

Hazardous-area application data sheet

Please complete as much as you can. This sheet is used for a preliminary technical assessment. It is not a quotation and does not confirm that a motor is suitable for your installation. Suitability for a hazardous area can only be confirmed against valid certificates and the final installation data.

Fill in the fields on screen, save the file and send it to info@purexmotion.com. Items you leave open are discussed with you.

A. Company and project

Company / country			
Contact name and function			
Email / phone			
Machine or system, and application For example coating line, solvent dosing, filling, web handling, robot, special automation			
Project stage	☐ Concept ☐ Prototype ☐ Series production ☐ Retrofit / replacement		
Estimated annual quantity			

B. Hazardous-area data

The eight parameters

1. Country of final installation			
2. Atmosphere	☐ Gas / vapour ☐ Dust ☐ Both Substance name(s) 		
3. Area classification	Gas ☐ Zone 0 ☐ Zone 1 ☐ Zone 2 Dust ☐ Zone 20 ☐ Zone 21 ☐ Zone 22 ☐ Class / Division (North America), see the quick fit check		
4. Group	Gas ☐ IIA ☐ IIB ☐ IIC Dust ☐ IIIA ☐ IIIB ☐ IIIC		
5. Temperature requirement	Required class ☐ T1 ☐ T2 ☐ T3 ☐ T4 ☐ T5 ☐ T6 or maximum surface temperature (°C) Auto-ignition temperature of the substance (°C) 		
6. Ambient and environment	Ambient min (°C) Ambient max (°C) Altitude (m) IP requirement Washdown, aggressive chemicals, vibration 		

Ex certification of the DX series in the name of AUREX MOTION SYSTEMS PTE. LTD. is in progress. The Ex marking shown for the DX series is the target marking and applies only once the corresponding certificates have been issued. DX motors are not released for hazardous-area use until then. Data in this document is preliminary and subject to change. Where a nameplate or certificate differs, the nameplate or certificate prevails. Product images are renderings.

7. Motion duty

Continuous torque (N·m)	Peak torque (N·m)	Load inertia (kg·m²)
Rated speed (rpm)	Maximum speed (rpm)	Mounting orientation
Duty cycle or motion profile		
☐ Holding brake required		
Radial and axial shaft load (N)		

8. Drive and feedback

Drive brand and model	Supply voltage (V)
Feedback ☐ Resolver ☐ Absolute multiturn ☐ Other	
Cable entry and connection requirement	

C. Motor currently used

Brand and model	
Ex marking and certificate	
Rated torque / speed / flange	
Reason for looking at an alternative	☐ Lead time ☐ Price ☐ Second source ☐ Technical limitation ☐ Other

D. Documents and samples

Documents required	☐ EU-type examination certificate ☐ IECEx CoC ☐ Declaration of conformity
	☐ Dimension drawing ☐ Manual ☐ Other
Evaluation sample	Quantity Target date
	Test conditions and acceptance criteria

Quick fit check

Within the DX marking

- **Gas:** Zone 1 and Zone 2, group IIC. Temperature class T5 (DX70, DX90) or T4 (DX130).
- **Dust:** Zone 21 and Zone 22, group IIIC. Surface temperature T100 °C (DX70, DX90) or T130 °C (DX130).
- **Environment:** Ambient -20 °C to +40 °C. Degree of protection IP65.

Outside the DX marking

- **Zones:** Zone 0 and Zone 20.
- **Mining:** Equipment group I.
- **North America:** Class / Division installations.
- **Ambient:** Outside -20 °C to +40 °C.
- **Temperature class:** T6.

These limits apply once certificates in the name of AUREX are issued. North American installations are assessed separately.

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