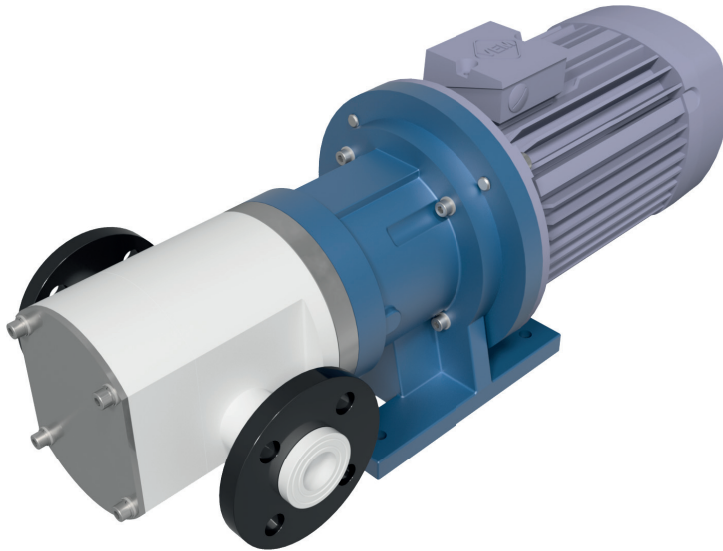


MAGNETICALLY COUPLED, NON-METALLIC GEAR PUMPS

Series TEF-MAG®

TEF-MAG 3501



TECHNICAL DATA

Nominal speed:	1450 1/min (50Hz) 1750 1/min (60Hz)
Nominal flow:	3750 l/h (990 us gph) 4650 l/h (1228 us gph)
Differential pressure, max.:	10 bar (145 psi)
Design pressure:	PN 16 bar (232 psi)
Temperature, max.:	65°C (149°F)
Density, max.:	1,9 kg/dm ³
Viscosity, max.:	5000 cP
NPSHR:	0,5 m
Drive power:	2,2 ... 4,0 kW

APPLICATIONS

The pumps have proven their performance in every application that requires lower flow rates and high discharge pressures in combination with corrosive liquids and pulsation-free supplies.

Typical Applications:

- Metering corrosive catalysts in Biodiesel Plants
- Waste Water Treatment, neutralisation, flocculation
- Environment Engineering
- Metering Applications
- Plant Engineering
- Equipment Engineering
- Pharmaceutical-, Medical-, Bio- Engineering

CONNECTIONS

Threaded:	G1 1/4" female
Flanged:	DN32 PN10/16 ANSI 1 1/4"

MATERIALS

Housings: PP, PE, PVC, PVDF, PEEK
O-Rings: EPDM, Viton, Kalrez
Shafts: Al₂O₃ >99%, SSiC
Gears: PTFEC, PVDF, PEEK
Bearings: PTFEC, Graphite, PEEK, SSiC

FDA compliant materials are available upon request.

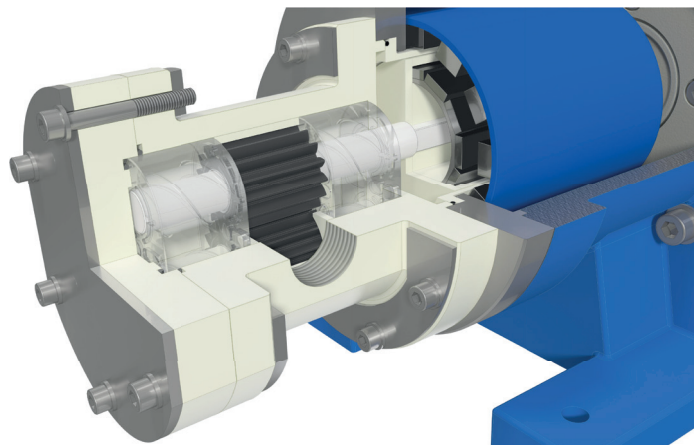
FEATURES AND BENEFITS

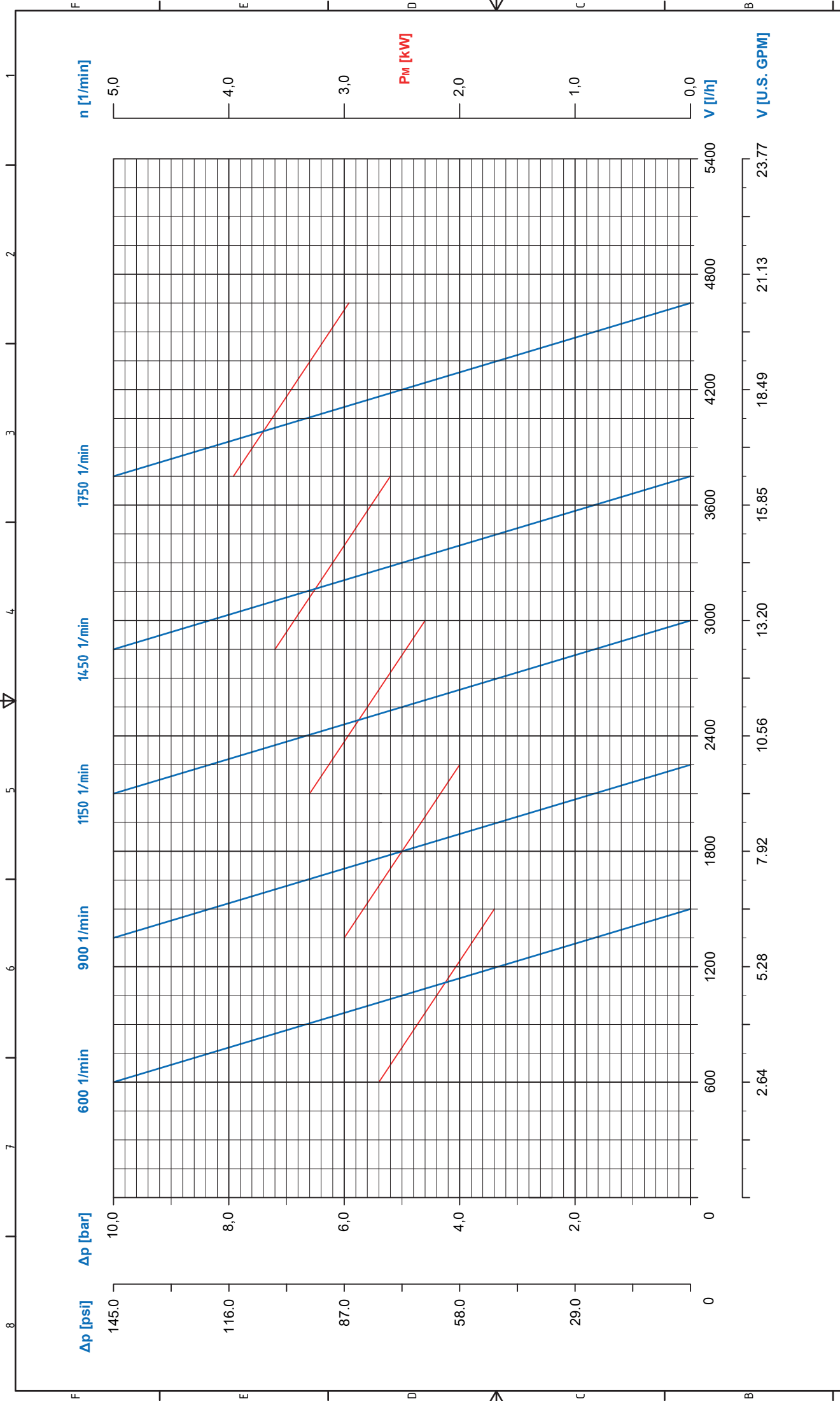
- European Patent No. 3786416
- USA Patent No. US 10,189,005 B2
- No need in expensive high alloys like Duplex, Hastelloy C or Titanium
- Rotary positive displacement pump
- External gear pump
- Nearby pulsation free
- Leak-free
- Magnetically coupled
- Low NPSHR-value
- Designed for Industrial Heavy Duty
- Corrosion resistant
- Self-priming (wet)
- Dry-run capable
- Small and compact design
- High discharge pressures
- Low flow rates
- Integrated Variable Frequency Drive (available on request)
- Pump acc. to ATEX 2014/34/EU

PRODUCT DESCRIPTION

MARCH Series TEF-MAG® gear pumps are chemical resistant, non-metallic, rotating positive displacement pumps, external gear type and magnetically coupled. TEF-MAG® gear pumps generate low volumetric flows with middle to high differential pressures and approximately no pulsation. The pump housings are machined from chemical resistant solid block polymers like PP, PE, PVC, PVDF or PEEK. The internal hydraulic parts like gears and shafts are also made of highly corrosion resistant non-metallic materials. The power transmission of drive and pump happens in a contactless way with strong NdFeB permanent magnets. So the pump is able to work without any mechanical shaft seals, which guarantees save supplies without any leakage of corrosive, toxic and explosive fluids.

Pumps for potentially explosive ATEX Zones 1 or 2, are available in non-metallic materials

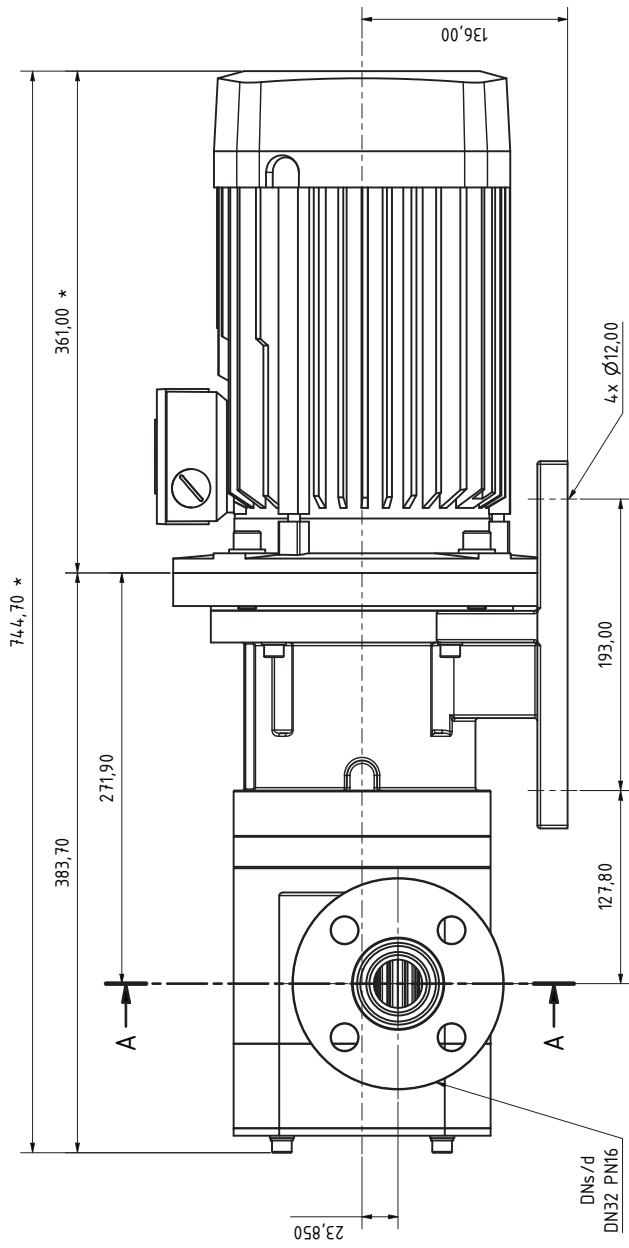
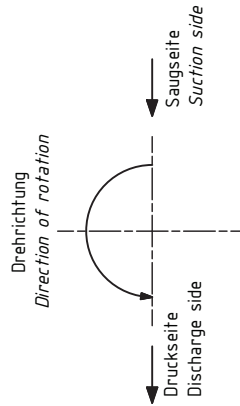
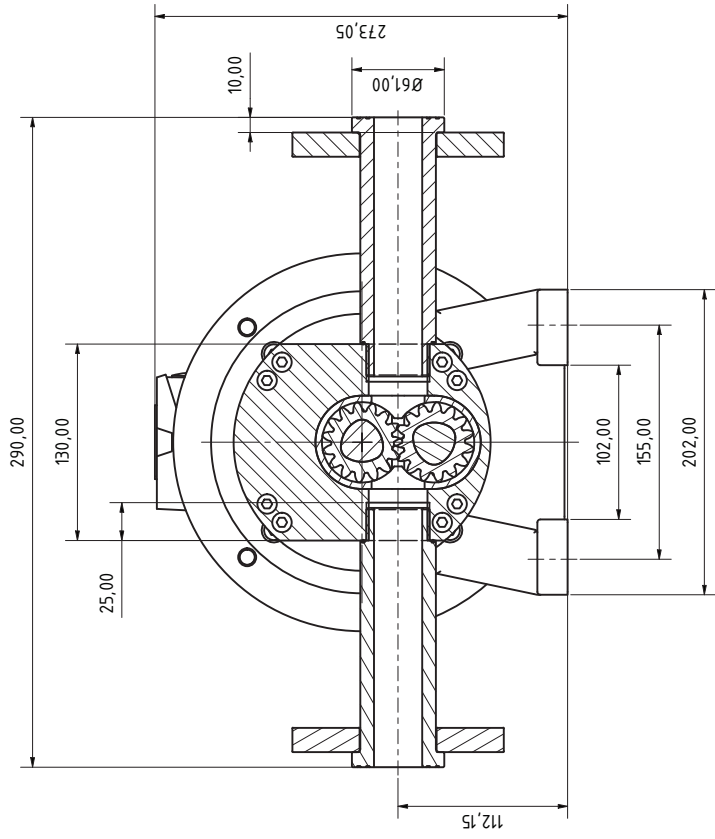




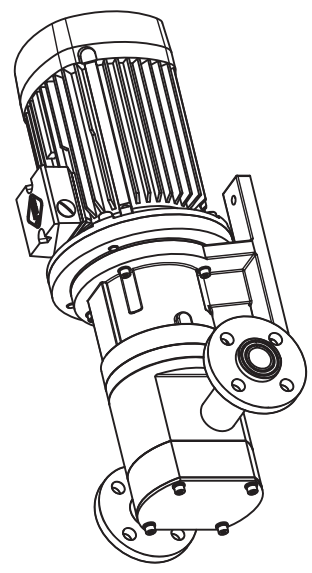
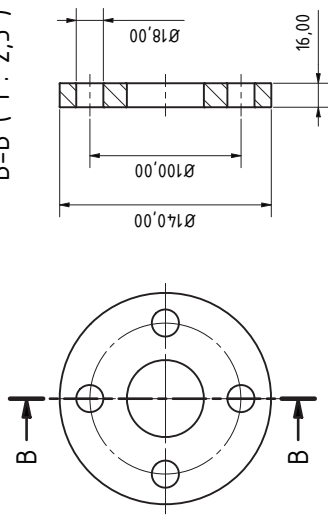
KENNLINIEN / PERFORMANCE CURVES

Series	TEF-MAG	
Pump Size	TEF-MAG 3501	
Motor Power	3,0kW / 3,0kW	3,0kW / 4,0kW
Speed	750 / 900 1/min	900 / 1150 1/min
Fluid Viscosity	1 mm ² /s	Fluid Density
		14,50 / 1750 1/min
		1 kg/dm ³

A-A (1 : 2,5)



B-B (1 : 2,5)



D ANSCHLÜSSE
 Losflansch DN32 PN10/16
 Alternativ - Gewinde G1 1/4" BSP Innengewinde
 Saug- und Druckseite abhängig von Drehrichtung.
 Pumpe kann reversibel eingesetzt werden.
 Beispiel unter Schnitt A-A.

CONNECTIONS
 Lap Joint Flanges DN32 PN10/16
 Alternative - Threaded G1 1/4" (f)
 Suction and discharge side depends on direction of rotation.
 Pump is reversible.
 See example under section view A-A.

E ANTRIEB
 Drehstrom-Asynchronmotor mit Käfigläufer
 Fabrikat: VEM
 Typ: IE3-W4/R 112 MV6

DRIVE
 TEFC three phase asynchronous squirrel cage electric motor
 Manufacturer: VEM
 Type: IE3-W4/R 112 MV6

ABMESSUNGEN
 * kann bei anderen Motorfabrikaten abweichen
 Abmessungen in mm (Zoll)

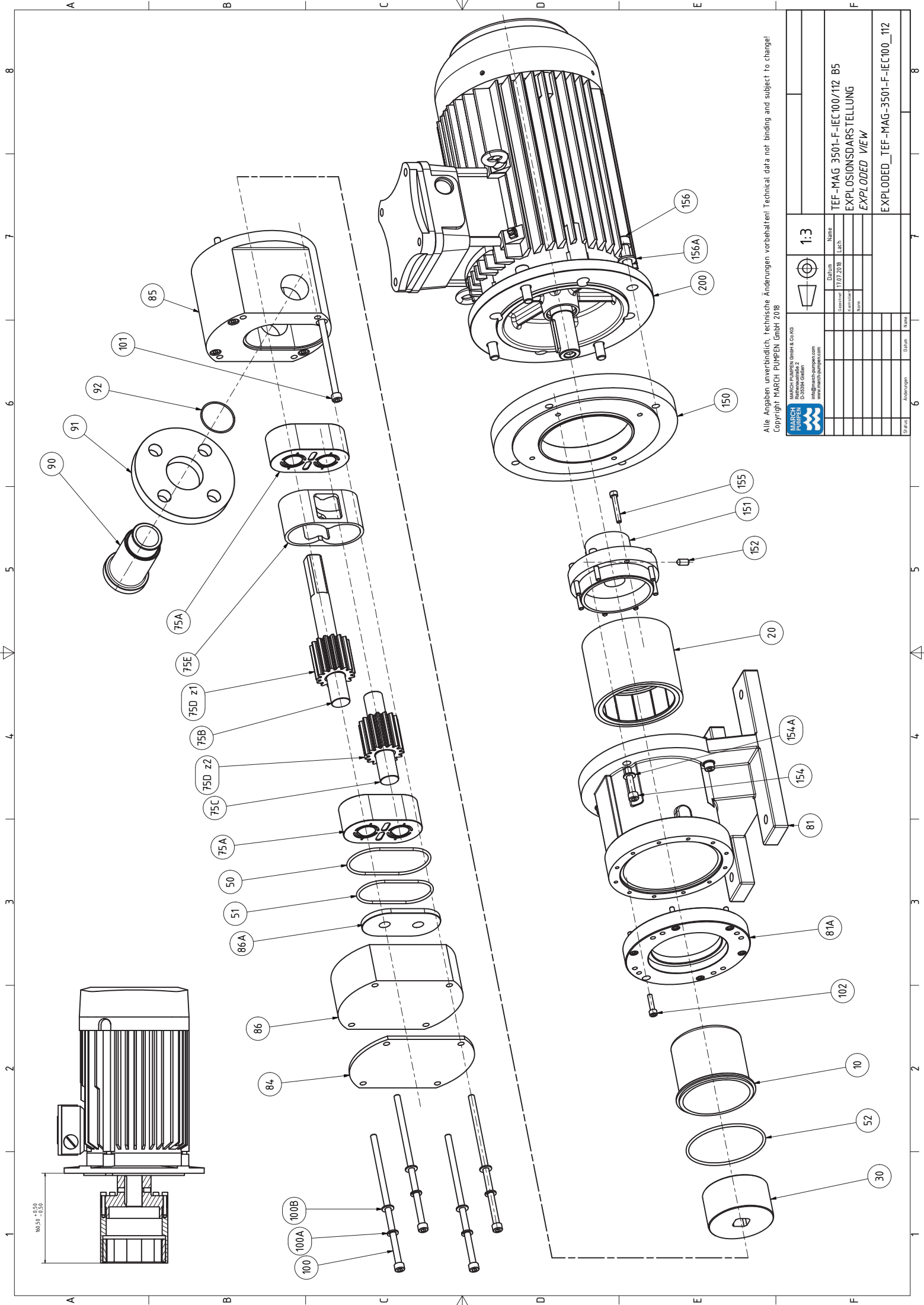
DIMENSIONS
 * may change with different motor manufacturer
 Dimensions in mm (inch)

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 www.march-pumpen.com

1:2,5		Name	
Datum		TEF-MAG 3501 P-F-H IEC112	
Zeichnung		ABMESSUNGEN	
Licht		DIMENSIONS	
Version		DPTM-3501-P-F-H-112-VEM	
Name		Name	
Datum		Datum	
Änderungen		Änderungen	
Blatt		Blatt	



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1:3		Name	
Datum		Licht	
Zeichner		Gezeichnet	
Korrigent		Name	
Blatt Nr.		Blatt	
Änderungen		Datum	
Name		Name	
TEF-MAG 3501-F-IEC100/112 B5			
EXPLOSIONSDARSTELLUNG			
EXPLODED VIEW			
EXPLODED_TEF-MAG-3501-F-IEC100_112			