# NEW ENGINE PROJECT AIR STARTER SPECIFICATION DATA SHEET



- **Customer**
- **Project**

## A) ENGINE DATA

### 1. General data

Maker
Model
Bore (mm)
Stroke (mm)
Number of cylinders
Power (at rated speed) (kW)
Rated speed (rpm)
Compression ratio
Type (Inline, Vee)
Sense of rotation (CW/CCW)
(engine - viewed from flywheel end)
Sense of rotation (CW/CCW)
(starter - viewed from pinion end)
Ignition speed (rpm)
Starter declutching speed (rpm)
Moment of inertia ($kg \cdot m^2$)
(engine + auxiliary equipment)
Breakaway torque (N·m)
Fuel system (diesel, NG, DF)
FMEP (friction mean eff. pressure) (MPa)
Polytropic index during start
Lubrication oil temp. at start (ºC)

### 2. Starter installation method

☐ COUPLING FLANGE SAE J542
Specify type (1, 2, 3, 4 or 5):
☐ BRACKET (drawing required)
☐ CRADLE (drawing required)

### 3. Ring gear data

Number of teeth
Normal modul or DP
Pressure angle (º)
Addendum correction coeff
Tip diameter (mm)
Root diameter (mm)
Base tangent over 'K' teeth (mm)
Number of measured teeth (K)
Teeth surface hardness (HRc)
Teeth chamfer (yes/no)
Starter center distance (mm)
(maybe not defined completely)

## B) APPLICATION DATA

### 1. Intended application

☐ MARINE
☐ PROPULSION
☐ GENSET
☐ POWER PLANT GENSET
☐ OFF-SHORE

### 2. Starting requirements

MINIMUM STARTING ATTEMPTS
(Consecutive, for engine homologation)
AVAILABLE TANK CAPACITY ($m^3$)
AVAILABLE MAX. TANK PRESSURE (MPa)

### 3. Special starting requirements

☐ SLOW TURN START (GAS ENGINES)
Number of engine turns
Duration (sec)
Speed (rpm)
☐ CRANKING START
Number of engine turns
Duration (sec)
Speed (rpm)
☐ OTHERS (specify)

### 5. Certification requierements

Please specify

## C) OTHER REQUIREMENTS

☐ ENGINE 3D MODEL (starter side sorrounding + ring gear)
☐ ENGINE SPECIFICATION SHEET
☐ RING GEAR DRAWING (with teeth data and tooth chamfer details)
☐ OTHER STARTER SPECIFICATION (if any)