

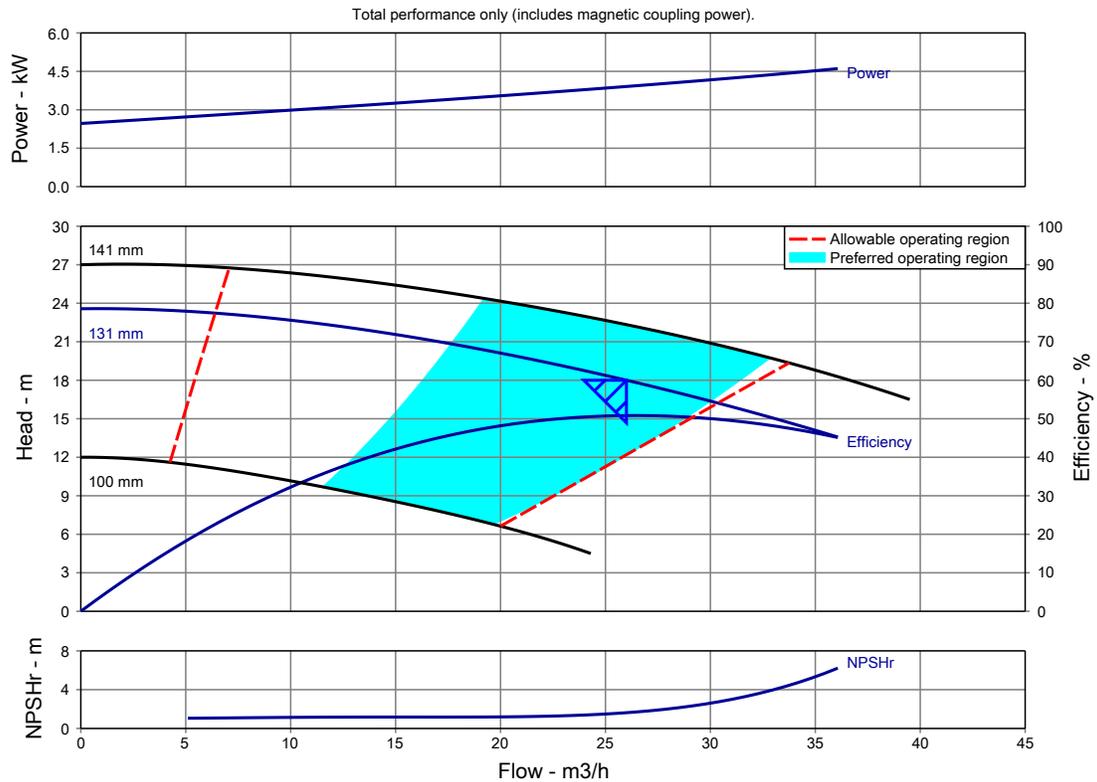


**Customer** : ETATRON UKRAINA  
 LLC  
**Reference** :

**Pump Performance Datasheet**  
 MPumps Selection System 24.4.1

Item number	: P-0601A/B	Size	: CN-MAG M 40-125 CC
Service	: INTERNAL REFRIGERATION CYCLE	Stages	: 1
Quantity	: 2	Based on curve number	: 10117
Quote number	: 32596	Date last saved	: 18 Dec 2024 11:02 AM

Operating Conditions		Liquid	
Flow, rated	: 26.00 m3/h	Liquid type	: Nitric Acid [98.00 %]
Differential head / pressure, rated (requested)	: 18.00 m	Additional liquid description	:
Differential head / pressure, rated (actual)	: 18.34 m	Solids diameter, max	: 0.00 mm
Suction pressure, rated / max	: 0.00 / 0.00 bar.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: 10.00 m	Temperature, max	: 0.00 deg C
Site Supply Frequency	: 50 Hz	Fluid density, rated / max	: 1,558.6 / 1,558.6 kg/m3
		Viscosity, rated	: 0.75 cSt
		Vapor pressure, rated	: 0.00 bar.a
Performance		Material	
Speed criteria	: Synchronous	Material selected	: See Construction Datasheet
Speed, rated	: 2900 rpm		
Impeller diameter, rated	: 131 mm	Pressure Data	
Impeller diameter, maximum	: 141 mm	Maximum working pressure	: 3.60 bar.g
Impeller diameter, minimum	: 100 mm	Maximum allowable working pressure	: 16.00 bar.g
Efficiency (total / pump)	: 50.83 / 66.47 %	Maximum allowable suction pressure	: N/A
NPSH required / margin required	: 1.63 / 0.00 m	Hydrostatic test pressure	: N/A
Ns (imp. eye flow) / Nss (imp. eye flow)	: 1,293 / 9,548 US Units	Driver & Power Data (@Max density)	
MCSF	: 6.33 m3/h	Driver sizing specification	: Rated power
Head, maximum, rated diameter	: 23.58 m	Margin over specification	: 0.00 %
Head rise to shutoff	: 30.95 %	Service factor	: 1.00
Flow, best eff. point	: 26.41 m3/h	Magnetic losses	: 0.92 kW
Flow ratio, rated / BEP	: 98.46 %	Power (total / pump)	: 3.91 / 2.99 kW
Diameter ratio (rated / max)	: 92.91 %	Power, maximum, rated diameter	: 4.61 kW
Head ratio (rated dia / max dia)	: 80.60 %	Minimum recommended motor rating	: 5.50 kW / 7.38 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		



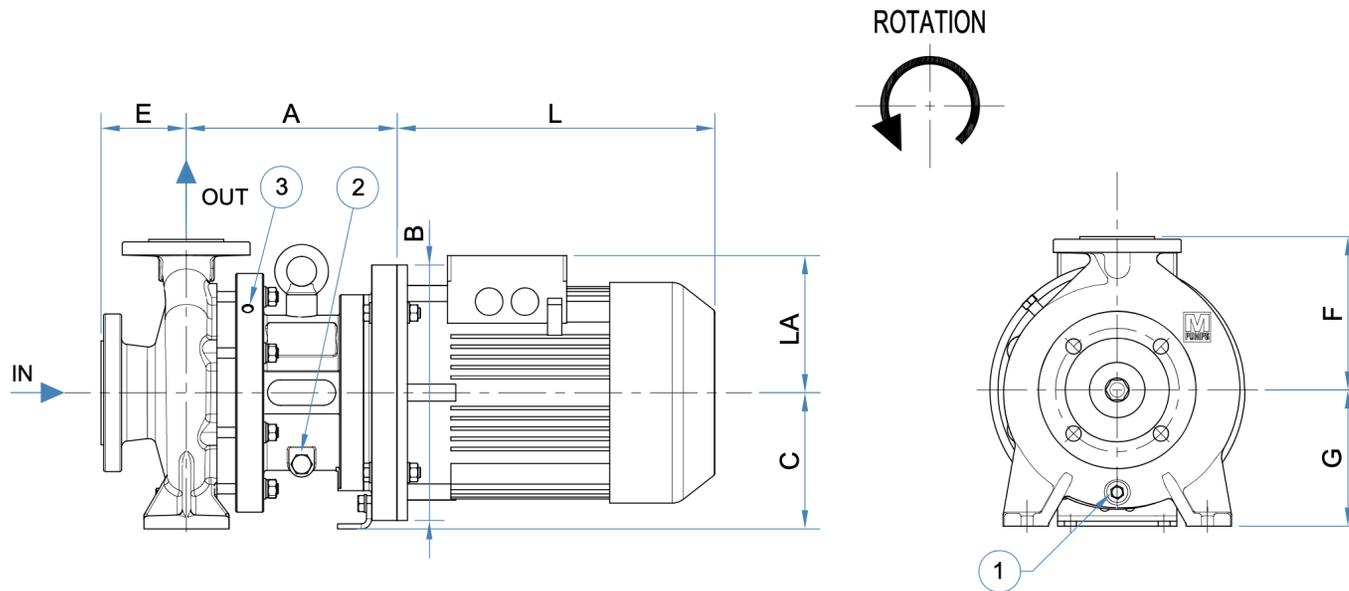


## Datasheet

Customer : ETATRON UKRAINA LLC	Quote Number : 32596
Customer Reference :	Project :
Item Number : P-0601A/B	Comply To : -
Service : INTERNAL REFRIGERATION CYCLE	ATEX : Atex zone 1 (2G)
Quantity of Pumps : 2	<b>Application Data</b>
<b>Pump Design</b>	Liquid Type: : Nitric Acid
Model : CN MAG-M Close Coupled	Operating Temp : 0.00 deg C
Type : CN-MAG M 40-125 CC	Viscosity : 0.75 cSt
Standard : ISO 2858/5199	Vapour Pressure : 0.00 bar.a
Rotation : Counterclockwise	Flow, rated : 26.00 m3/h
Max. Operating Pressure : 3.60 bar.a	Head : 18.00 m
MAWP : 16.00 bar.g	NPSHA : 10.00 m
Min. Continuous Flow : 6.33 m3/h	Suction Pressure : 0.00 bar.g
NPSHR : 1.63 m	Solid Diameter : 0.00 mm
Hydraulic Efficiency : 50.83 %	Solid Volume : 0.00 %
Rated Power : 5.50 kW	Density Rated : 1.559 kg/m3
Magnetic Coupling Type : B1-B1	Design Pressure : PN 16
Impeller Rated* : 130 mm	Design Temperature : -40°C to 120°C
Pump Speed : 2900 rpm	<b>Driver Information</b>
Connections : Din PN 16 Flanged (Standard)	Brand : WEG
<b>Nozzle</b>	Power : 5.50 kW
<b>Standard</b>	Power Supply : 400 V
<b>Size</b>	Frequency : 50 Hz
<b>Rating</b>	RPM : 2900 rpm
<b>Face</b>	Enclosure : TEFC
<b>Position</b>	Frame Size : 132
Suction EN 1092-1 DN 65 PN 16 Type B End	Construction : B5
Discharge EN 1092-1 DN 40 PN 16 Type B Top	Type : Three-Phase Motor (Standard)
<b>Materials</b>	Protection : IP55
xxx : Pump Casing : CF8M (Standard)	Efficiency : IE3 (Std from 0.75 kW)
xxx : Impeller : CF8M (Standard)	Note : -
xxx : Shaft Support : CF8M (Standard)	<b>Weight</b>
xxx : Pump Bracket : ASTM WCB A216 (Standard)	Pump : 53.00 kg
xxx : Shaft : DUPLEX 22% (Standard)	Base : -1.00 kg
xxx : Tolerance Ring : AISI 301 (Standard)	Motor : -1.00 kg
xxx : Bushing/Sleeve/Thrust Bearings : Sic / Sic - Sic	Total : 51.00 kg
xxx : Gaskets : PTFE (Standard)	<b>Painting Specification</b>
xxx : Containment Shell : Hybrid CF-HC	Color/Specifications : C4 HIGH RAL 5015 on no-inox surface - ISO 12944:2018 (Std)
xxx : Internal Magnet : NdFeB	Note : -
xxx : External Magnet : NdFeb	
<b>Jacket</b>	
Casing/Shaft support/Bracket : No/No/No	
Jacket Design Pressure : -	
<b>Baseplate Coupling Guard</b>	
Baseplate Type : No Baseplate	
Baseplate Material : Standard	

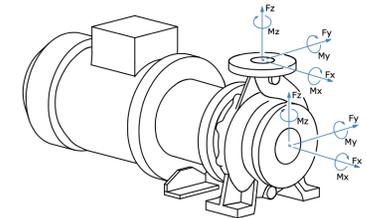
Pump size and type : CN-MAG M 40-125 CC  
 Item number : P-0601A/B  
 Customer : ETATRON UKRAINA LLC  
 ATEX : ATEX zone 1 (2G)

Weight (kg)  
 Pump : 53.00 kg  
 Motor : -1.00 kg

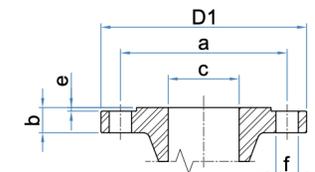


Dimension (mm)					
A	245	P	160		
E	80	Q	70		
C	154	D	226		
L	-1	R	110		
LA	-1	K	158.5		
B	300	S	14		
G	112	T	14		
F	140				

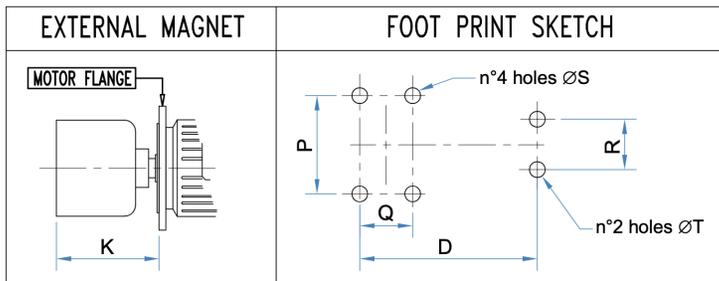
Strenght (N-m)					
SF					
Fx	Fy	Fz	Mx	My	Mz
1,512	1,332	1,224	1,080	792	864
DF					
Fx	Fy	Fz	Mx	My	Mz
792	720	900	936	648	756



Flanges			
Suction (mm)		Discharge (mm)	
DN	DN 65	DN	DN 40
N. Holes	4	N. Holes	4
D1	185	D1	150
a	145	a	110
c	65	c	40
f	18	f	18
e	3	e	3
b	18	b	18



Plug and Port  
 N.1 Pump Casing Drain Plug: 1/4" NPT Male  
 N.2 Bracket Plug: 3/8" BSPP Male  
 N.3 PT100 Port: 1/4" NPT Female



Quote number :  
 Item number : P-0601A/B  
 Service : INTERNAL REFRIGERATION

Pump speed : 2900 rpm  
 Flow : 26.00 m3/h  
 Head : 18.00 m

Frequency : 50 Hz  
 Coupling Size : B1-B1  
 Magnet Material : NdFeB-NdFeb