



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, 2910 for Multibloc, 3097 for Poulibloc 2000 and the general storage and commissioning manual 2557

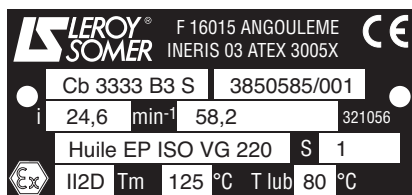
Our geared motors have degree of protection IP 65/IK 08 minimum and we can guarantee their surface temperature. They are designed for use in group II atmospheres containing explosive dust - category 2 (IP 65 - zone 21) or category 3 (IP 55 - zone 22).

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

Before commissioning :

Check compatibility of the information between the motor nameplate and the current explosive atmosphere, the zone where it is used and the ambient and outside gearbox temperatures.

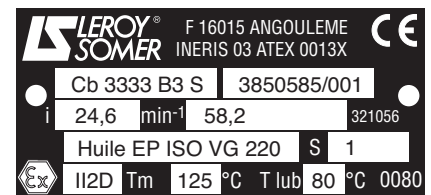
Remove all dust from the machine.



INERIS n° 03 ATEX 3005X : Gearbox only

Gearbox marking

Cb : Compabloc gearbox
3333 : Gearbox type
B3 : Operating position
S : Fixing type, foot mounting
N° : Patch number / N°
/ 001 : Serial number
i : Exact reduction
min⁻¹ : Nber of revolutions per minute
S : Service
EP ISO VG : According to ISO grade of
220 : Viscosity at 40°C in cSt



INERIS n° 03 ATEX 0013X : Geared motor



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

Specific ATEX marking

0080 : INERIS identification number (Notified Organisation)
 : Special marking
II 2D : Group II, category 2, Dust or :
II 3D : Group II, category 3, Dust
T m(ax) : Maximum surface temperature : 125°C for example
T lub : lubricant : Recorded temperature during factory tests (at 20°C ambient temperature)
Test N° : Type test certificate n° issued by INERIS (II2D group)
If relevant : additional marking anticipated in CE test

USAGE AND SAFETY SPECIAL CONDITIONS



Lubrication: refer to maintenance manual and/or adapted numbered identification "Sheet"
 Check proper oil level every week. If leak occurs, replacement of seals must be performed by qualified personnel.
 Recurring cleaning.



Geared motor :
 Adjust magnetothermal protection of the motor to rated current on the identification plate.



AP gearbox only :
 Connect the gearbox to earth (to ground).

- If transmission via belt and pulleys :
 - The belts must be anti-static and flame resistant.
 - The tension of the belts should be adjusted very carefully in line with the specifications of the belt supplier.
- If transmission via rack and pinion :
 - Respect the rules and follow the specifications of the supplier for adequate lubrication of the rack.

THIS MANUAL IS TO BE GIVEN TO THE END USER



Specific recommendations for commissioning and maintenance

Zone 22 - Gearbox only



EC DECLARATION OF CONFORMITY AND INCORPORATION
Reduction gear

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

Reduction gear of Series Cb - Ot - Mub - Mb - Pb for dusty atmosphere

CE markings on plate:

CE **II 3D Tm surf. 125°C** (for Zone 22) Non-Conducting dust

conform to the following standards:

- International standards: **EN 1127-1 – EN 13463-1 to EN 13463-8**
- European Directive ATEX: **94/9/CE**
- 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 2006/42/EC, 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 2004/108/EC.

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 T106 Rev E of 25/06/10

Zone 22 - 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 motor of series Cb - Ot - Mub - Mb - Pb with or without speed controller VARMECA to be mounted with Asynchronous Motors of Series LS, FLS, LS FCR, FLS FCR (IA, ES, MV, C, IAW,...) for dusty atmosphere

CE markings on plate:

CE 0080 **II 3D Ex 1D IP 55 T. 125°C** (for Zone 22) Non-Conducting dust

conform to the following standards:

- International standards: **EN 61241-0:2006 & EN 61241-1:2004 EN 13463-1 to EN 13463-8 EN 1127-1 IEC 60034 – IEC 60072 - EN 60529 94/9/CE EC 2006/95**
- European Directive ATEX **94/9/CE EC 2006/95**
- Decree of the French Ministry of Regional planning and Environment: **ATEP 98 702-65 A of 29-7-1998**
- Manufacture requirements are covered by the notification of PRODUCT QUALITY ASSURANCE: **INERIS**

This conformity allows the use of these product ranges in a machine subject to the application of the EC Machinery Directive 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 2004/108/EC.



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 power supplied 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 T107 Rev G of 25/06/10

Zone 21 and zone 22 - Gearbox only



EC DECLARATION OF CONFORMITY AND INCORPORATION
Reduction gear

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

Reduction gear of Series Cb - Ot - Mub - Mb - Pb for dusty atmosphere

CE markings on plate:

CE **II 2D - Tm surf. 125°C** for Zone 21 and Zone 22 Conducting dust

conform to the following standards:

- International standards: **EN 1127-1 – EN 13463-1 to EN 13463-8**
- European Directive ATEX: **94/9/CE**
- Decree of the French Ministry of Regional planning and Environment: **ATEP 98 702-65 A of 29-7-1998**
- Type conformity, as stated in EC Type Examination Certificate issued by the Notified Body: **INERIS (0080) - BP 2 - Parc technologique ALATA F60550 - VERNEUIL IN HALATTE, France** **INERIS 03ATEX3005X**



This conformity allows the use of these product ranges in a machine subject to the application of the EC Machinery Directive 2006/42/CE, 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 2004/108/EC.

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.

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Signature of the Quality Department Officer
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Signature of the Technical Department Officer
Ph. GUERAUD

Q30 T103 Rev D of 25/06/10

Zone 21 and zone 22 - 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 motor of series Cb - Ot - Mub - Mb - Pb to be mounted with Asynchronous Motors of Series LSPX, FLSPX, LSPX FCR, FLSPX FCR (IA, ES, MV, C, IAW, ...) with or without speed controller VARMECA for dusty atmosphere

CE markings on plate:

CE 0080 **II 2D Ex 1D IP 65 T. 125°C** for Zone 21 and Zone 22 Conducting dust

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/CE**
- Low-Voltage Directive: **94/9/CE**
- European Directive ATEX: **94/9/CE**
- Decree of the French Ministry of Regional planning and Environment: **ATEP 98 702-65 A of 29-7-1998**
- Type conformity, as stated in EC Type Examination Certificate issued by the Notified Body: **INERIS (0080) - BP 2 - Parc technologique ALATA F60550 - VERNEUIL IN HALATTE, France** **INERIS 03ATEX0013X** for series LSPX : **INERIS 00ATEX0003X** for series FLSPX : **INERIS 00ATEX0004X** for series (F)LSPX FCR : **INERIS 03ATEX0012X**
- Manufacture requirements are covered by the notification of PRODUCT QUALITY ASSURANCE: **INERIS**

This conformity allows the use of these product ranges in a machine subject to the application of the EC Machinery Directive 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 2004/108/EC.



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.

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Q30 T104 Rev D of 04/06/10