



Company: _____

Contact: _____

Phone: _____

Fax.: _____

email: _____

Date: _____

Quotation-No.: _____

Order-No.: _____

The table lists the questions which must be answered in order to design the gear unit in accordance with the explosion protection directive 2014/34/EU (ATEX).		
Questions	Customers information	
Which category?		2 or 3
Which Ex-atmosphere?		G: Gas or D: Dust or G/D: Gas and dust
Which zone?		1, 2, (for gas) or 21 (for dust), 22 (for dust not conductive)
Is surrounding atmosphere conductive dust with spez. Electric resistance of $p \leq 10^3 \Omega$. A work equipment category II2D has to be used		22 (for dust conductive)
Alternative to category/atmosphere and zone; Note the EPL:		Gb group: II category: 2G zone: 1 Gc group: II category: 3G zone: 2 Db group: III category: 3D zone: 21 Dc group: III category: 3D zone: 22
In zone 1 type of protection is specified as		Flameproof enclosure: „db“, increased security: „eb“ or motor „db“ and terminal box: „eb“:
Only for flameproof enclosure		IIA, IIB, IIC for gases IIIA, IIIB, IIIC for dusts
What class of temperature (for gas „G“)? Max. surface temperature (for dust „D“)?		T1 (450°C), T2 (300°C), T3 (200°C), T4 (135°C) for gases 120°C for dusts
Ambient temperature?		-20°C bis 40°C
Sight glass for oil? Indication of accessible side		Control by operator.
Control of temperature?		During commissioning, temperature measurement by the operator and indirectly via power-measurement on the motor by operation (voltage and current measurement and monitoring).
Operation with Frequency Inverter		Square moment 5-50 Hz
		Constant moment 10-50 Hz
		Constant moment 5-50-87 Hz



In below table the technical data are listed which are necessary for calculating the max. temperature that may occur on drive		
Questions		Information from customer
Typ	-	
Mounting position	-	
Requested protection	-	
Ratio	-	
Max. Input power	[kW]	
Min. Input power	[kW]	
Max. Input speed	[rpm]	
Min. Input speed	[rpm]	
Max. Output speed	[rpm]	
Min. Output speed	[rpm]	
Output torque at min. output speed	[Nm]	
Output torque at max. output speed	[Nm]	
Effective radial force with exact point of application at the output shaft	[N]	
Effective axial force on the output shaft	[N]	
Moment of inertia to be driven	[kgm ²]	
Mode of operation	-	
Starts and stops	[1/h]	
Power frequency	[Hz]	
Operating voltage	[V]	
<p>By installing the gear unit in the system, it must be ensured that the gearboxes do not come into contact with media which are released from the process and which endanger operational safety. The customer must provide all relevant information for this purpose.</p>		