



Electric Motors - www.felm.it

NEMA MG-1 MOTORS

CC Number by DOE – Nema Premium Efficiency tab 12-12 - IEC





CERTIFICATE OF COMPLIANCE

Certificate Number E481791
Report Reference E481791-20210430
Issue Date 2021-APRIL-30

Issued to: FELM srl
Via MorandiInverunoITMIIT20001

This certificate confirms that representative samples of Motors for Appliance Applications - Component See Addendum Page

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: UL 1004-1- Standards for Rotating Electrical Machines - General Requirements.
CSA C22.2 No. 100-14- Standard for Motors and generators

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

OF COMPLIANCE

1791
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of the product as specified on this certificate were tested

-90L-4 *-90L-6 ***-90S-2 ***-90S-4 ***-90S-6 ***-
***-112M-2 ***-112M-4 ***-112M-6 ***-132M-4 ***-
4 ***-132S-6 ***-132SX-2 ***-160L-2 ***-160L-4 ***-
-6 ***-160LY-2 ***-180L-4 ***-180L-6 ***-180M-2 ***-
***-200LX-2 ***-200LX-6 ***-225M-2 ***-225M-4 ***-
***-250M-6 ***-280M-2 ***-280M-4 ***-280M-6 ***-
280S-2 ***-280S-4 ***-280S-6 ***-315L-2 ***-315L-4 ***-315L-6 ***-315LX-2 ***-315LX-4 ***-
315LX-6 ***-315M-2 ***-315M-4 ***-315M-6 ***-315S-2 ***-315S-4 ***-315S-6 ***-355L-2 ***-355L-
4 ***-355L-6 ***-355LX-2 ***-355LX-4 ***-355LX-6 ***-355LY-2 ***-355LY-4 ***-355LY-6 ***-355M-
2 ***-355M-4 ***-355M-6 ***-355MX-6 ***-355MY-6 ***-400M-2 ***-400M-4 ***-400M-6

ZZZM-B ***-ZZZS-4 ***-ZZUM-2 ***-ZZUM-4
***-250M-6 ***-280M-2 ***-280M-4 ***-280M-6 ***-
280S-2 ***-280S-4 ***-280S-6 ***-315L-2 ***-315L-4 ***-315L-6 ***-315LX-2 ***-315LX-4 ***-
315LX-6 ***-315M-2 ***-315M-4 ***-315M-6 ***-315S-2 ***-315S-4 ***-315S-6 ***-355L-2 ***-355L-
4 ***-355L-6 ***-355LX-2 ***-355LX-4 ***-355LX-6 ***-355LY-2 ***-355LY-4 ***-355LY-6 ***-355M-
2 ***-355M-4 ***-355M-6 ***-355MX-6 ***-355MY-6 ***-400M-2 ***-400M-4 ***-400M-6

****143T-2, ****143T-4, ****145T-2, ****145T-4, ****145T-6, ****182T-2, ****182T-4, ****182T-
6, ****184T-2, ****184T-4, ****184T-6, ****213T-2, ****213T-4, ****213T-6, ****215T-2, ****215T-
4, ****215T-6, ****254T-2, ****254T-4, ****254T-6, ****256T-2, ****256T-4, ****256T-6, ****284T-
4, ****284T-6, ****284TS-2, ****286T-4, ****286T-6, ****286TS-2, ****324T-4, ****324T-6, ****324TS-
2, ****326T-4, ****326T-6, ****326TS-2, ****364T-4, ****364T-6, ****364TS-2, ****365T-4, ****365T-
6, ****365TS-2, ****404T-6, ****405T-4, ****405T-6, ****405TS-2, ****444T-4, ****444T-6, ****444TS-
2, ****445T-4, ****445T-6, ****445TS-2, ****447T-4, ****447T-6, ****447TS-2, ****449T-4, ****449T-
6, ****449TS-2, ****504/5T-4, ****504/5T-6, ****586/7T-4, ****586/7T-6, FWMP 400LY-4.

Barabell

Bruce Mahrenholz, Director North American Certification Program
UL LLC

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FELM US Electric Motors

General

FELM NEMA motors FT series, TEFC, is designed and manufactured according with the latest version of NEMA MG1 construction. TEFC motor with design B meets MG1 standard 12-12.

All motors are with UL/CSA certificate, and suitable for VFD application. *1

All motors are with service factor 1.15

F1 & F2 are interchangeable from 143T to 449T.

Frame 143T through to N6808, 3600, 1800, 1200 and 900RPM, continuous duty at 40°C, 230/460V 60HZ. 575V available on request.

Bearings

Oversized, world top brand of life sealed with pre-lubricated ball bearing up to 280T, and re-greaseable bearings from 320T and up.

World top brand of high performance grease applied for longer operation life.

Grease pipes and relief vents with plug are provided for all open bearing construction.

Insulation

All motors are with excellent insulation system class F, temperature rise B.

Conduit Box

Oversized conduit box made of fabricated steel provides big space for connections.

Diagonally and rotatable in 90° positions.

Cast iron conduit box from frame N5007 and up.

***1 Meets NEMA MG1 part 31, CT 20:1 VT 4:1, wider range available on request (also depends on the inverter selection)**



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