



Specific recommendations for commissioning and maintenance

This document complements installation and maintenance manuals ref.: 3520 for Compabloc 3000, 3996 for Orthobloc 3000, 4031 for Manubloc 3000, 2907 for Compabloc 2000, 3062 for Manubloc 2000, 2909 for Orthobloc 2000 and the general storage and commissioning manual 2557

Our geared motors have a minimum IP 55/IK 08 degree of protection and we can guarantee their surface temperature. They are designed for use in group II explosive gas atmospheres - category 2 (zone 1) or category 3 (zone 2).

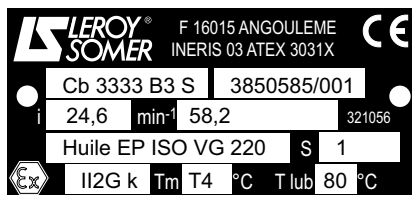
The gearbox duty factor is related to the application, defined when order is placed.

Before commissioning :

Ensure compatibility of the information on the product nameplate with the actual explosive atmosphere, the operating zone and the ambient and surface temperatures.

Follow the instructions detailed in the ATEX lubricating sheet corresponding to the product and its operating position.

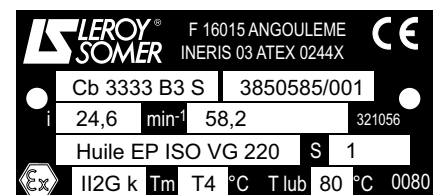
Remove all dust from the machine.



INERIS no. 03 ATEX 3031X: Gearbox only

Gearbox marking

Cb : Compabloc gearbox
3333 : Gearbox type
B3 : **Operating position**
S : Fixing type, foot mounting
N° : Batch number/No.
/ 001 : Serial number
i : Exact reduction
min⁻¹ : Revolutions per minute (rpm)
S : Duty
EP ISO VG : According to ISO grade of
220 : Viscosity at 40°C in cSt



INERIS no. 03 ATEX 0244X: Geared motor



Legal marking indicating that the equipment conforms to the requirements of the European Directives

Temperature class	T1	T2	T3	T4	T5	T6
Max. surface temperature G	450°C	300°C	200°C	135°C	100°C	85°C

Temperature class	T4	T5
Max. surface temperature GD	125°C	100°C

ATEX specific marking

0080 : INERIS (Notified Body) identification number
 : Special marking
II 2G k / II 2GD k : Group II, category 2, Gas / Group II, category 2, Gas-Dust
II 3G k / II 3GD k : Group II, category 3, Gas / Group II, category 3, Gas-Dust
T m(ax) : Maximum surface temperature: according to the above table of temperature classes
T lub : lubricant : Temperature recorded during factory tests (at 20°C ambient temperature)
Certificate no. : EC type-examination certificate number issued by INERIS
If relevant : **additional marking relating to EC certification**

USAGE AND SAFETY SPECIAL CONDITIONS



Lubrication: refer to maintenance manual

Check the oil level as detailed in the ATEX lubrication instruction sheet.

In the event of a leak, the seals should be replaced by qualified personnel. Periodic cleaning is required.



Geared motors: adjust the overload protection of the motor to the rated current indicated on the nameplate.



AP gearboxes only: connect the gearbox to earth.

- For a belt and pulley drive system:
 - The belts must be antistatic and flame-resistant.
 - The tension of the belts should be adjusted according to current practice and manufacturer recommendations.
- For a rack and pinion drive system:
 - Comply with regulations concerning current practice and manufacturer recommendations and ensure adequate lubrication.

THESE INSTRUCTIONS ARE TO BE GIVEN TO THE END USER



Specific recommendations for commissioning and maintenance

Zone 2 - Gearbox only

**EC DECLARATION OF CONFORMITY
AND INCORPORATION**
Gearbox

MOTEURS LEROY-SOMER, Plant of RABION, France
We hereby declare under our sole responsibility that the products:

**Gearboxes of series Cb – Ot – Mub
for gas atmospheres**

with the following markings on the nameplate:

CE II 3G k or II 3G c Tm surf. T1 to T6 (for zone 2)

conform to the following standards:

- International standards: EN 1127-1 –
EN 13463-1 to EN 13463-8
- ATEX European Directive: 94/9/EC
- Decree of the French Ministry of
Regional Planning and Environment: ATEP 98 702-65 A of 29/7/1998

This conformity allows the use of these product ranges in a machine subject to the application of the EC Machinery Directive EC 2006/42, provided their integration or their incorporation and/or assembly is performed according to standards, including the rules of Standard EN 60204 "Electrical Equipment of Machines" and Electromagnetic Compatibility (EMC) Directive EC 2004/108.

The products stated above may not be put to use unless the machine in which they are incorporated is declared in conformity with the Directives applicable to it.

The installation of this equipment must comply with applicable regulations, decrees, bylaws, laws, directives, instructions of application, standards, code of practice and any other regulatory document currently in force at their place of installation. LEROY-SOMER can not be held liable for any failure to conform to such requirements.

Signature of the Quality Department Officer

A. FONTANEAU

Signature of the Technical Department Officer

Ph. GUERAUD

Q30 T111 Rev C of 25/06/10

Zone 2 - Geared motor

**EC DECLARATION OF CONFORMITY
AND INCORPORATION**
Geared motor

MOTEURS LEROY-SOMER, Plant of RABION, France
We hereby declare under our sole responsibility that the products:

**Geared motors of series Cb – Ot – Mub with or without variable speed drive
and Induction motors of series FLSD(E) - (FLSE - (F)LSN (IA, ES, MV, C, IAW, ...))
for gas atmospheres**

with the following markings on the nameplate:

CE 0080 II 3G Ex d II B or C T1 to T6 or Ex e II T1 to T6 or Ex n II T1 to T6 (for zone 2)

conform to the following standards:

- International standards: EN 1127-1 –
EN 13463-1 to EN 13463-8
EN 61241-0:2006 & EN 61241-1:2004
IEC 60034 – IEC 60072 - EN 60529
94/9/EC
- ATEX European Directive: ATEP 98 702-65 A of 29/7/1998
- Decree of the French Ministry of
Regional Planning and Environment:
- Manufacture requirements are covered
by the notification of PRODUCT QUALITY ASSURANCE: Under the responsibility of the Notified Body:
INERIS

This conformity allows the use of these product ranges in a machine subject to the application of the EC Machinery Directive EC 2006/42, provided their integration or their incorporation and/or assembly is performed according to standards, including the rules of Standard EN 60204 "Electrical Equipment of Machines" and Electromagnetic Compatibility (EMC) Directive EC 2004/108.

The products stated above may not be put to use unless the machine in which they are incorporated is declared in conformity with the Directives applicable to it.

The installation of this equipment must comply with applicable regulations, decrees, bylaws, laws, directives, instructions of application, standards, code of practice and any other regulatory document currently in force at their place of installation. LEROY-SOMER can not be held liable for any failure to conform to such requirements.

Note: When motors are powered by electronic converters adapted to and/or interlocked with electronic command or control devices, they must be installed by a qualified professional who will be responsible for ensuring compliance with electromagnetic compatibility rules in force in the country where the product is installed.

Signature of the Quality Department Officer

A. FONTANEAU

Signature of the Technical Department Officer

Ph. GUERAUD

Q30 T112 Rev C of 25/06/10

Zone 1 and zone 2 - Gearbox only

**EC DECLARATION OF CONFORMITY
AND INCORPORATION**
Gearbox

MOTEURS LEROY-SOMER, Plant of RABION, France
We hereby declare under our sole responsibility that the products:

**Gearboxes of series Cb – Ot – Mub
for gas atmospheres**

with the following markings on the nameplate:

CE II 2G k ou II 2G c T1 à T6 for zone 1 and for zone 2

conform to the following standards:

- International standards: EN 1127-1 –
EN 13463-1 to EN 13463-8
- ATEX European Directive: 94/9/EC
- Decree of the French Ministry of
Regional Planning and Environment: ATEP 98 702-65 A of 29/7/1998
- Type conformity, as stated in Type Examination
Certificate issued by the Notified Body:
INERIS (0080) - BP 2 - Parc technologique ALATA
F60550 - VERNEUIL EN HALATTE, France INERIS 03ATEX3031X

This conformity allows the use of these product ranges in a machine subject to the application of the EC Machinery Directive EC 2006/42, provided their integration or their incorporation and/or assembly is performed according to standards, including the rules of Standard EN 60204 "Electrical Equipment of Machines" and Electromagnetic Compatibility (EMC) Directive EC 2004/108.

The products stated above may not be put to use unless the machine in which they are incorporated is declared in conformity with the Directives applicable to it.

The installation of this equipment must comply with applicable regulations, decrees, bylaws, laws, directives, instructions of application, standards, code of practice and any other regulatory document currently in force at their place of installation. LEROY-SOMER can not be held liable for any failure to conform to such requirements.

Signature of the Quality Department Officer

A. FONTANEAU

Signature of the Technical Department Officer

Ph. GUERAUD

Q30 T109 Rev C of 25/06/10

Zone 1 and zone 2 - Geared motor

**EC DECLARATION OF CONFORMITY
AND INCORPORATION**
Geared motor

MOTEURS LEROY-SOMER, Plant of RABION, France
We hereby declare under our sole responsibility that the products:

**Geared motors of series Cb – Ot – Mub with or without variable speed drive
and Induction motors of series FLSD(E) - (FLSE - (F)LSN (IA, ES, MV, C, IAW, ...))
for gas atmospheres**

with the following markings on the nameplate:

CE 0080 II 2G Ex e T... or Ex d II B or C T... for zone 1 and for zone 2

conform to the following standards:

- International standards: EN 61241-0:2006 & EN 61241-1:2004
EN 1127-1 - EN 13463-1 to EN 13463-8
IEC 60034 – IEC 60072 - EN 60529
2006/95/EC
- Low Voltage Directive: 94/9/EC
- ATEX European Directive: ATEP 98 702-65 A of 29/7/1998
- Decree of the French Ministry of
Regional Planning and Environment:
- Type conformity, as stated in EC Type Examination
Certificate issued by the Notified Body:
INERIS (0080) - BP 2 - Parc technologique ALATA
F60550 - VERNEUIL EN HALATTE, France INERIS 03ATEX0244X
for series FLSD(E) : INERIS 01ATEX0001X
and IIC HA x 160 : INERIS 02ATEX0059X
for series (FLSE) : INERIS 01ATEX0010X
for series (F)LSN : INERIS 01ATEX3004X

• Manufacture requirements are covered
by the notification of PRODUCT QUALITY ASSURANCE: Under the responsibility of the Notified Body:
INERIS

This conformity allows the use of these product ranges in a machine subject to the application of the EC Machinery Directive EC 2006/42, provided their integration or their incorporation and/or assembly is performed according to standards, including the rules of Standard EN 60204 "Electrical Equipment of Machines" and Electromagnetic Compatibility (EMC) Directive EC 2004/108.

The products stated above may not be put to use unless the machine in which they are incorporated is declared in conformity with the Directives applicable to it.

The installation of this equipment must comply with applicable regulations, decrees, bylaws, laws, directives, instructions of application, standards, code of practice and any other regulatory document currently in force at their place of installation. LEROY-SOMER can not be held liable for any failure to conform to such requirements.

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A. FONTANEAU

Signature of the Technical Department Officer

Ph. GUERAUD

Q30 T110 Rev C of 18/06/10