BELL-HOUSING & COUPLING SIZING

A GUIDE TO SELECT THE CORRECT BELL-HOUSING AND DRIVE COUPLING

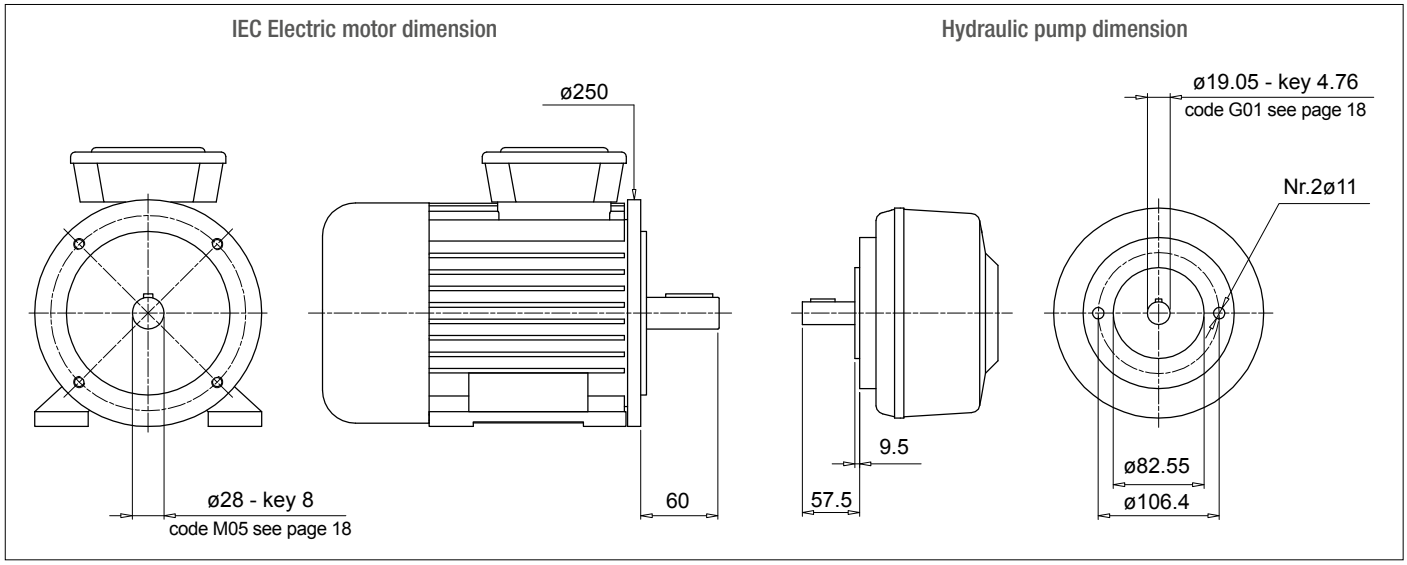
DATA REQUIRED

- Electric motor power/motor size
- Manufacturer and pump type

TO VERIFY:

1 - Pump and motor shaft dimensions (see electric motor data sheet)
2 - Shaft and flange pump (see pump data sheet)

Example:
- Electric motor 2.2 kW - size 100-112
- Atos pump code PFE31 - Shaft 1



Bell-Housing's length calculation

- H = 60 + 18 + 57.5 = 135.5 mm (18 = Sp spider - see page 31)

- Choose type of bell-housing (LMC - LMS):
  For monobloc bell-housing LMC/LDC series see pages 63 ÷ 69
  For Low noise bell-housing LMS/LDS series see pages 71 ÷ 77
  For Multi-components 2-3 bell hosuing series see pages 79 ÷ 99

Note:
The length of bell-housing must be ≥ than the length calculated (135.5 mm)

Case A
Solution with monobloc bell-housing series **LMC/LDC**

Pages 63 ÷ 69 for IEC Electric motor size 100-112 - LMC250

LMC 250 bell-housing with height ≥ 135.5 - LMC250AFSQ

The bell-housing code must be completed with drilling pump code (see pages 48-49).
For the specific case:
Spigot hole 82.55 - PCD 106.4 - Nr.2 holes M10 : Drilling code 060

Definitive bell-housing code **LMC250AFSQ060**

Case B
Solution with low noise bell-housing series **LMS/LDS**

Pages 71 ÷ 77 for IEC Electric motor size 100-112 - LMS250

LMS 250 bell-housing with heigh ≥ 135.5 - LMS250AFSA

The bell-housing code must be completed with drilling pump code (see pages 48-49).
For the specific case:
Spigot hole 82.55 - PCD 106.4 - Nr.2 holes M10 : Drilling code 060

Definitive bell-housing code **LMS250AFSA060**

Coupling selection

Motor half-coupling (see page 26)
For IEC Electric motor size 100/112, the half-coupling is **SGEA21M05060FG**

Spider (see page 31)
For SGEA21, EGE2 - EGE2RR
(choose spider material on the base of the application, oil, temperature and cycle machine, etc.)

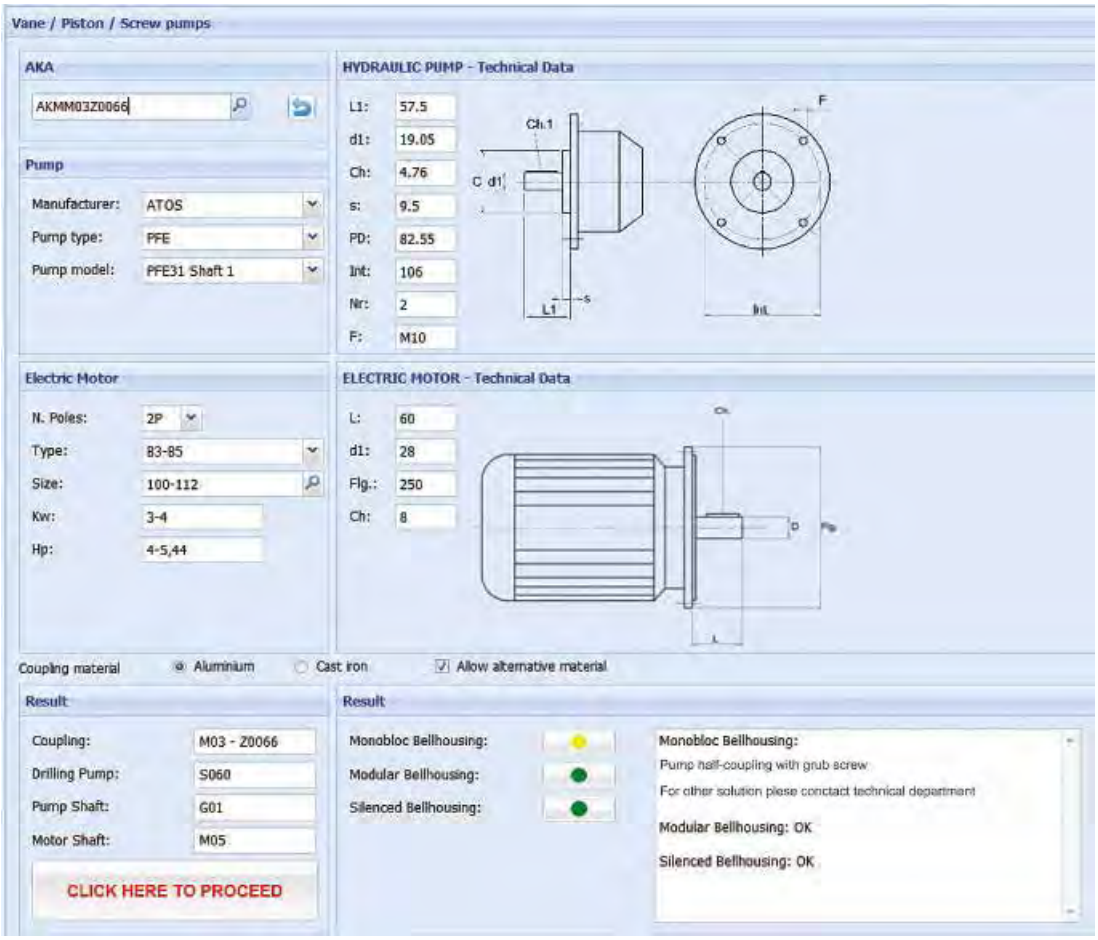
Pump half-coupling
Choose the drilling code - see pages 18-19 for shaft 19.05 - key 4.76 - code: **G01**

Pump half-coupling length = BH length - THK Spider - THK Spigot
LMC = 138 mm - 60 - 18 - 9.5 = 50.5 mm
LMS = 148 mm - 60 - 18 - 9.5 = 60.5 mm

LMC - Choose the half-coupling's length at page 26 ≤ 50.5 mm.
LMS - Choose the half-coupling's length at page 26 ≤ 60.5 mm.
LMC - Availabe length for SGEA21 = 50 mm
LMS - Availabe length for SGEA21 = 60 mm
Half coupling for LMC: **SGEA21G01050FG**
Half coupling for LMS: **SGEA21G01050FG**

SOFTWARE FOR AUTOMATIC CALCULATION

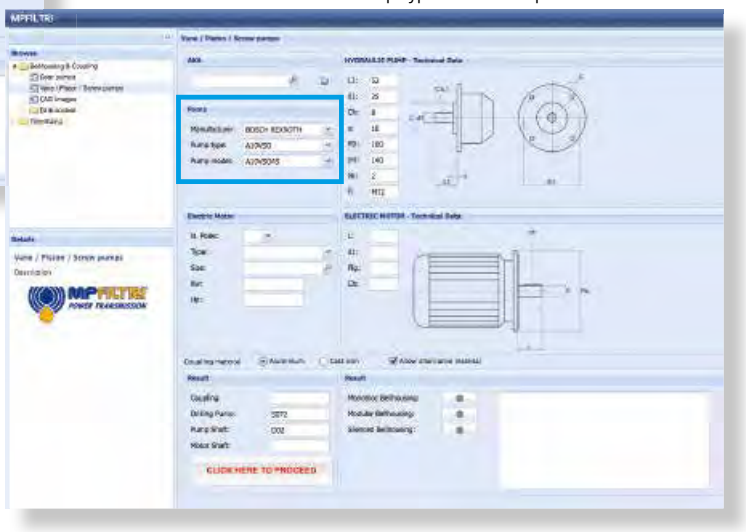
available on the web site www.mpfiltri.com



Note: for multi pumps we recommend to use a specific support on the base of the pump's dimensions and weight.

Step 1 Select “BELL-HOUSING & COUPLING”

Step 2 Choose Manufacturer:
select “Pump type” and “Pump model”

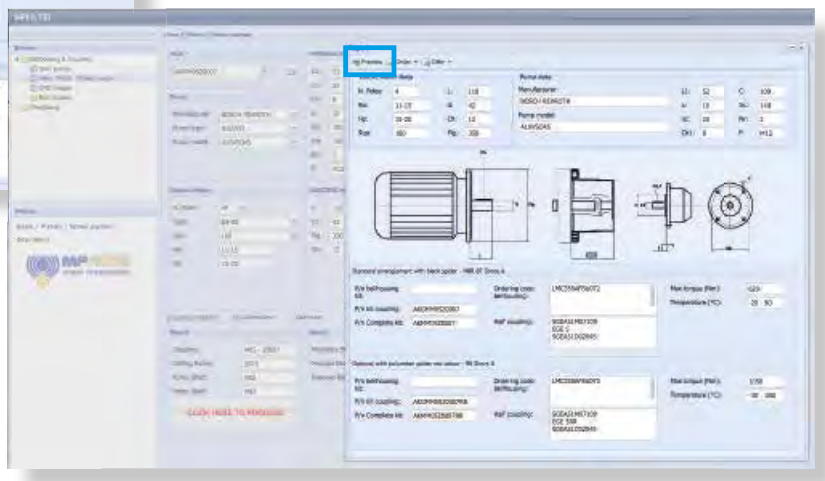


Step 3 Choose nr° of poles of “Electric motors”:
select “Electric motors type” and “Electric motors size”

Step 4 Choose Coupling material

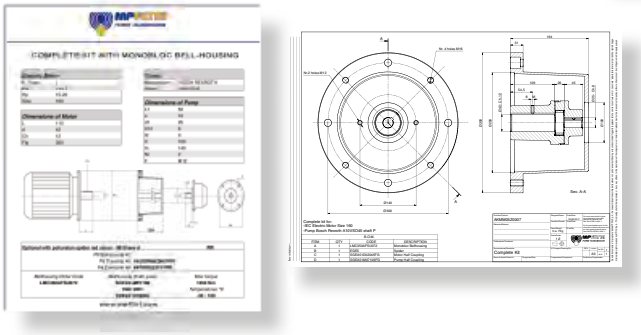
Step 5 Push "**CLICK HERE TO PROCEED**", then choose best solution for your application.

Step 6 Push "**PREVIEW**" to download the reports.

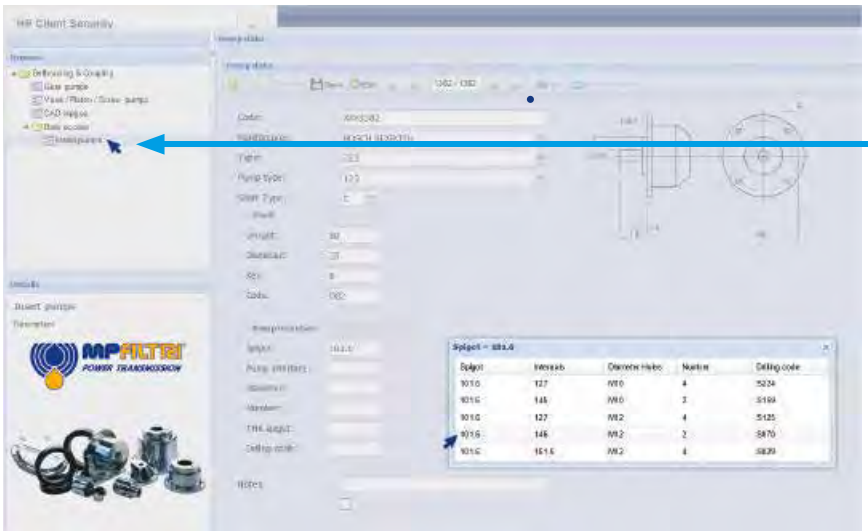


Step 7

Download PDF Datasheet "DXF Drawing" of your selection



You can't find the pump on the system?



NEW FEATURE!!

Insert pump's dimension on the section "INSERT PUMP" and follow the instructions to achieve the couplings components code