


# CERTIFICATE OF CONFORMITY

## Low Voltage Directive 2014/35/EU

Certificate No. 4789155358  
Product INDUCTION MOTOR  
Model /Type ref. See below Appendix Page  
Holder of Certificate GGM  
22, 3 Beon-gil, Keongin-ro, Sosa-gu, Bucheon, Korea (zip 14731)  
Manufacturer GGM  
178, Oksan-ro, Wonmi-ku, Bucheon, Korea (zip 14524)  
Trade Mark   
Electrical Rating See below Appendix Page  
Insulation Class Class B  
Degree of Protection See below Appendix Page  
Additional Information N/A

This is to certify that the sample(s) of the Product described above has been investigated and is presumed to be in conformity with the applicable safety objectives set out in Annex I of the Directive 2014/35/EU on the basis of compliance with the following harmonised standards:

Standard(s): EN 60034-1:2010/AC:2010

Detailed specifications of the tested and certified product are shown in the following Test Report:

Test Report Ref. No.: 4789155358

Issued Date: 2020-01-09

By: UL Korea Ltd.

The standard(s) above is listed in harmonized standards of Official Journal of the European Union and apply to the sample of product submitted by the manufacturer for conformity assessment for safety objectives, excluding the analysis and assessment of risk(s) and the manufacturing process and its monitoring. This certificate and the relevant test results apply only to the product sample(s) submitted by the manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. This certificate is to serve as a supplement to technical documents which established by the manufacturer according to Annex III of the directive. The manufacturer shall draw up a written EU declaration of conformity for a product model and keep it together with the technical documentation at the disposal of the national market surveillance authorities for 10 years after the electrical equipment has been placed on the market. The EU declaration of conformity shall identify the electrical equipment for which it has been drawn up.

This document contains 1 page.

Date: 2020-03-02

Signature:   
.....


**Churlbae Kim**  
Engineering Manager  
Conformity Assessment Services

**UL Korea Ltd.**  
26<sup>th</sup> Fl. Gangnam Finance Center,  
152 Teheran-ro, Gangnam-gu, Seoul, Korea  
Tel: +82 2 2009 9000 Fax: +82 2 2009 9404



# CERTIFICATE OF CONFORMITY

## Low Voltage Directive 2014/35/EU

Certificate No. 4789155358  
Product INDUCTION MOTOR  
Model /Type ref. See below Appendix Page  
Holder of Certificate GGM  
22, 3 Beon-gil, Keongin-ro, Sosa-gu, Bucheon, Korea (zip 14731)  
Manufacturer GGM  
178, Oksan-ro, Wonmi-ku, Bucheon, Korea (zip 14524)  
Trade Mark   
Electrical Rating See below Appendix Page  
Insulation Class Class B  
Degree of Protection See below Appendix Page  
Additional Information N/A

This is to certify that the sample(s) of the Product described above has been investigated and is presumed to be in conformity with the applicable safety objectives set out in Annex I of the Directive 2014/35/EU on the basis of compliance with the following harmonised standards:

Standard(s): EN 60034-1:2010/AC:2010

Detailed specifications of the tested and certified product are shown in the following Test Report:

Test Report Ref. No.: 4789155358

Issued Date: 2020-01-09

By: UL Korea Ltd.

The standard(s) above is listed in harmonized standards of Official Journal of the European Union and apply to the sample of product submitted by the manufacturer for conformity assessment for safety objectives, excluding the analysis and assessment of risk(s) and the manufacturing process and its monitoring. This certificate and the relevant test results apply only to the product sample(s) submitted by the manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. This certificate is to serve as a supplement to technical documents which established by the manufacturer according to Annex III of the directive. The manufacturer shall draw up a written EU declaration of conformity for a product model and keep it together with the technical documentation at the disposal of the national market surveillance authorities for 10 years after the electrical equipment has been placed on the market. The EU declaration of conformity shall identify the electrical equipment for which it has been drawn up.

This document contains 1 page.

Date: 2020-03-02

Signature:   
.....

**Churlbae Kim**  
Engineering Manager  
Conformity Assessment Services

**UL Korea Ltd.**  
26<sup>th</sup> Fl. Gangnam Finance Center,  
152 Teheran-ro, Gangnam-gu, Seoul, Korea  
Tel: +82 2 2009 9000 Fax: +82 2 2009 9404



# Appendix to

## CE LVD Certificate No. 4789155358

### Model/Type reference

K6I\*6NC-\*-\*; K6I\*6ND-\*-\*; K7I\*15NC-\*-\*; K7I\*15ND-\*-\*;  
K8I\*25NC-\*-\*; K8I\*25ND-\*-\*; K8I\*40FC-\*-\*; K9I\*40NC-\*-\*;  
K9I\*40ND-\*-\*; K9I\*60FC-\*-\*; K9I\*60FD-\*-\*; K9I\*90FC-\*-\*;  
K9I\*90FD-\*-\*; K9I\*120FC-\*-\*; K9I\*120FC-\*-\*C50-\*; K9I\*180FC-\*-\*;

K6R\*6NC-\*-\*; K6R\*6ND-\*-\*; K7R\*15NC-\*-\*; K7R\*15ND-\*-\*;  
K8R\*25NC-\*-\*; K8R\*25ND-\*-\*; K8R\*40FC-\*-\*; K9R\*40NC-\*-\*;  
K9R\*40ND-\*-\*; K9R\*60FC-\*-\*; K9R\*60FD-\*-\*; K9R\*90FC-\*-\*;  
K9R\*90FD-\*-\*; K9R\*120FC-\*-\*; K9R\*120FC-\*-\*C50-\*; K9R\*180FC-\*-\*;

### Ratings

6 W 220 V~, 50 Hz, 0.11 A, 0.6  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.10 A, 0.6  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.12 A, 0.6  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.11 A, 0.6  $\mu$ F, 1500 r/min,  
insulation B, IP20 for K6I\*6NC-\*-\*;

6 W 240 V~, 50 Hz, 0.12 A, 0.5  $\mu$ F, 1250 r/min,  
insulation B, IP20 for K6I\*6ND-\*-\*;

15 W 220 V~, 50 Hz, 0.20 A, 1.0  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.19 A, 1.0  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.21 A, 1.0  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.20 A, 1.0  $\mu$ F, 1500 r/min,  
insulation B, IP20 for K7I\*15NC-\*-\*;

15 W 240 V~, 50 Hz, 0.23 A, 1.0  $\mu$ F, 1250 r/min,  
insulation B, IP20 for K7I\*15ND-\*-\*;

25 W 220 V~, 50 Hz, 0.28 A, 1.5  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.25 A, 1.5  $\mu$ F, 1550 r/min,  
230 V~, 50 Hz, 0.29 A, 1.5  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.26 A, 1.5  $\mu$ F, 1550 r/min,  
insulation B, IP20 for K8I\*25NC-\*-\*;

25 W 240 V~, 50 Hz, 0.30 A, 1.2  $\mu$ F, 1250 r/min,  
insulation B, IP20 for K8I\*25ND-\*-\*;

40 W 220 V~, 50 Hz, 0.45 A, 2.5  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.43 A, 2.5  $\mu$ F, 1550 r/min,  
230 V~, 50 Hz, 0.50 A, 2.5  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.45 A, 2.5  $\mu$ F, 1550 r/min,  
insulation B, IP20 for K8I\*40FC-\*-\*;

40 W 220 V~, 50 Hz, 0.38 A, 2.5  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.37 A, 2.5  $\mu$ F, 1550 r/min,  
230 V~, 50 Hz, 0.40 A, 2.5  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.38 A, 2.5  $\mu$ F, 1550 r/min,  
insulation B, IP20 for K9I\*40NC-\*-\*;

40 W 240 V~, 50 Hz, 0.39 A, 2.0  $\mu$ F, 1300 r/min,  
insulation B, IP20 for K9I\*40ND-\*-\*;

60 W 220 V~, 50 Hz, 0.58 A, 4.0  $\mu$ F, 1300 r/min,

220 V~, 60 Hz, 0.57 A, 4.0  $\mu$ F, 1550 r/min,  
230 V~, 50 Hz, 0.63 A, 4.0  $\mu$ F, 1300 r/min,  
230 V~, 60 Hz, 0.63 A, 4.0  $\mu$ F, 1550 r/min,  
insulation B, IP20 for K9I\*60FC-\*-\*;  
60 W 240 V~, 50 Hz, 0.69 A, 4.0  $\mu$ F, 1250 r/min,  
insulation B, IP20 for K9I\*60FD-\*-\*;

90 W 220 V~, 50 Hz, 0.80 A, 6.0  $\mu$ F, 1300 r/min,  
220 V~, 60 Hz, 0.90 A, 6.0  $\mu$ F, 1550 r/min,  
230 V~, 50 Hz, 0.87 A, 6.0  $\mu$ F, 1300 r/min,  
230 V~, 60 Hz, 0.93 A, 6.0  $\mu$ F, 1550 r/min,  
insulation B, IP20 for K9I\*90FC-\*-\*;  
90 W 240 V~, 50 Hz, 0.85 A, 5.0  $\mu$ F, 1300 r/min,  
insulation B, IP20 for K9I\*90FD-\*-\*;

120 W 220 V~, 60 Hz, 1.0 A, 7.0  $\mu$ F, 1600 r/min,  
230 V~, 60 Hz, 1.1 A, 7.0  $\mu$ F, 1600 r/min,  
insulation B, IP20 for K9I\*120FC-\*-\*;  
120 W 220 V~, 50 Hz, 0.82 A, 7.0  $\mu$ F, 1300 r/min,  
230 V~, 50 Hz, 0.85 A, 7.0  $\mu$ F, 1300 r/min,  
insulation B, IP20 for K9I\*120FC-C50-\*-\*;  
120 W 240 V~, 50 Hz, 0.90 A, 6.0  $\mu$ F, 1300 r/min,  
insulation B, IP20 for K9I\*120FD-C50-\*-\*;

180 W 220 V~, 50 Hz, 1.58 A, 8.0  $\mu$ F, 1300 r/min,  
220 V~, 60 Hz, 1.38 A, 8.0  $\mu$ F, 1600 r/min,  
230 V~, 50 Hz, 1.70 A, 8.0  $\mu$ F, 1300 r/min,  
230 V~, 60 Hz, 1.54 A, 8.0  $\mu$ F, 1600 r/min,  
insulation B, IP20 for K9I\*180FC-\*-\*;  
180 W 240 V~, 50 Hz, 1.20A, 8.0  $\mu$ F, 1300 r/min,  
insulation B, IP20 for K9I\*180FD-\*-\*;

6 W 220 V~, 50 Hz, 0.12 A, 0.8  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.12 A, 0.8  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.15 A, 0.8  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.13 A, 0.8  $\mu$ F, 1500 r/min, insulation B, IP20, duty:30Min(S2) for K6R\*6NC-\*-\*;  
6 W 240 V~, 50 Hz, 0.12 A, 0.6  $\mu$ F, 1250 r/min, insulation B, IP20, duty:30Min(S2) for K6R\*6ND-\*-\* ;

15 W 220 V~, 50 Hz, 0.21 A, 1.5  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.24 A, 1.5  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.25 A, 1.5  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.24 A, 1.5  $\mu$ F, 1500 r/min, insulation B, IP20, duty:30Min(S2) for K7R\*15NC-\*-\* ;  
15 W 240 V~, 50 Hz, 0.25 A, 1.5  $\mu$ F, 1250 r/min, insulation B, IP20, duty:30Min(S2) for K7R\*15ND-\*-\*  
\* ;

25 W 220 V~, 50 Hz, 0.29 A, 2.0  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.34 A, 2.0  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.35 A, 2.0  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.34 A, 2.0  $\mu$ F, 1500 r/min, insulation B, IP20, duty:30Min(S2) for K8R\*25NC-\*-\* ;  
25 W 240 V~, 50 Hz, 0.32 A, 1.5  $\mu$ F, 1300 r/min, insulation B, IP20, duty:30Min(S2) for K8R\*25ND-\*-\*  
\* ;

40 W 220 V~, 50 Hz, 0.41 A, 3.0  $\mu$ F, 1300 r/min,  
220 V~, 60 Hz, 0.40 A, 3.0  $\mu$ F, 1600 r/min,  
230 V~, 50 Hz, 0.44 A, 3.0  $\mu$ F, 1300 r/min,  
230 V~, 60 Hz, 0.41 A, 3.0  $\mu$ F, 1600 r/min, insulation B, IP20, duty:30Min(S2) for K8R\*40FC-\*-\*;

40 W 220 V~, 50 Hz, 0.46 A, 3.5  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.55 A, 3.5  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.55 A, 3.5  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.58 A, 3.5  $\mu$ F, 1500 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*40NC-\*-\*;

40 W 240 V~, 50 Hz, 0.41 A, 3.0  $\mu$ F, 1300 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*40ND-\*-\*;

60 W 220 V~, 50 Hz, 0.69 A, 5.0  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.76 A, 5.0  $\mu$ F, 1550 r/min,  
230 V~, 50 Hz, 0.77 A, 5.0  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.79 A, 5.0  $\mu$ F, 1550 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*60FC-\*-\*;

60 W 240 V~, 50 Hz, 0.75 A, 5.0  $\mu$ F, 1300 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*60FD-\*-\*;

90 W 220 V~, 50 Hz, 1.00 A, 7.0  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 1.10 A, 7.0  $\mu$ F, 1550 r/min,  
230 V~, 50 Hz, 1.30 A, 7.0  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 1.10 A, 7.0  $\mu$ F, 1550 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*90FC-\*-\*;

90 W 240 V~, 50 Hz, 0.94 A, 6.0  $\mu$ F, 1250 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*90FD-\*-\*;

120 W 220 V~, 60 Hz, 1.00 A, 7.0  $\mu$ F, 1600 r/min,  
230 V~, 60 Hz, 1.10 A, 7.0  $\mu$ F, 1600 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*120FC-\*-\*;

120 W 220 V~, 50 Hz, 1.28 A, 7.0  $\mu$ F, 1250 r/min,  
230 V~, 50 Hz, 1.44 A, 7.0  $\mu$ F, 1250 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*120FC-C50-\*-\*;

120 W 240 V~, 50 Hz, 0.90 A, 6.0  $\mu$ F, 1300 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*120FD-C50-\*-\*;

180 W 220 V~, 50 Hz, 1.58 A, 8.0  $\mu$ F, 1300 r/min,  
220 V~, 60 Hz, 1.38 A, 8.0  $\mu$ F, 1600 r/min,  
230 V~, 50 Hz, 1.70 A, 8.0  $\mu$ F, 1300 r/min,  
230 V~, 60 Hz, 1.54 A, 8.0  $\mu$ F, 1600 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*180FC-\*-\*;

180 W 240 V~, 50 Hz, 1.20 A, 8.0  $\mu$ F, 1300 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*180FD-\*-\*;

# Appendix to

## CE LVD Certificate No. 4789155358

### Model/Type reference

K6R\*6NC-B-\*, K6R\*6ND-B-\*, K7R\*15NC-B-\*, K7R\*15ND-B-\*,  
K8R\*25NC-B-\*, K8R\*25NC-BA-\*, K8R\*25ND-B-\*, K8R\*25ND-BA-\*,  
K8R\*40FC-B-\*, K8R\*40FC-BA-\*,  
K9R\*40NC-B-\*, K9R\*40NC-BA-\*, K9R\*40ND-B-\*, K9R\*40ND-BA-\*, K9R\*60FC-B-\*, K9R\*60FC-BA-\*,  
K9R\*60FD-B-\*, K9R\*60FD-BA-\*,  
K9R\*90FC-B-\*, K9R\*90FC-BA-\*, K9R\*90FD-B-\*, K9R\*90FD-BA-\*,  
K9R\*120FC-B-\*, K9R\*120FC-BA-\*, K9R\*120FC-B-C50-\*, K9R\*120FC-BA-C50-\*, K9R\*120FD-B-  
C50-\*, K9R\*120FD-BA-C50-\*,  
K9R\*180FC-B-\*, K9R\*180FC-BA-\*, K9R\*180FD-B-\*,  
K9R\*180FD-BA-\* for MAGNETIC BRAKE MOTOR;

K6R\*6NC-BT-\*, K6R\*6ND-BT-\*, K7R\*15NC-BT-\*, K7R\*15ND-BT-\*,  
K8R\*25NC-BT-\*, K8R\*25NC-BT5-\*, K8R\*25ND-BT-\*,  
K8R\*25ND-BT5-\*, K8R\*40FC-BT-\*, K8R\*40FC-BT5-\*,  
K9R\*40NC-BT-\*, K9R\*40NC-BT5-\*, K9R\*40ND-BT-\*,  
K9R\*40ND-BT5-\*, K9R\*60FC-BT-\*, K9R\*60FC-BT5-\*,  
K9R\*60FD-BT-\*, K9R\*60FD-BT5-\*, K9R\*90FC-BT-\*,  
K9R\*90FC-BT5-\*, K9R\*90FD-BT-\*, K9R\*90FD-BT5-\*,  
K9R\*120FC-BT-\*, K9R\*120FC-BT5-\*, K9R\*120FC-BT-C50-\*, K9R\*120FC-BT5-C50-\*, K9R\*120FD-  
BT-C50-\*,  
K9R\*120FD-BT5-C50-\*, K9R\*180FC-BT-\*, K9R\*180FC-BT5-\*, K9R\*180FD-BT-\*, K9R\*180FD-BT5-\*,  
for TERMINAL BOX BRAKE MOTOR;

### Ratings

6 W 220 V~, 50 Hz, 0.12 A, 0.8  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.12 A, 0.8  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.15 A, 0.8  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.13 A, 0.8  $\mu$ F, 1500 r/min, insulation B, IP20, duty:30Min(S2) for K6R\*6NC-B-\*,  
K6R\*6NC-BT-\* ;

6 W 240 V~, 50 Hz, 0.12 A, 0.6  $\mu$ F, 1250 r/min, insulation B, IP20, duty:30Min(S2) for K6R\*6ND-B-\*,  
K6R\*6ND-BT-\* ;

15 W 220 V~, 50 Hz, 0.21 A, 1.5  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.24 A, 1.5  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.25 A, 1.5  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.24 A, 1.5  $\mu$ F, 1500 r/min, insulation B, IP20, duty:30Min(S2) for K7R\*15NC-  
B-\*, K7R\*15NC-BT-\* ;

15 W 240 V~, 50 Hz, 0.25 A, 1.5  $\mu$ F, 1250 r/min, insulation B, IP20, duty:30Min(S2) for K7R\*15ND-  
B-\*, K7R\*15ND-BT-\* ;

25 W 220 V~, 50 Hz, 0.29 A, 2.0  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.34 A, 2.0  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.35 A, 2.0  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.34 A, 2.0  $\mu$ F, 1500 r/min, insulation B, IP20, duty:30Min(S2) for K8R\*25NC-  
B-\*, K8R\*25NC-BA-\*,  
K8R\*25NC-BT-\*, K8R\*25NC-BT5-\* ;

25 W 240 V~, 50 Hz, 0.32 A, 1.5  $\mu$ F, 1300 r/min, insulation B, IP20, duty:30Min(S2) for K8R\*25ND-  
B-\*, K8R\*25ND-BA-\*,  
K8R\*25ND-BT-\*, K8R\*25ND-BT5-\* ;

40 W 220 V~, 50 Hz, 0.41 A, 3.0  $\mu$ F, 1300 r/min,  
220 V~, 60 Hz, 0.40 A, 3.0  $\mu$ F, 1600 r/min,  
230 V~, 50 Hz, 0.44 A, 3.0  $\mu$ F, 1300 r/min,  
230 V~, 60 Hz, 0.41 A, 3.0  $\mu$ F, 1600 r/min, insulation B, IP20, duty:30Min(S2) for K8R\*40FC-B-  
\*, K8R\*40FC-BA-\*,  
K8R\*40FC-BT-\*, K8R\*40FC-BT5-\* ;

40 W 220 V~, 50 Hz, 0.46 A, 3.5  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.55 A, 3.5  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.55 A, 3.5  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.58 A, 3.5  $\mu$ F, 1500 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*40NC-B-\*, K9R\*40NC-BA-\*,  
K9R\*40NC-BT-\*, K9R\*40NC-BT5-\* ;

40 W 240 V~, 50 Hz, 0.41 A, 3.0  $\mu$ F, 1300 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*40ND-B-\*, K9R\*40ND-BA-\*,  
K9R\*40ND-BT-\*, K9R\*40ND-BT5-\* ;

60 W 220 V~, 50 Hz, 0.69 A, 5.0  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.76 A, 5.0  $\mu$ F, 1550 r/min,  
230 V~, 50 Hz, 0.77 A, 5.0  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.79 A, 5.0  $\mu$ F, 1550 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*60FC-B-\*, K9R\*60FC-BA-\*,  
K9R\*60FC-BT-\*, K9R\*60FC-BT5-\* ;

60 W 240 V~, 50 Hz, 0.75 A, 5.0  $\mu$ F, 1300 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*60FD-B-\*, K9R\*60FD-BA-\*,  
K9R\*60FD-BT-\*, K9R\*60FD-BT5-\* ;

90 W 220 V~, 50 Hz, 1.00 A, 7.0  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 1.10 A, 7.0  $\mu$ F, 1550 r/min,  
230 V~, 50 Hz, 1.30 A, 7.0  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 1.10 A, 7.0  $\mu$ F, 1550 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*90FC-B-\*, K9R\*90FC-BA-\*,  
K9R\*90FC-BT-\*, K9R\*90FC-BT5-\* ;

90 W 240 V~, 50 Hz, 0.94 A, 6.0  $\mu$ F, 1250 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*90FD-B-\*, K9R\*90FD-BA-\*,  
K9R\*90FD-BT-\*, K9R\*90FD-BT5-\* ;

120 W 220 V~, 60 Hz, 1.00 A, 7.0  $\mu$ F, 1600 r/min,  
230 V~, 60 Hz, 1.10 A, 7.0  $\mu$ F, 1600 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*120FC-B-\*, K9R\*120FC-BA-\*,  
K9R\*120FC-BT-\*, K9R\*120FC-BT5-\* ;

120 W 220 V~, 50 Hz, 1.28 A, 7.0  $\mu$ F, 1250 r/min,  
230 V~, 50 Hz, 1.44 A, 7.0  $\mu$ F, 1250 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*120FC-C50-B-\*,  
K9R\*120FC-BA-C50-\*, K9R\*120FC-BT-C50-\*,  
K9R\*120FC-BT5-C50-\* ;

120 W 240 V~, 50 Hz, 0.90 A, 6.0  $\mu$ F, 1300 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*120FD-B-C50-\*,  
K9R\*120FD-C50-BA-\*, K9R\*120FD-BT-C50-\*,  
K9R\*120FD-BT5-C50-\* ;


180 W 220 V~, 50 Hz, 1.58 A, 8.0  $\mu$ F, 1300 r/min,  
220 V~, 60 Hz, 1.38 A, 8.0  $\mu$ F, 1600 r/min,  
230 V~, 50 Hz, 1.70 A, 8.0  $\mu$ F, 1300 r/min,  
230 V~, 60 Hz, 1.54 A, 8.0  $\mu$ F, 1600 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*180FC-B-\*, K9R\*180FC-BA-\*,  
K9R\*180FC-BT-\*, K9R\*180FC-BT5-\* ;

180 W 240 V~, 50 Hz, 1.20 A, 8.0  $\mu$ F, 1300 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*180FD-B-\*, K9R\*180FD-BA-\*,  
K9R\*180FD-BT-\*, K9R\*180FD-BT5-\* ;



# CERTIFICATE OF CONFORMITY

## Low Voltage Directive 2014/35/EU

Certificate No.	4789155358
Product	INDUCTION MOTOR
Model /Type ref.	See below Appendix Page
Holder of Certificate	GGM 22, 3 Beon-gil, Keongin-ro, Sosa-gu, Bucheon, Korea (zip 14731)
Manufacturer	GGM 178, Oksan-ro, Wonmi-ku, Bucheon, Korea (zip 14524)
Trade Mark	
Electrical Rating	See below Appendix Page
Insulation Class	Class B
Degree of Protection	See below Appendix Page
Additional Information	N/A

This is to certify that the sample(s) of the Product described above has been investigated and is presumed to be in conformity with the applicable safety objectives set out in Annex I of the Directive 2014/35/EU on the basis of compliance with the following harmonised standards:

Standard(s): EN 60034-1:2010/AC:2010

Detailed specifications of the tested and certified product are shown in the following Test Report:

Test Report Ref. No.: 4789155358

Issued Date: 2020-01-09

By: UL Korea Ltd.

The standard(s) above is listed in harmonized standards of Official Journal of the European Union and apply to the sample of product submitted by the manufacturer for conformity assessment for safety objectives, excluding the analysis and assessment of risk(s) and the manufacturing process and its monitoring. This certificate and the relevant test results apply only to the product sample(s) submitted by the manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. This certificate is to serve as a supplement to technical documents which established by the manufacturer according to Annex III of the directive. The manufacturer shall draw up a written EU declaration of conformity for a product model and keep it together with the technical documentation at the disposal of the national market surveillance authorities for 10 years after the electrical equipment has been placed on the market. The EU declaration of conformity shall identify the electrical equipment for which it has been drawn up.

This document contains 1 page.

Date: 2020-03-02

Signature:   
.....

**Churlbae Kim**

Engineering Manager

**Conformity Assessment Services**

**UL Korea Ltd.**

26<sup>th</sup> Fl. Gangnam Finance Center,

152 Teheran-ro, Gangnam-gu, Seoul, Korea

Tel: +82 2 2009 9000 Fax: +82 2 2009 9404





# Appendix to

## CE LVD Certificate No. 4789155358

### Model/Type reference

K6R\*6NC-D-\*, K6R\*6ND-D-\*, K7R\*15NC-D-\*, K7R\*15ND-D-\*,  
K8R\*25NC-D-\*, K8R\*25ND-D-\*, K8R\*40FC-D-\*, K9R\*40NC-D-\*, K9R\*40ND-D-\*, K9R\*60FC-D-\*,  
K9R\*60FD-D-\*, K9R\*90FC-D-\*, K9R\*90FD-D-\*, K9R\*120FC-D-\*, K9R\*120FD-D-C50-\*,  
K9R\*120FD-D-C50-\*, K9R\*180FC-D-\*, K9R\*180FD-D-\*,  
for SPEED CONTROL BRAKE MOTOR;

### Ratings

6 W 220 V~, 50 Hz, 0.12 A, 0.8  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.12 A, 0.8  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.15 A, 0.8  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.13 A, 0.8  $\mu$ F, 1500 r/min, insulation B, IP20, duty:30Min(S2) for K6R\*6NC-D-\* ;  
6 W 240 V~, 50 Hz, 0.12 A, 0.6  $\mu$ F, 1250 r/min, insulation B, IP20, duty:30Min(S2) for K6R\*6ND-D-  
\* ;  
15 W 220 V~, 50 Hz, 0.21 A, 1.5  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.24 A, 1.5  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.25 A, 1.5  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.24 A, 1.5  $\mu$ F, 1500 r/min, insulation B, IP20, duty:30Min(S2) for K7R\*15NC-  
D-\* ;  
15 W 240 V~, 50 Hz, 0.25 A, 1.5  $\mu$ F, 1250 r/min, insulation B, IP20, duty:30Min(S2) for K7R\*15ND-  
D-\* ;  
25 W 220 V~, 50 Hz, 0.29 A, 2.0  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.34 A, 2.0  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.35 A, 2.0  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.34 A, 2.0  $\mu$ F, 1500 r/min, insulation B, IP20, duty:30Min(S2) for K8R\*25NC-  
D-\* ;  
25 W 240 V~, 50 Hz, 0.32 A, 1.5  $\mu$ F, 1300 r/min, insulation B, IP20, duty:30Min(S2) for K8R\*25ND-  
D-\* ;  
40 W 220 V~, 50 Hz, 0.41 A, 3.0  $\mu$ F, 1300 r/min,  
220 V~, 60 Hz, 0.40 A, 3.0  $\mu$ F, 1600 r/min,  
230 V~, 50 Hz, 0.44 A, 3.0  $\mu$ F, 1300 r/min,  
230 V~, 60 Hz, 0.41 A, 3.0  $\mu$ F, 1600 r/min, insulation B, IP20, duty:30Min(S2) for K8R\*40FC-D-  
\* ;  
40 W 220 V~, 50 Hz, 0.46 A, 3.5  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.55 A, 3.5  $\mu$ F, 1500 r/min,  
230 V~, 50 Hz, 0.55 A, 3.5  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.58 A, 3.5  $\mu$ F, 1500 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*40NC-D-\* ;  
;  
40 W 240 V~, 50 Hz, 0.41 A, 3.0  $\mu$ F, 1300 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*40ND-D-\* ;  
;  
60 W 220 V~, 50 Hz, 0.69 A, 5.0  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 0.76 A, 5.0  $\mu$ F, 1550 r/min,  
230 V~, 50 Hz, 0.77 A, 5.0  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 0.79 A, 5.0  $\mu$ F, 1550 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*60FD-B-\* ;  
;

60 W 240 V~, 50 Hz, 0.75 A, 5.0  $\mu$ F, 1300 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*60FD-D-\* ;

90 W 220 V~, 50 Hz, 1.00 A, 7.0  $\mu$ F, 1250 r/min,  
220 V~, 60 Hz, 1.10 A, 7.0  $\mu$ F, 1550 r/min,  
230 V~, 50 Hz, 1.30 A, 7.0  $\mu$ F, 1250 r/min,  
230 V~, 60 Hz, 1.10 A, 7.0  $\mu$ F, 1550 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*90FC-D-\* ;

90 W 240 V~, 50 Hz, 0.94 A, 6.0  $\mu$ F, 1250 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*90FD-D-\* ;

120 W 220 V~, 60 Hz, 1.00 A, 7.0  $\mu$ F, 1600 r/min,  
230 V~, 60 Hz, 1.10 A, 7.0  $\mu$ F, 1600 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*120FC-D-\* ;

120 W 220 V~, 50 Hz, 1.28 A, 7.0  $\mu$ F, 1250 r/min,  
230 V~, 50 Hz, 1.44 A, 7.0  $\mu$ F, 1250 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*120FC-D-C50-\* ;

120 W 240 V~, 50 Hz, 0.90 A, 6.0  $\mu$ F, 1300 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*120FD-D-C50-\* ;

180 W 220 V~, 50 Hz, 1.58 A, 8.0  $\mu$ F, 1300 r/min,  
220 V~, 60 Hz, 1.38 A, 8.0  $\mu$ F, 1600 r/min,  
230 V~, 50 Hz, 1.70 A, 8.0  $\mu$ F, 1300 r/min,  
230 V~, 60 Hz, 1.54 A, 8.0  $\mu$ F, 1600 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*180FC-D-\* ;

180 W 240 V~, 50 Hz, 1.20 A, 8.0  $\mu$ F, 1300 r/min, insulation B, IP20,  
duty:30Min(S2) for K9R\*180FD-D-\* ;