



America

# CERTIFICATE

No. U8V 17 09 80353 006

**Holder of Certificate:** Fagor Automation, S. Coop.San Andrés Auzoa, 19  
20500 Arrasate - Mondragón  
SPAIN**Certification Mark:****Product:****Electric Motors  
(construction only)**

The product was voluntarily tested according to the relevant safety requirements noted above. It can be marked with the certification mark above. The mark must not be altered in any way. This product certification system operated by TÜV SÜD America Inc. most closely resembles system 3 as defined in ISO/IEC 17067. Certification is based on the TÜV SÜD "Testing and Certification Regulations". TÜV SÜD America Inc. is an OSHA recognized NRTL and a Standards Council of Canada accredited certification body.

**Test report no.:**

028-713063149-000

**Date,** 2017-09-12

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**Model(s):**

FKMab.ccd.ee.fgh.i1-Ukk  
 "a" can be 2, 4, 6 or 8 and defines motor size  
 "b" can be from 1 to 9 and defines motor length  
 "cc" can be from 01 to 99 and defines rated speed in 1/min x 100  
 "d" can be A or F and defines winding type  
 "ee" can be A3, A5, E3 or E5 and defines encoder type  
 "f" can be 0, 1, 2, 3 or 9 and defines flange and shaft  
 "g" can be 0, 1 or 2 and defines brake  
 "h" can be 0 or 1 and defines fan/cooling  
 "i" can be 1 or 2 and defines winding options  
 "kk" can be 01 to 99 and defines special non-critical configurations

**Parameters:**

Rated voltage:

3 Ph 400-480 V

Rated input current:

FKM2	FKM4	FKM6	FKM8
2,4 – 4,5 A	3,0 – 10,7 A	5,4 – 16,4 A	13,2 – 60,0 A

Rated frequency:

FKM2	FKM4	FKM6	FKM8
150 – 300 Hz	150 – 300 Hz	150 – 300 Hz	150 – 300 Hz

For further Information please see the attachment

**Tested according to:**

UL 1004-1:2012/R:2013-09  
 CAN/CSA-C22.2 No. 100:2014-07

**Production Facility(ies):**

59681

**Attachment to Certificate No. U8V 17 09 80353 006**  
**Holder of Certificate: FAGOR AUTOMATION, S. Coop.**



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**Description of parameters:**

Model .....	FKM2	FKM4	FKM6	FKM8
Rated voltage .....	3 Ph 400-480 V	3 Ph 400-480 V	3 Ph 400-480 V	3 Ph 400-480 V
Rated input current....	2,4 – 4,5 A	3,0 – 10,7 A	5,4 – 16,4 A	13,2 – 60,0 A
Rated frequency .....	150 – 300 Hz	150 – 300 Hz	150 – 300 Hz	150 – 300 Hz
Rated RPM .....	3000 – 6000	2000 – 4000	2000 – 4000	2000 – 4000
Rated output power...	0,5 – 1,0 kW	1,4 – 2,3 kW	2,2 – 7,4 kW	5,0 – 18,8 kW
Rated Torque.....	0,824 – 2,56 Nm	4,5 – 9,2 Nm	3,5 – 30,0 Nm	17,0 – 88,0 Nm
Isolation Class .....	F (+155°C)	F (+155°C)	F (+155°C)	F (+155°C)
Enclosure Fan .....	-	-	24 Vdc	230 Vac
Weight.....	4,2 – 5,6 kg	7,8 – 12,2 kg	11,9 – 27,3 kg	31,0 – 70,0 kg
Wiring .....	Factory	Factory	Factory	Factory
Construction .....	Open Frame / Building In	Open Frame / Building In	Open Frame / Building In	Open Frame / Building In
Duty .....	CONT	CONT	CONT	CONT

**Conditions of acceptability:**

- The products are three phase, Class F insulated, servo motors for building-in.
  - The investigation covers only the general construction features (excluding: testing of degree of protection) and no evaluation of the performance characteristics has been made. Therefore, the acceptability when operated under normal or abnormal load conditions within an appliance or enclosure must be determined for each use.
  - When installing requirements of test standards must be fulfilled.
  - Installation and use shall be according Operations Instructions / Installation Guide.
  - The motors are for factory wiring only.
  - All external motor cables and plugs must be determined in the end-use application.
  - The suitability of a need for an ultimate enclosure shall be determined in the end-use application.
  - This Report does not cover the investigation of any motor-protector combination.
  - The suitability of the thermal protection shall be determined in the end use application.
  - The supply of the Temperature Sensor shall fulfill requirements of Low Voltage circuitry.
  - The supply of the Encoder shall fulfill requirements of Limited Energy according UL/CSA 61010-1.
  - Supply of brake shall fulfill requirements of Low Voltage.
  - The Temperature Sensor is insulated against the mains windings.
  - Bonding/ Earthing shall be determined according end-use requirements.
  - Bonding/ Earthing wire conductor size shall be based on the rating of the branch-circuit overcurrent protective device.
- Bonding/ Earthing screw (M 5) must be protected against loosening.