



## 1.0 Module reference

<b>Form's number:</b>	Click here to enter text
<b>Date:</b>	Click here to enter text
<b>Type of machine:</b>	Click here to enter text
<b>Max Temperature environment:</b>	Click here to enter text

## 2.0 Gear's family identification

<b>Family</b>	<b>INDUSTRIAL – RX 700</b>				
	<input checked="" type="radio"/> RX-P-700-G				
	<input type="radio"/> RX-P-700-EST				
	<input type="radio"/> RX-O-V-700-G				
	<input type="radio"/> RX-O-V-700-EST				
<b>Size</b>	<input type="text"/>				
<b>Ratio</b>	<input type="text"/>				
<b>Products or versions not certified ATEX</b>	- Versions with compact motor: Can not be certified ATEX				

## 3.0 Engine applied

	<b>Potenza - [Kw]</b>	<b>N°poli/numero giri [rpm]</b>	<b>Frequenza di rete [Hz]</b>
<input type="radio"/> <b>Electric Motor</b>	<input type="text"/>	<b>2</b>	<b>50 Hz</b>
<input type="radio"/> <b>Generic Motor</b>	<input type="text"/>	<input type="text"/>	<b>-</b>



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## 4.0 Limitation Mark

4.1 - GAS – Limitation Mark										
Type mark	Limitation Mark		Symbol Mark	Group	Category	Symbol protection	Group dangerous material	Temperature	Protection level EPL	Use limitation
<input type="checkbox"/> b-Gb-4	Accessory Option	Ventilation System 		II	2G	Exh	IIB	T4	Gb	-
<input type="checkbox"/> b-Gb-5								T5		
<input type="checkbox"/> b-Gc-4		And/Or Painting Type TYP3*		II	3G			T4	Gc	-
<input type="checkbox"/> b-Gc-5								T5		

\* The painting cycles shown in the catalog and different from these indicated, they follows rules of standard mark - point 5.0 (TYP3C & TYP4C cycles are available on request)

4.2- DUST – Limitation Mark										
Type mark	Limitation Mark		Symbol Mark	Group	Category	Symbol protection	Group dangerous material	Temperature	Protection level EPL	Use limitation
<input type="checkbox"/> b-Db-4-x	Accessory	Ventilation System 		II	2D	Exh	IIIB	135°C	Db	x
<input type="checkbox"/> b-Db-5-x								100°C		
<input type="checkbox"/> b-Dc-4-x				II	3D		135°C	Dc		
<input type="checkbox"/> b-Dc-5-x							100°C			



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**5.0 Marcatura - STANDARD**

<b>GAS</b>									
Type mark		Symbol Mark	Group	Category	Symbol protection	Group dangerous material	Temperature	Protection level EPL	Use limitation
<input type="checkbox"/> Gb-4			II	2G	Exh	IIC*	T4	Gb	-
<input type="checkbox"/> Gb-5	T5								
<input type="checkbox"/> Gc-4	T4			Gc					
<input type="checkbox"/> Gc-5	T5								
<b>Option</b>	<b>Painting Type*</b> TYP3C								
* The painting cycles shown in the catalog and different from these indicated, is not necessary to point them as they are conform to these markings									

<b>DUST</b>									
Type mark		Symbol Mark	Group	Category	Symbol protection	Group dangerous material	Temperature	Protection level EPL	Use limitation
<input type="checkbox"/> Db-4			II	2D	Exh	IIIC	135°C	Db	-
<input type="checkbox"/> Db-5	100°C								
<input type="checkbox"/> Dc-4	135°C			Dc					
<input type="checkbox"/> Dc-5	100°C								

Date: .....

Signature: .....

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# Data acquisition card for ATEX 2014/34 / UE gearboxes

Modello file: 5\_atex\_modulo\_gsm\_Industrial\_rx\_700.docm

Rev.05 14/01/2019 – Ing. Enrico Baroni

## GENERAL-INFORMATION

Symbol Mark	Group	Category	Symbol protection	Group dangerous material	Temperature*	Protection level EPL	Use limitation
	II Surface industries	2G	Exh Ex - Protection mode for constructive safety "c"	IIA	T 1 / 450°C	Gb	X With limitations of use
		Explosive atmosphere formed by gas zone 1, also inside		All gases / fluids except (Hydrogen - Acetylene - Carbon Sulphide)	Agreement with the Standards EN 80079-36.16- "GAS - 2G"		
		2D		IIB	T 2 / 300°C	Db	
		Explosive atmosphere formed by dusts zone 21		All gases / fluids except (Hydrogen - Acetylene - Carbon Sulphide)	Agreement with the Standards EN 80079-36.16- "DUST - 2D"		
		3G		IIC	T 3 / 200°C	Gc	
		Explosive atmosphere formed by gas zone 2, also inside		All gases / fluids included (Hydrogen - Acetylene - Carbon Sulphide)	Agreement with the Standards EN 80079-36.16- "GAS - 3G"		
3D	IIIA	T 4 / 135°C	Dc	Agreement with the Standards EN 80079-36.16- "DUST-3D"			
Explosive atmosphere formed by dusts zona 22	Particulate fuel						
	IIIB	T 5 / 100°C					
			IIIC	Conductive dust			

\* Group's products II2D - II3D are defined by the maximum temperature of effective surface.

In the case of Temperature Class T5 or max surface temperature of 120 ° C (for group IID, IIG) it is necessary to verify the maximum power applicable to the gearbox by consulting the internal regulations NORM\_0198.

In general, is necessary to verify the power reported in the catalog expected for the individual ratios with overall service factor of the application equal to 1 and considerations about thermal limit. The maximum temperature of surface is determined under normal installation and environmental conditions (-20 ° C and + 40 ° C) and without dust deposits on the devices. Any deviation from these reference conditions can significantly influence the disposal heat and therefore the temperature.

N°	Type mark	Designation
1	Gb-4	= CE Ex - II 2G Exh IIC T4 Gb
2	Gb-5	= CE Ex - II 2G Exh IIC T5 Gb
3	Gc-4	= CE Ex - II 3G Exh IIC T4 Gc
4	Gc-5	= CE Ex - II 3G Exh IIC T5 Gc
5	Db-4	= CE Ex - II 2D Exh IIIC 135°C Db
6	Db-5	= CE Ex - II 2D Exh IIIC 100°C Db
7	Dc-4	= CE Ex - II 3D Exh IIIC 135°C Dc
8	Dc-5	= CE Ex - II 3D Exh IIIC 100°C Dc
9	Gc-4-x	= CE Ex - II 3G Exh IIC T4 Gc-x
10	Gc-5-x	= CE Ex - II 3G Exh IIC T5 Gc-x
11	Dc-4-x	= CE Ex - II 3D Exh IIIC 135°C Dc-x
12	Dc-5-x	= CE Ex - II 3D Exh IIIC 100°C Dc-x
13	b-Gb-4	= CE Ex - II 2G Exh IIB T4 Gb
14	b-Gb-5	= CE Ex - II 2G Exh IIB T5 Gb
15	b-Gc-4	= CE Ex - II 3G Exh IIB T4 Gc
16	b-Gc-5	= CE Ex - II 3G Exh IIB T5 Gc
17	b-Db-4-x	= CE Ex - II 2D Exh IIIB 135°C Db-x
18	b-Db-5-x	= CE Ex - II 2D Exh IIIB 100°C Db-x
19	b-Dc-4-x	= CE Ex - II 3D Exh IIIB 135°C Dc-x
20	b-Dc-5-x	= CE Ex - II 3D Exh IIIB 100°C Dc-x



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