

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190424-E506790  
**Report Reference** E506790-20190424  
**Issue Date** 2019-APRIL-24

**Issued to:** Boneng Transmission (SuZhou) Co Ltd  
No.100 Ruyuan Road, Xiangcheng Economic Development  
Zone  
Suzhou  
Jiangsu 215133 CHINA

**This certificate confirms that  
representative samples of**

COMPONENT - SYSTEMS, ELECTRICAL INSULATION  
FTA Thermal Class 155(F) electrical insulation system  
designated BN 155.

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 1446, Systems of Insulating Materials  
CSA C22.2 No. 0-10, Canadian Electrical Code, Part II,  
General requirements

**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.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** E507391  
**Report Reference** E507391-20190826  
**Issue Date** 2019-DECEMBER-12

**Issued to:** Boneng Transmission (SuZhou) Co Ltd  
No.100 Ruyuan Road, Xiangcheng Economic Development  
Zone  
Suzhou  
Jiangsu 215133 CHINA

**This certificate confirms that  
representative samples of**

COMPONENT - MOTORS FOR APPLIANCE  
APPLICATIONS and ELECTRIC MOTORS CERTIFIED  
FOR ENERGY EFFICIENCY

Refer to Addendum Page

Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**Standard(s) for Safety:**

eCFR - Title 10, Chapter II, Subchapter D, Part 431,  
Subpart B - Electric Motors.  
CSA C390 - Test Methods, marking requirements, and  
energy efficiency levels for three-phase induction motors.

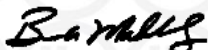
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# CERTIFICATE OF COMPLIANCE

**Certificate Number** E507391  
**Report Reference** E507391-20190826  
**Issue Date** 2019-DECEMBER-12

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model Numbers: MA080M4A55HLG-A0N00, MA080M4A75HLG-A0N00, MA090S4B11HLG-A0N00, MA090M4B15HLG-A0N00, MA100M4B22HLG-A0N00, MA100M4B30HLG-A0N00, MA112L4B40HCH-A0N00, MA132M4B55HCH-A0N00, MA132L4B75HCH-A0N00, MA160M4C11HCH-A0N00, MA160L4C15HCH-A0N00, MA180M4C18HCH-A0N00, MA180L4C22HCH-A0N00, MA200M4C30HCH-A0N00, MA225M4C37HCH-A0N00, MA225M4C45HCH-A0N00, MA250M4C55HCH-A0N00, MA280S4C75HCH-A0N00, MA280L4C90HCH-A0N00, MA063M4A12FLG-A0N00, MA063M4A18FLG-A0N00, MA071M4A25FLG-A0N00, MA071M4A37FLG-A0N00, MA080M4A55FLG-A0N00, MA080M4A75FLG-A0N00, MA090S4B11FLG-A0N00, MA090M4B15FLG-A0N00, MA100M4B22FLG-A0N00, MA100M4B30FLG-A0N00, MA112L4B40FCH-A0N00, MA132M4B55FCH-A0N00, MA132L4B75FCH-A0N00, MA160M4C11FCH-A0N00, MA160L4C15FCH-A0N00, MA180M4C18FCH-A0N00, MA180L4C22FCH-A0N00, MA200M4C30FCH-A0N00, MA225M4C37FCH-A0N00, MA225M4C45FCH-A0N00, MA250M4C55FCH-A0N00, MA280S4C75FCH-A0N00, MA280L4C90FCH-A0N00, MA071M4A25SLG-A0N00, MA071M4A37SLG-A0N00, MA080M4A55SLG-A0N00, MA080M4A75SLG-A0N00, MA090S4B11SLG-A0N00, MA090M4B15SLG-A0N00, MA100M4B22SLG-A0N00, MA100M4B30SLG-A0N00, MA112L4B40SCH-A0N00, MA132M4B55SCH-A0N00, MA132L4B75SCH-A0N00, MA080M4A55CLG-A0N00, MA080M4A75CLG-A0N00, MA090S4B11CLG-A0N00, MA090M4B15CLG-A0N00, MA100M4B22CLG-A0N00, MA100M4B30CLG-A0N00, MA112L4B40CCH-A0N00, MA132M4B55CCH-A0N00, MA132L4B75CCH-A0N00, MA080M4A55BLG-A0N00, MA080M4A75BLG-A0N00, MA090S4B11BLG-A0N00, MA090M4B15BLG-A0N00, MA100M4B22BLG-A0N00, MA100M4B30BLG-A0N00, MA112L4B40BCH-A0N00, MA132M4B55BCH-A0N00, MA132L4B75BCH-A0N00, MA160M4C11BCH-A0N00, MA160L4C15BCH-A0N00, MA180M4C18BCH-A0N00, MA180L4C22BCH-A0N00, MA200M4C30BCH-A0N00, MA225M4C37BCH-A0N00, MA225M4C45BCH-A0N00, MA250M4C55BCH-A0N00, MA280S4C75BCH-A0N00, MA280L4C90BCH-A0N00, MA063M4A12ALG-A0N00, MA063M4A18ALG-A0N00, MA071M4A25ALG-A0N00, MA071M4A37ALG-A0N00, MA080M4A55ALG-A0N00, MA080M4A75ALG-A0N00, MA090S4B11ALG-A0N00, MA090M4B15ALG-A0N00, MA100M4B22ALG-A0N00, MA100M4B30ALG-A0N00, MA112L4B40ACH-A0N00, MA132M4B55ACH-A0N00, MA132L4B75ACH-A0N00, MA160M4C11ACH-A0N00, MA160L4C15ACH-A0N00, MA180M4C18ACH-A0N00, MA180L4C22ACH-A0N00, MA200M4C30ACH-A0N00, MA225M4C37ACH-A0N00, MA225M4C45ACH-A0N00, MA250M4C55ACH-A0N00, MA280S4C75ACH-A0N00, MA280L4C90ACH-A0N00, MA080M4A55HL8-A0N00, MA080M4A75HL8-A0N00, MA090S4B11HL8-A0N00, MA090M4B15HL8-A0N00, MA100M4B22HL8-A0N00, MA100M4B30HL8-A0N00, MA112L4B40HC6-A0N00, MA132M4B55HC6-A0N00, MA132L4B75HC6-A0N00, MA160M4C11HC6-A0N00, MA160L4C15HC6-A0N00, MA180M4C18HC6-A0N00, MA180L4C22HC6-A0N00, MA200M4C30HC6-A0N00, MA225M4C37HC6-A0N00, MA225M4C45HC6-A0N00, MA250M4C55HC6-A0N00, MA280S4C75HC6-A0N00, MA280L4C90HC6-A0N00, MA063M4A12FL8-A0N00, MA063M4A18FL8-A0N00, MA071M4A25FL8-A0N00, MA071M4A37FL8-A0N00, MA080M4A55FL8-A0N00, MA080M4A75FL8-A0N00, MA090S4B11FL8-A0N00, MA090M4B15FL8-A0N00, MA100M4B22FL8-A0N00, MA100M4B30FL8-A0N00, MA112L4B40FC6-A0N00, MA132M4B55FC6-A0N00, MA132L4B75FC6-A0N00, MA160M4C11FC6-A0N00, MA160L4C15FC6-A0N00, MA180M4C18FC6-A0N00, MA180L4C22FC6-A0N00, MA200M4C30FC6-A0N00, MA225M4C37FC6-A0N00, MA225M4C45FC6-A0N00, MA250M4C55FC6-A0N00, MA280S4C75FC6-A0N00, MA280L4C90FC6-A0N00, MA071M4A25SL8-A0N00, MA071M4A37SL8-A0N00, MA080M4A55SL8-A0N00, MA080M4A75SL8-A0N00, MA090S4B11SL8-A0N00, MA090M4B15SL8-A0N00, MA100M4B22SL8-A0N00, MA100M4B30SL8-A0N00, MA112L4B40SC6-A0N00, MA132M4B55SC6-A0N00, MA132L4B75SC6-A0N00, MA080M4A55CL8-A0N00, MA080M4A75CL8-A0N00,



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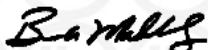
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# CERTIFICATE OF COMPLIANCE

**Certificate Number** E507391  
**Report Reference** E507391-20190826  
**Issue Date** 2019-DECEMBER-12

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190906-E508115  
**Report Reference** E508115-20190828  
**Issue Date** 2019-SEPTEMBER-06

**Issued to:** Boneng Transmission (SuZhou) Co Ltd  
No.100 Ruyuan Road, Xiangcheng Economic Development  
Zone  
Suzhou  
Jiangsu 215133 CHINA

**This certificate confirms that representative samples of** COMPONENT - MOTORS, INVERTER DUTY  
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.

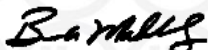
**Standard(s) for Safety:** UL 1004-1, ROTATING ELECTRICAL MACHINES -  
GENERAL REQUIREMENTS  
UL 1004-8, INVERTER DUTY MOTORS  
CSA C22.2 No. 100, MOTORS AND GENERATORS

**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.



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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190906-E508115  
**Report Reference** E508115-20190828  
**Issue Date** 2019-SEPTEMBER-06

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

## Models/Product:

Inverter Duty Motor Models, MA112L4B40HCH-F0N00, MA132M4B55HCH-F0N00, MA132L4B75HCH-F0N00, MA160M4C11HCH-F0N00, MA160L4C15HCH-F0N00, MA180M4C18HCH-F0N00, MA180L4C22HCH-F0N00, MA200M4C30HCH-F0N00, MA225M4C37HCH-F0N00, MA225M4C45HCH-F0N00, MA250M4C55HCH-F0N00, MA280S4C75HCH-F0N00, MA280L4C90HCH-F0N00, MA112L4B40FCH-F0N00, MA132M4B55FCH-F0N00, MA132L4B75FCH-F0N00, MA160M4C11FCH-F0N00, MA160L4C15FCH-F0N00, MA180M4C18FCH-F0N00, MA180L4C22FCH-F0N00, MA200M4C30FCH-F0N00, MA225M4C37FCH-F0N00, MA225M4C45FCH-F0N00, MA250M4C55FCH-F0N00, MA280S4C75FCH-F0N00, MA280L4C90FCH-F0N00, MA112L4B40SCH-F0N00, MA132M4B55SCH-F0N00, MA132L4B75SCH-F0N00, MA112L4B40CCH-F0N00, MA132M4B55CCH-F0N00, MA132L4B75CCH-F0N00, MA112L4B40BCH-F0N00, MA132M4B55BCH-F0N00, MA132L4B75BCH-F0N00, MA160M4C11BCH-F0N00, MA160L4C15BCH-F0N00, MA180M4C18BCH-F0N00, MA180L4C22BCH-F0N00, MA200M4C30BCH-F0N00, MA225M4C37BCH-F0N00, MA225M4C45BCH-F0N00, MA250M4C55BCH-F0N00, MA280S4C75BCH-F0N00, MA280L4C90BCH-F0N00, MA112L4B40ACH-F0N00, MA132M4B55ACH-F0N00, MA132L4B75ACH-F0N00, MA160M4C11ACH-F0N00, MA160L4C15ACH-F0N00, MA180M4C18ACH-F0N00, MA180L4C22ACH-F0N00, MA200M4C30ACH-F0N00, MA225M4C37ACH-F0N00, MA225M4C45ACH-F0N00, MA250M4C55ACH-F0N00, MA280S4C75ACH-F0N00, MA280L4C90ACH-F0N00, MA112L4B40HC6-F0N00, MA132M4B55HC6-F0N00, MA132L4B75HC6-F0N00, MA160M4C11HC6-F0N00, MA160L4C15HC6-F0N00, MA180M4C18HC6-F0N00, MA180L4C22HC6-F0N00, MA200M4C30HC6-F0N00, MA225M4C37HC6-F0N00, MA225M4C45HC6-F0N00, MA250M4C55HC6-F0N00, MA280S4C75HC6-F0N00, MA280L4C90HC6-F0N00, MA112L4B40FC6-F0N00, MA132M4B55FC6-F0N00, MA132L4B75FC6-F0N00, MA160M4C11FC6-F0N00, MA160L4C15FC6-F0N00, MA180M4C18FC6-F0N00, MA180L4C22FC6-F0N00, MA200M4C30FC6-F0N00, MA225M4C37FC6-F0N00, MA225M4C45FC6-F0N00, MA250M4C55FC6-F0N00, MA280S4C75FC6-F0N00, MA280L4C90FC6-F0N00, MA112L4B40SC6-F0N00, MA132M4B55SC6-F0N00, MA132L4B75SC6-F0N00, MA112L4B40CC6-F0N00, MA132M4B55CC6-F0N00, MA132L4B75CC6-F0N00, MA112L4B40BC6-F0N00, MA132M4B55BC6-F0N00, MA132L4B75BC6-F0N00, MA160M4C11BC6-F0N00, MA160L4C15BC6-F0N00, MA180M4C18BC6-F0N00, MA180L4C22BC6-F0N00, MA200M4C30BC6-F0N00, MA225M4C37BC6-F0N00, MA225M4C45BC6-F0N00, MA250M4C55BC6-F0N00, MA280S4C75BC6-F0N00, MA280L4C90BC6-F0N00, MA112L4B40AC6-F0N00, MA132M4B55AC6-F0N00, MA132L4B75AC6-F0N00, MA160M4C11AC6-F0N00, MA160L4C15AC6-F0N00, MA180M4C18AC6-F0N00, MA180L4C22AC6-F0N00, MA200M4C30AC6-F0N00, MA225M4C37AC6-F0N00, MA225M4C45AC6-F0N00, MA250M4C55AC6-F0N00, MA280S4C75AC6-F0N00, MA280L4C90AC6-F0N00, MA112L4B40HCK-F0N00, MA132M4B55HCK-F0N00, MA132L4B75HCK-F0N00, MA160M4C11HCK-F0N00, MA160L4C15HCK-F0N00, MA180M4C18HCK-F0N00, MA180L4C22HCK-F0N00, MA200M4C30HCK-F0N00, MA225M4C37HCK-F0N00, MA225M4C45HCK-F0N00, MA250M4C55HCK-F0N00, MA280S4C75HCK-F0N00, MA280L4C90HCK-F0N00, MA112L4B40FCK-F0N00, MA132M4B55FCK-F0N00, MA132L4B75FCK-F0N00, MA160M4C11FCK-F0N00, MA160L4C15FCK-F0N00, MA180M4C18FCK-F0N00,



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**Report Reference** E508115-20190828  
**Issue Date** 2019-SEPTEMBER-06

MA180L4C22FCK-F0N00, MA200M4C30FCK-F0N00, MA225M4C37FCK-F0N00, MA225M4C45FCK-F0N00, MA250M4C55FCK-F0N00, MA280S4C75FCK-F0N00, MA280L4C90FCK-F0N00, MA112L4B40SCK-F0N00, MA132M4B55SCK-F0N00, MA132L4B75SCK-F0N00, MA112L4B40CCK-F0N00, MA132M4B55CCK-F0N00, MA132L4B75CCK-F0N00, MA112L4B40BCK-F0N00, MA132M4B55BCK-F0N00, MA132L4B75BCK-F0N00, MA160M4C11BCK-F0N00, MA160L4C15BCK-F0N00, MA180M4C18BCK-F0N00, MA180L4C22BCK-F0N00, MA200M4C30BCK-F0N00, MA225M4C37BCK-F0N00, MA225M4C45BCK-F0N00, MA250M4C55BCK-F0N00, MA280S4C75BCK-F0N00, MA280L4C90BCK-F0N00, MA112L4B40ACK-F0N00, MA132M4B55ACK-F0N00, MA132L4B75ACK-F0N00, MA160M4C11ACK-F0N00, MA160L4C15ACK-F0N00, MA180M4C18ACK-F0N00, MA180L4C22ACK-F0N00, MA200M4C30ACK-F0N00, MA225M4C37ACK-F0N00, MA225M4C45ACK-F0N00, MA250M4C55ACK-F0N00, MA280S4C75ACK-F0N00, MA280L4C90ACK-F0N00, MA112L4B40HCH-F0A00, MA132M4B55HCH-F0A00, MA132L4B75HCH-F0A00, MA160M4C11HCH-F0A00, MA160L4C15HCH-F0A00, MA180M4C18HCH-F0A00, MA180L4C22HCH-F0A00, MA200M4C30HCH-F0A00, MA225M4C37HCH-F0A00, MA225M4C45HCH-F0A00, MA250M4C55HCH-F0A00, MA280S4C75HCH-F0A00, MA280L4C90HCH-F0A00, MA112L4B40FCH-F0A00, MA132M4B55FCH-F0A00, MA132L4B75FCH-F0A00, MA160M4C11FCH-F0A00, MA160L4C15FCH-F0A00, MA180M4C18FCH-F0A00, MA180L4C22FCH-F0A00, MA200M4C30FCH-F0A00, MA225M4C37FCH-F0A00, MA225M4C45FCH-F0A00, MA250M4C55FCH-F0A00, MA280S4C75FCH-F0A00, MA280L4C90FCH-F0A00, MA112L4B40SCH-F0A00, MA132M4B55SCH-F0A00, MA132L4B75SCH-F0A00, MA112L4B40CCH-F0A00, MA132M4B55CCH-F0A00, MA132L4B75CCH-F0A00, MA112L4B40BCH-F0A00, MA132M4B55BCH-F0A00, MA132L4B75BCH-F0A00, MA160M4C11BCH-F0A00, MA160L4C15BCH-F0A00, MA180M4C18BCH-F0A00, MA180L4C22BCH-F0A00, MA200M4C30BCH-F0A00, MA225M4C37BCH-F0A00, MA225M4C45BCH-F0A00, MA250M4C55BCH-F0A00, MA280S4C75BCH-F0A00, MA280L4C90BCH-F0A00, MA112L4B40ACH-F0A00, MA132M4B55ACH-F0A00, MA132L4B75ACH-F0A00, MA160M4C11ACH-F0A00, MA160L4C15ACH-F0A00, MA180M4C18ACH-F0A00, MA180L4C22ACH-F0A00, MA200M4C30ACH-F0A00, MA225M4C37ACH-F0A00, MA225M4C45ACH-F0A00, MA250M4C55ACH-F0A00, MA280S4C75ACH-F0A00, MA280L4C90ACH-F0A00, MA112L4B40HC6-F0A00, MA132M4B55HC6-F0A00, MA132L4B75HC6-F0A00, MA160M4C11HC6-F0A00, MA160L4C15HC6-F0A00, MA180M4C18HC6-F0A00, MA180L4C22HC6-F0A00, MA200M4C30HC6-F0A00, MA225M4C37HC6-F0A00, MA225M4C45HC6-F0A00, MA250M4C55HC6-F0A00, MA280S4C75HC6-F0A00, MA280L4C90HC6-F0A00, MA112L4B40FC6-F0A00, MA132M4B55FC6-F0A00, MA132L4B75FC6-F0A00, MA160M4C11FC6-F0A00, MA160L4C15FC6-F0A00, MA180M4C18FC6-F0A00, MA180L4C22FC6-F0A00, MA200M4C30FC6-F0A00, MA225M4C37FC6-F0A00, MA225M4C45FC6-F0A00, MA250M4C55FC6-F0A00, MA280S4C75FC6-F0A00, MA280L4C90FC6-F0A00, MA112L4B40SC6-F0A00, MA132M4B55SC6-F0A00, MA132L4B75SC6-F0A00, MA112L4B40CC6-F0A00, MA132M4B55CC6-F0A00, MA132L4B75CC6-F0A00, MA112L4B40BC6-F0A00, MA132M4B55BC6-F0A00, MA132L4B75BC6-F0A00, MA160M4C11BC6-F0A00, MA160L4C15BC6-F0A00, MA180M4C18BC6-F0A00, MA180L4C22BC6-F0A00, MA200M4C30BC6-F0A00, MA225M4C37BC6-F0A00, MA225M4C45BC6-F0A00, MA250M4C55BC6-F0A00, MA280S4C75BC6-F0A00, MA280L4C90BC6-F0A00, MA112L4B40AC6-F0A00, MA132M4B55AC6-F0A00, MA132L4B75AC6-F0A00, MA160M4C11AC6-F0A00, MA160L4C15AC6-F0A00, MA180M4C18AC6-F0A00, MA180L4C22AC6-F0A00, MA200M4C30AC6-F0A00, MA225M4C37AC6-F0A00, MA225M4C45AC6-F0A00, MA250M4C55AC6-F0A00, MA280S4C75AC6-



Bruce Mahrenholz, Director North American Certification Program

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# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20190906-E508115  
**Report Reference** E508115-20190828  
**Issue Date** 2019-SEPTEMBER-06

F0A00, MA280L4C90AC6-F0A00, MA112L4B40HCK-F0A00, MA132M4B55HCK-F0A00, MA132L4B75HCK-F0A00, MA160M4C11HCK-F0A00, MA160L4C15HCK-F0A00, MA180M4C18HCK-F0A00, MA180L4C22HCK-F0A00, MA200M4C30HCK-F0A00, MA225M4C37HCK-F0A00, MA225M4C45HCK-F0A00, MA250M4C55HCK-F0A00, MA280S4C75HCK-F0A00, MA280L4C90HCK-F0A00, MA112L4B40FCK-F0A00, MA132M4B55FCK-F0A00, MA132L4B75FCK-F0A00, MA160M4C11FCK-F0A00, MA160L4C15FCK-F0A00, MA180M4C18FCK-F0A00, MA180L4C22FCK-F0A00, MA200M4C30FCK-F0A00, MA225M4C37FCK-F0A00, MA225M4C45FCK-F0A00, MA250M4C55FCK-F0A00, MA280S4C75FCK-F0A00, MA280L4C90FCK-F0A00, MA112L4B40SCK-F0A00, MA132M4B55SCK-F0A00, MA132L4B75SCK-F0A00, MA112L4B40CCK-F0A00, MA132M4B55CCK-F0A00, MA132L4B75CCK-F0A00, MA112L4B40BCK-F0A00, MA132M4B55BCK-F0A00, MA132L4B75BCK-F0A00, MA160M4C11BCK-F0A00, MA160L4C15BCK-F0A00, MA180M4C18BCK-F0A00, MA180L4C22BCK-F0A00, MA200M4C30BCK-F0A00, MA225M4C37BCK-F0A00, MA225M4C45BCK-F0A00, MA250M4C55BCK-F0A00, MA280S4C75BCK-F0A00, MA280L4C90BCK-F0A00, MA112L4B40ACK-F0A00, MA132M4B55ACK-F0A00, MA132L4B75ACK-F0A00, MA160M4C11ACK-F0A00, MA160L4C15ACK-F0A00, MA180M4C18ACK-F0A00, MA180L4C22ACK-F0A00, MA200M4C30ACK-F0A00, MA225M4C37ACK-F0A00, MA225M4C45ACK-F0A00, MA250M4C55ACK-F0A00, MA280S4C75ACK-F0A00, MA280L4C90ACK-F0A00,



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