

		Pump Mode		700MVS-75		
Pump Date Sheet				Page No.		
				2/5		
Customer	: 0	Pump Stages	: 1	Stage		
Project name	: N/A	Quantity	: 2	Sets		
Item number	: N/A	Based on curve no.	: 1210211231			
Pump type	: Axial Flow pump	Manufacture	: Tongke flow			
Service	: Water Supply	Date	: 2017/12/19 19:11			
Primary Operating Conditions(customer to complete)			Materials / Specification			
Capacity @ Temp	: 5040	m ³ /h@25°C	Pump casing	: DIN GG 25	Stuffing box	: DIN GG25
Liquid gravity	: 1.0	kg/cm ³	Impeller	: SS 304	Casing bolts	: SS 304
Normal capacity	: 5040	m ³ /h	Shaft	: SS 420	Mechanical seal	: Burgmann
Total developed head	: 7	m	Bearing support	: DIN GG 25	Gland packing	: N/A
Water head(CH=1.00)	: N/A	m	Shaft sleeve	: N/A	Seal gland	: DIN GG25
NPSH available (NPSHa)	: 10	m	Guide vane	: DIN GG 25	Impller nut	: SS 304
NPSHa less NPSH margin	: 2	m	Column pipe	: N/A	Casing nuts	: SS 304
Maximum suction pressure	: N/A	kPa.g	Suction bell	: DIN GG 25	Motor bracket	: DIN GG25
Discharge pressure	: N/A	kPa.g	Base plate	: Carbon steel	Coupling	: None
Differential pressure	: 7	m	Other Requirements			
Packing or mechnaical seal	: Mechanical seal		Hydraulic selection	: No specification		
Liquid			Construction	: No specification		
Liquid type	: Water		Test tolerance	: ISO 9906 Grade 2B		
Temperature/ Spec. Gravity	: <90 /1.0	°C / kg/cm ³	Speed Set	: 740 rpm		
Solid Size - Actual / Limit	:	mm	Driver Sizing	: Max Power(MCSF to EOC)with SF		
Viscosity / Vapor pressure kPag	: N/A	kPag	Seal configuration	: Gland packing seal		
Performance						
Shaft power	: 116.52	kw	Impeller type	: Propeller axcial flow		
Revolution speed	: 740	rpm	Rated Impeller diameter	: 600	mm	
Pump overall efficiency (CE=1.00)	: 75.1	%	Maximum	: N/A	mm	
NPSH required (NPSHr)	: 7.8	m	Minimum	: N/A	mm	
Rated power	: 160	kw	Suction specific speed	: 743	Unit	
Maximum power	: N/A	kw	Minimum continuous flow	: 2268	m ³ /h	
Driver power	: 160 / 218	kw / hp	Maximum head @ rated dia	: 7.5	m	
Casing working pressure	: 1000	kPa.g	Flow at BEP	: 5544	m ³ /h	
Wight of pump	: 2890	kg	Flow as % of BEP	: 1.1	%	
Construction			Efficiency at normal flow	: 82.5	%	
Nozzles	Size	Rating pressure	facing	Impeller dia ratio (rated/max)	: N/A	%
Suction (mm)	800	N/A	under	Head rise to shut off	: N/A	%
Discharge (mm)	700	0.6	upper	Total head ratio (rated/max)	: N/A	%
Installation type	: Auto Dis Connect		Shop testing (customer to complete)			
Shaft seal type	: Double mechanical seal		Workshop Test		Witness Test	
Shaft seal lubricate	: Oil	Turbine #32	Performance test	: Y	Performance test	: N
Painting colour and Thickness	: Black	210 μ	Hydrolic test	: Y	Hydrolic test	: N
Motor over-load protector sensor	: PT100		NPSH test	: N	NPSH test	: N
Water leakaget sensor	: Float swtich		Noise test	: N	Noise test	: N
Bearing termal protector sensor	: PT100		Seal test	: Y	Seal test	: N
Mechancial seal leakage sensor	: Float switch		Shop inspection	: Y	Shop inspection	: N
Connection box Moisture sensor	: HM 1500		Recommdition spear parts			
Motor Driver (supplier to complete)			Glang packing or Mechanical seal	: 1	2 years	
Motor manufacture	: Tongke Flow		Impeller and casing wearing	: 1	3 years	
Duty rated power	: 160	kw	O-ring and Gasket	: 1	2 years	
Revolution speed	: 740	rpm	Impeller Nuts	: 1	2 years	
No. of Pole	: 8	pole	Shaft sleeve	: 1	5 years	
Voltage /Frenquence /Phase	: 380V/50Hz/3P		Shaft	: 1	5 years	
Drive type (Variable /Fixed)	: Fixed		Bearing supportor	: 1	5 years	
Frame standard	: IEC St.		Bearing	: 1	2 years	
Dirve orientation (CW or CCW from drive)	: CCW		Pump casing	: 1	10 years	
Satart mode (Direct /Deltal/Tansform)	: Detal Start					
NOTES: 1. Date sheet based on calculation .						
2. Where an item doesn't apply show N/A.						