



1.0 Module reference

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

2.0 Gear's family identification

Family	HEAVY DUTY				
	<input checked="" type="radio"/> EX <input type="radio"/> EX-B <input type="radio"/> EX-V <input type="radio"/> EX-C <input type="radio"/> EX-S <input type="radio"/> EX-R <input type="radio"/> EX-O <input type="radio"/> EX-A				
Size	<input type="text"/>				
Ratio	<input type="text"/>				
Products or versions not certified ATEX		- Versioni con motore compatto: Non possono essere certificati ATEX - Versioni con freno idraulico tipo Z0-Z1-Z2-Z3: Non possono essere certificati ATEX			

3.0 Engine applied

	Power - [Kw]	N° [rpm]	Power frequency [Hz]
<input type="radio"/> Electric Motor	<input type="text"/>	2	50 Hz
<input type="radio"/> Generic Motor	<input type="text"/>	<input type="text"/>	-



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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"/> Gc-4-x	Accessory	LP-LC-LF 		II	3G	Exh	IIC	T4	Gc	x
<input type="checkbox"/> Gc-5-x								T5		
<input type="checkbox"/> b-Gb-4	Accessory Option	Ventilation System  And/Or Painting Type TYP3*		II	2G	Exh	IIB	T4	Gb	-
<input type="checkbox"/> b-Gb-5								T5		
<input type="checkbox"/> b-Gc-4			Gc	-				II	3G	T4
<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"/> Dc-4-x	Accessory	LP-LC-LF 		II	3D	Exh	IIIC	135°C	Dc	x	
<input type="checkbox"/> Dc-5-x								100°C			
<input type="checkbox"/> b-Db-4-x	Accessory	Ventilation System 		II	2D	Exh	IIB	135°C	Db	x	
<input type="checkbox"/> b-Db-5-x								100°C			
<input type="checkbox"/> b-Dc-4-x			Dc	-				II	3D		135°C
<input type="checkbox"/> b-Dc-5-x											100°C



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**5.0 STANDARD Mark**

GAS									
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								
Option	Painting Type* 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									

DUST									
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: 3_atex_modulo_stm_Heavy_Duty.docm

Rev.04 09/01/2019 – Ing. Enrico Baroni

GENERAL-INFORMATION

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

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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