TÜVNORD

(1) Statement of Conformity

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**

(3) **Statement of Conformity Number:** **TÜV CY 21 ATEX 0206450 X Issue 02**

(4) for the equipment: Three-phase Asynchronous Electrical Motors and Brake Motors
Type: AX*****; JM*****; GM*****; JMD*****; GMD*****; JMK*****; GMK*****.

(5) of the manufacturer: **SEIPEE S.p.A.**

(6) Address: Via Ferrari, 4 - 41011 Campogalliano (MO) - ITALY

Order number: 0206450

Date of issue: 2025-05-12

(7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this statement of conformity and the documents therein referred to.

(8) TÜV CYPRUS Ltd certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 25 0206450.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 **EN 60079-7:2015/A1:2018** **EN 60079-31:2014**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This statement of conformity relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:

II 3G Ex ec IIC T4 Gc, and/or
II 3D Ex tc IIIC T135°C Dc

TÜV CYPRUS Ltd (TUV NORD Group),
The head of competent body,

Notified body
D. Demosthenous
TÜV CYPRUS
TÜV NORD GROUP
2261

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TÜVNORD

(13) **SCHEDULE**

(14) **Statement of Conformity No. TÜV CY 21 ATEX 0206450 X Issue 02**

(15) Description of equipment

The three-phase asynchronous motors types **AX*****, **JM*****, **JMD*****, **JMK*****, sizes 56, 71, 80, 90, 100, 112, 132, 160mm are made of aluminium alloy material enclosures, terminal boxes and shields.

JMK series motors are equipped with a brake, connected to the rear shield either directly by it's anchor bolts or by a bracket connected to the motor to which the brake is then attached.

The three-phase asynchronous motors types **GM*****, **GMD*****, **GMK*****, sizes 160, 180, 200, 225, 250, 280, 315, 355, 400, 450mm are made of cast iron material enclosures, terminal boxes and shields.

GMK series motors are equipped with a brake, connected to the rear shield either directly by its anchor bolts or by a bracket connected to the motor to which the brake is then attached

Motor enclosures and terminal boxes are designed in Ex-ec type of protection. The motor and terminal box enclosures satisfy also the Ex-tc type of protection, mechanical protection degree IP65.

The motors can be equipped with auxiliary devices separately certified: encoders and motor-fan for ventilation or brakes, for brakes safety instructions refer to related producers manual.

The motor supplied by inverter is equipped inside of stator winding with PTC or PT100 thermal detectors for temperature control. Rating data are specified on supplementary nameplate and safety instruction.

According to IEC 60034-6 standard, the cooling is achieved by one of the following methods:

- Self-cooled motor by fan fitted on shaft, IC411;
- Fan directly coupled, IC418;
- Totally enclosed not ventilated, IC410;
- Forced ventilation by means of auxiliary motor, IC416.

The operation of the primary motor shall be interlocked to the correct operation of the forced ventilation.

The accessories used for cable entry and for the unused holes shall be separately certified according to the applicable type of protection and shall guarantee the minimum degree of protection.

Motors identification code:

*	*	*	*	*	*	
						Pos. 1 = Motor series
						Pos. 2 = Motor size
						Pos. 3 = Frame length
						Pos. 4 = Stator core length
						Pos. 5 = Polarity number
						Pos. 6 = Mounting arrangements

***Pos.1**: Motor series*

JM, AX	*Three phase motor alluminium alloy frame*
JMD	*Three phase motor alluminium alloy frame double polarity*
JMK	*Three phase Brake motor alluminium alloy frame*
GM	*Three phase motor cast iron frame*
GMD	*Three phase motor cast iron frame double polarity*
GMK	*Three phase Brake motor cast iron frame*

***Pos.2** : Motor size*

56	*Motor size 056*	***180***	*Motor size 180*
63	*Motor size 063*	***200***	*Motor size 200*
71	*Motor size 071*	***225***	*Motor size 225*
80	*Motor size 080*	***250***	*Motor size 250*
90	*Motor size 090*	***280***	*Motor size 280*
100	*Motor size 100*	***315***	*Motor size 315*
112	*Motor size 112*	***355***	*Motor size 355*
132	*Motor size 132*	***400***	*Motor size 400*
160	*Motor size 160*	***450***	*Motor size 450*

***Pos.3** : Frame length*

S	*Short frame*	***L***	*Long frame*
M	*Medium frame*	***X***	*Extra long frame*

***Pos.4** : Stator core length*

A	*Medium iron core*	***C***	*Extra long iron core*
B	*Long iron core*	***D***	*Over Extra long iron core*

***Pos.5** : Polarity number*

2	*2 pole*	***2/4***	*2/4 pole*
4	*4 pole*	***4/6***	*4/6 pole*
6	*6 pole*	***4/8***	*4/8 pole*
8	*8 pole*		

***Pos.6** : Mounting arrangements*

B3	*With feet*	***B35***	*With feet and flange*
B5	*With flange*	***B34***	*With feet and small flange*
B14	*With small flange*		

*Code example for motor: **JM 132 MA 4 B5** = Three phase motor 2G - Ex ec IIC T3 Gb, frame size 132, - Ex tc IIIC T135°C Dc, frame size 132, Medium iron core, 4 pole*

Brakes identification code:

**	*	*	*	*	*	*	*	
								Pos. 1 = Brake type
								Pos. 2 = Brake size
								Pos. 3 = Braking Torque
								Pos. 4 = Rated supply voltage A.C.
								Pos. 5 = Brake frequency
								Pos. 6 = Brake absorption current
								Pos. 7 = Rectifier type (only to DC Brake)
								Pos. 8 = Nominal voltage DC Brake

***Pos.1**: Brake type*

TA	*DC brake Temporiti ATEX = K & KF Series*
TC	*AC brake Temporiti ATEX = AC Series*
LC	*DC brake Lenze ATEX = BFK 458*

***Pos.2**: Brake size*

1 → 12	*Temporiti size*
6 → 25	*Lenze size*

***Pos.3**: Braking torque Nm*

xx	*Min and Max braking torque*

***Pos.4**: Rated supply voltage A.C.*

xxx	*Brake voltage in Volt*

***Pos.5**: Brake frequency*

xx	*Brake frequency in Hz*

***Pos.6**: Brake absorption current*

xxx	*Brake absorption in Amps*

***Pos.7**: Rectifier type (only to DC Brake)*

xxxx	*Rectifier type if used*

***Pos.8**: Nominal voltage DC Brake*

xxxx	*DC nominal brake supply voltage*

Code example for Brake: ***TA 8 130/400 Nm 230/400 V 50 Hz 1.40/0.80A - -***

Ratings:
Main supply:

- Maximum rated voltage: 1000 V
- Maximum rated power: 1000 kW
- Maximum current: 1700 A
- Rated frequency: 50 / 60 Hz
- Insulation class: F (with ΔT class B)
- Duty: S1, S2, S3, S4, S6, S9
- Max. rated speed: 3600 r.p.m

Inverter supply:

- Maximum rated voltage: 1000 V
- Maximum peak voltage: 2300 V
- Maximum current: 740 A
- Max. rated speed: 3960 rpm
- Duty: S9

Allowable ambient temperature range:
-20°C to +50°C

Warning label:

The following warnings are applied to the motor:
"Warning – potential electrostatic charging hazard – see instructions"

On the cover of the junction box:
A warning sticker is applied, which means do not open when energized

DETAILS OF CERTIFICATE CHANGES (for issues 01 and above):
Issue 01:
Additional motors size 350mm; 400mm and 450mm.
Issue 02:
Additional brake motors JMK and GMK series.

(16) Test documents are listed in the test report No. 25 0206450.

Routine tests:
A dielectric strength test shall be carried out on Ex-ec junction box in accordance with Clause 6.1 of EN 60079-7:2015/A1:2018 Ed. 5, with voltage (2Un+1000)V in period of at least 60 s or 1.2x(2Un+1000)V at least 100 ms.

(17) Special conditions for safe use

- The motor can be equipped with auxiliary devices: encoders and motor-fan for ventilation. Auxiliary devices shall be separately certified and be suitable for the installation zone.
- After connecting the motor, the terminal box must be sealed with sealant for gasket. The information of sealant into the use and maintenance manual.
- For installation in areas with presence of gas group IIC, when motors are painted with a maximum thickness of paint exceeding 0.2mm, shall be taken into account the risk of electrostatic charges.
- The accessories used for cable entry and for the unused holes shall be separately certified according to the applicable type of protection and shall guarantee the minimum degree of protection.
- When the motor is supplied by inverter, the stator winding is equipped with PTO, PTC, PT100, PT1000 or KTY thermal detectors for temperature control of the windings and PT100 for thermal control of the bearings. The intervention of the thermal detector shall guarantee the disconnection of the supply, the resetting of the supply shall not be automatic. Anti-condensation heaters operating is admitted only when motor is not running.
- JMK and GMK motor are equipped with properly brakes, separately certified by brakes builders certified and suitable for the installation zone.
- We remark that the brake is intended to operate only for parking braking, not for dynamic braking

(18) Essential Health and Safety Requirements

No additional ones. Assured by compliance with the standards set out in the [9].