

**PROJECT-RELATED INFORMATION ABOUT REQUIRED EXPLOSION-PROTECTED EQUIPMENT**

Please appoint your ATEX requirements to Elektror by means of using the questionnaire below.

We thank you very much for your completely filled in data.

Project No.:	Customer:	Name / department:	Date:
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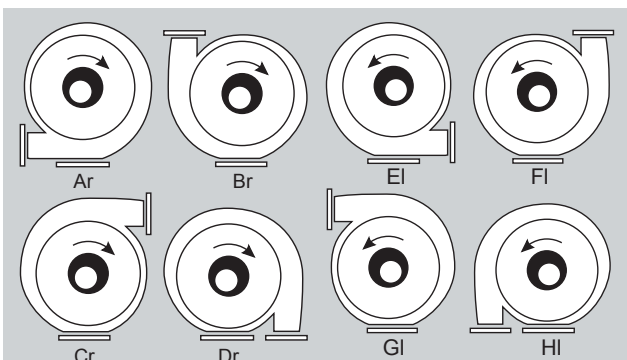
1.	<b>Are ignitable / flammable substances present (gases, vapours, mists, dusts)?</b> (That is, is explosive atmosphere present?)	YES	NO
1.1	If <b>YES</b> , does the owner/system manufacturer have a <b>zone definition</b> for the areas with potentially explosive atmospheres? What is its (complete) definition? If <b>NO</b> , the owner/system manufacturer first needs to determine and describe the zones. <b>Note:</b> <i>Elektror delivers exclusively ATEX products for the explosion group II. Therewith no applications of mining or underground operations can be realized.</i>	YES	NO
		<b>If YES, please include complete copy here:</b>	
1.1.1	<b>For gases, vapours, mists:</b> In which <b>zone</b> do you plan to install and operate the equipment? Is the same <b>zone present inside and outside the unit or do they differ?</b> <i>Please note: Elektror cannot offer equipment/units for zone 0.</i>	<b>INSIDE:</b> Zone 1 Zone 2	<b>OUTSIDE:</b> Zone 1 Zone 2
1.1.2	<b>For dusts:</b> In which <b>zone</b> do you plan to install and operate the equipment? Is the <b>same zone present inside and outside the unit or do they differ?</b> <i>Please note: Elektror cannot offer equipment/units for zone 20 and 21.</i>	<b>INSIDE:</b> Zone 22	<b>OUTSIDE:</b> Zone 22
1.1.3	<b>For dusts:</b> Is the dust electrically <b>conductive</b> or <b>non-conductive</b> ?	The dust is electrically conductive The dust is not electrically conductive	
1.2	<b>Maximum temperatures</b>		
1.2.1	<b>For gases, vapours, mists:</b> Which temperature class is required? The applicable regulations for determination of the max. admissible surface temperature for ignitable dust clouds and static dust layers shall be observed. See IEC 61241-2-1.	T3: max. 200 °C	T4: max 135 °C
		Refers to max. admissible surface temperature.	
1.2.2.	<b>For dust:</b> Which <b>temperature class</b> is required? The applicable <b>regulations for determination</b> of the max. admissible surface temperature for ignitable <b>dust clouds</b> and <b>static dust layers</b> shall be observed. <b>See IEC 61241-2-1.</b>	Dust cloud "procedure B"	°C
		Static dust layer "procedure A"	°C

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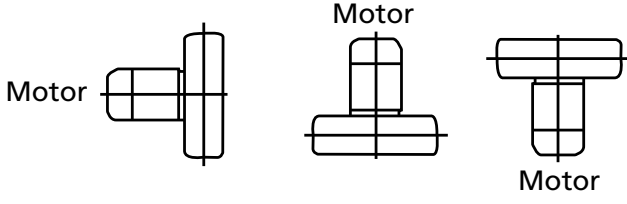
1.2.3	What is the <b>maximum ambient temperature</b> ? Admissible range of the ambient temperature: min. -20 °C to max. 40 °C.	°C
1.2.4	What is the <b>maximum temperature</b> of the <b>medium</b> ? Admissible temperature of the medium on the intake end: min. -20 °C to max. 40 °C.	°C
1.2.5	What is the <b>relative humidity</b> at the designated place of operation? What is the <b>height above sea level</b> of the designated place of operation?	% r.F.  meters above see level
1.3	<b>Ignition sub-group (required information for motors of EEx)</b>	
1.3.1	Which <b>ignition sub-group</b> is required? DIN EN 60079-0 (VDE 0170-1) <i>II C deliverable in individual cases. Please contact our Product Management.</i>	II A  II B
2.0	<b>Installation types</b>	
2.1	Which installation type is required?? <b>Installation type B:</b> Zone inside = zone outside, free intake, permanent connection on pressure end <b>Installation type C:</b> Zone inside = zone outside, permanent connection on intake end, free blow-out on pressure end <b>Installation type D, not sealed:</b> Zone inside = zone outside, permanent connection on intake and pressure end, not sealed <b>Installation type D, sealed:</b> Zone inside ≠ zone outside, permanent connection on intake and pressure end, sealed <b>Please note: If the unit is sealed, the maximum zone difference between inside and outside is 1 zone!</b>	Installation type B, not sealed  Installation type C, not sealed  Installation type D, not sealed  Installation type D, sealed
2.2	Which <b>installation position</b> is required? 	Ar                      EI Br                      FI Cr                      GI Dr                      HI  <i>Please see the notes in our brochures available from <a href="http://www.elektror.com">www.elektror.com</a></i>

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2.2	Space for additional notes concerning the installation position:		
2.3	<p>Which <b>shaft-motor position</b> is required?</p>  <p>Motor      Motor      Motor</p>	Space for additional notes:	
2.4	Operation with frequency converter	YES	NO
3.0	<b>Materials data</b>		
3.1	<p>Are abrasive, adhesive, corrosive, oxidizing, reducing or otherwise aggressive substances contained in the medium or in the surroundings? These may include non-ignitable substances. If <b>YES</b>, please describe these as detailed as possible. E.g. include the material data sheets.</p>	YES	NO
		Space for additional notes:	
4.0	<b>Operating point</b>		
4.1	<p>Please tell us the working point or the Elektror-type of the blower.</p> <p>In case you are using a pressure/vacuum side connection, please mark both boxes.</p>	<p>Volumetric flow rate: <span style="float: right;">m<sup>3</sup>/min</span>  <b>Please consider the unit</b> <span style="color: red;">↗</span></p> <p>Static pressure rise: <span style="float: right;">Pa</span>  <b>Please consider the unit</b> <span style="color: red;">↗</span></p> <p>Connection type:    pressure side    vacuum side</p> <p>Type of Elektror blower:</p>	
5.0	<b>Quantity</b>		
		Pieces per year:	
		Pieces for project:	
6.0	<b>Area validation</b>		
6.1	Is an operation of the Elektror product intended in a country abroad of the E.U.?	Please name the country:	

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**Notes:**

- Please address your ATEX inquiry directly to our Product Management,  
Phone: **+49 711-31973-1111**  
Fax.: **+49 711-31973-116**  
or via e-mail to **support@elektror.com**.
- Please determine, define and indicate the ATEX zones, categories, types of ignition protection, temperature classes, ignition sub-groups, etc. and inform Elektror about everything. Please kindly understand that we are not authorized to take over the determination of operating condition data. Thank you very much for your accommodation.
- This project-related information provided by the customer primarily addresses the explosion protection aspects. Please add other information relevant for your inquiry, e. g. concerning the technical performance data. Tips concerning these are found in our brochures. Please also consider the ATEX-Help document under **www.elektror.com**.

**Your personal data:**

Company: \_\_\_\_\_

First name, Name: \_\_\_\_\_

Department: \_\_\_\_\_

Postal zip code / City: \_\_\_\_\_

Country: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-Mail: \_\_\_\_\_