5,5-200A32**		
Brand	:	**Nord**		Efficiency class	:	**IE3**
Nominal power	:	**5,5**	*kW*	Voltage/Frequency	:	**400/690 D/Y/50** *V/Hz*
Gear ratio i	:	**6,21**		Enclosure	:	**IP 55, ISO F**
Output speed	:	**236**	*1/min*	Installation	:	**M1(B5)**
Pos. terminal box/ Cable inlet	:	**3 II**				
Motor special design	:	**3 PTC-thermistors**				

Painting

Coating system	:	**Standard** **1x Top coat Alkyd resin 50µm**
Colour	:	**RAL 5017 Traffic blue**

Remarks:
The manufacturer herewith declares that the product is free of asbestos according to the regulation of SOLAS.
The ecodesign regulations (EC) No 640/2009 and (EC) No 4/2014 on the implementation of Directive 2009/125/EC with regard to the settings of ecodesign requirements for electric motors requires that, effective 1/1/2015, the drives with the rated power of 7.5 - 375 KW must meet the efficiency of IE3 motors or IE2 motors with speed control.
From 1/1/2017, the same requirements will apply to motors with a rated output of 0.75 - 375 kW. This applies to deliveries to the European Union.