

General Information



Safety Standards	G-2	Safety Standards
List of Safety Standard Approved Products	G-10	List of Safety Standard Approved Products
ISO9001/ISO14001	G-26	ISO9001/ISO14001
Global Power Supply Voltages	G-27	Global Power Supply Voltages
Product Line Updates	G-28	Product Line Updates
Product Index	G-31	Product Index
Oriental Motor Corporate Overview	G-59	Oriental Motor Corporate Overview
Oriental Motor Global Sales Network	G-60	Oriental Motor Global Sales Network
Product Recommendation Information Sheets	G-61	Product Recommendation Information Sheets
Conversion Charts	G-67	Conversion Charts

Safety Standards

The safety of the component parts is an important consideration in equipment design. However, a part-by-part analysis of component quality and design is too time consuming for design and quality personnel. To get around this problem, safety standards have been designed to assure component safety. The following section describes the safety standards with which Oriental Motor is concerned.

■ Safety Standards

● UL Standards (United States)



UL, or Underwriters Laboratories Inc., is a non-profit testing organization that was founded in 1894 by a group of American fire insurance companies.

Their aim was to prevent loss of human life and damage to property from fires and other hazards by ensuring that machinery, tools and materials were safe. To this end, UL developed a

variety of tests and research methods for machinery, tools and materials, which resulted in the compilation of the UL standards. These standards are used for common items such as electronic equipment, motor-powered devices and electronic parts. The most important aspect to the UL standards for a manufacturer is that legal provisions in many American states require that such products must have passed the relevant UL safety tests and be listed in the UL Directory before being offered for sale. Although some states do not explicitly require UL-listing by law, there are cases where insurers refuse to cover the risk of fire or damage caused by a product that is not UL-listed. This is almost equivalent to the legal sales restrictions in the other states, and under such circumstances the customer will obviously only purchase items that are UL-listed. For a product that is to be sold in the United States, recognition or listing by UL is recommended.

Also, UL has been accredited as a verification agency by the Standards Council of Canada (SCC) and is recognized by all Canadian provinces. Therefore, it is possible to have testing for Canadian safety standards performed at UL. Products that are recognized as conforming with Canadian safety standards can display the c-UL mark, and their sale and use is permitted in Canada.

● CSA Standards (Canada)



CSA stands for "Canadian Standards Association", a private, non-profit testing organization established after an inquiry by the Canadian government. To protect human life and property from fire hazard and accidents, provincial laws in Canada forbid the sale and use

of any electrical machinery, electrical parts, and so on, unless its safety has been confirmed by CSA. For this purpose, CSA has established standards detailing mandatory tests and requirements to ascertain component safety.

Also, the CSA has been accredited by the United States Occupational Safety and Health Administration (OSHA) as a national research and testing laboratory (NRTL) and is now able to undertake testing under American safety standards. Products that are recognized as conforming with American safety standards may display the CSA mark with NRTL added, and their sale and use is permitted in the United States.

● EN Standards (EU member states)



The European Union continues to coordinate the industrial and safety standards of individual member states under the aegis of the Council of European Standardization (CEN) and the Council of European Electrical Standardization (CENELEC). The unified standards for all of Europe are called the Harmonized Standards. The numbers for Harmonized Standards all begin with an "EN". EN standards apply

to the design and manufacture of products exported to the EU area. (IEC and VDE standards apply when an EN standard has not yet been enacted.)

Certification is given by private inspection organizations such as TÜV Rheinland, VDE and DEMKO. Qualifying products may display the various safety marks.

● Electrical Appliance and Material Safety Law



Effective April 1, 2002, Japan's Electrical Appliance and Material Control Law was revised and renamed the "Electrical Appliance and Material Safety Law". The purpose of the new law is to prevent the occurrence of danger and trouble resulting from electrical appliances and materials by

regulating the manufacture, sale and other activities involving electrical appliances and materials, while promoting the voluntary efforts of private businesses in order to ensure their safety. Accordingly, the authorizations (tests) and other safety checks, which under the old law were conducted directly by the government, have become the responsibility of the manufacturers, etc., which must now ensure the safety of their own products through the introduction of a third-party certification system. The Electrical Appliance and Material

Safety Law applies to the electrical appliances and materials generally used in homes, offices, etc. They are classified into two categories— "special electrical appliances and materials" and "products other than special electrical appliances and materials" –according to the level of danger they present. Special electrical appliances and materials are subject to compliance tests and the retention of compliance certificates performed/issued by the Japan Electrical Safety & Environment Technology Laboratories (JET) or other test laboratory certified (or approved) by the Ministry of Economy, Trade and Industry, and must also bear the diamond-shape PSE mark. Products other than special electrical appliances and materials must comply with the relevant technical standards and bear the circular PSE mark.

■ Standards for Motors and Fans

The following is a listing of the standards pertaining to electrical motors and fans.

● UL Standards

◆ UL1004: Electric Motors

Establishes general requirements for all types of electrical motors.

◆ UL2111: Overheating Protection for Motors

Establishes requirements for overheating protection for motors. Previously, requirements for impedance protected motors were established under UL519 while requirements for thermal protectors for motors were established under UL547. UL2111 was published on March 28, 1997, combining UL519 and UL547, and partially harmonizing C22.2 No. 77 (Motors with Inherent Overheating Protection) under the CSA standards.

◆ UL507: Electric Fans

Establishes general requirements for electrical fans and blowers that have an input voltage of 600V or lower. Note that motor parts of fans and blowers must also comply with requirements of UL2111 and UL1004.

◆ UL60950-1 (=IEC60950-1):

Safety of Information Technology Equipment

This standard covers information technology equipment, including electrical business equipment.s

● CSA Standards

◆ C22.2 No.100: Motors and Generators

Establishes general requirements for motors.

◆ C22.2 No.77: Motors with Inherent Overheating Protection

Establishes special requirements for motors with inherent overheating protection that supplement those of C22.2 No.100.

◆ C22.2 No.60950-1:

Safety of Information Technology Equipment

This standard covers information technology equipment, including electrical business equipment.

◆ C22.2 No.113: Fans and Ventilators

Establishes general requirements for fans.

● EN Standards

VDE, TÜV and DEMKO approved motors and fans are evaluated in accordance with the items required for motors under the following standards. Forty-eight hour humidity experiments are conducted in addition to experiments with motor and fan characteristics.

◆ EN60034 (= IEC60034, DIN VDE0530)

Rotating Electrical Machines

Stipulates general requirements for motors.

◆ EN60950-1 (= IEC60950-1)

Safety of Information Technology Equipment

This standard covers information technology equipment, including electrical business equipment.

● IEC Standards

Shown below are two standards for motors and fans under the IEC standards.

◆ IEC60034 (=DIN VDE0530)

Rotating Electrical Machines

Establishes general requirements for motors. There are over 20 parts, and IEC60034 covers some parts which are not yet published by EN60034.

◆ IEC60664 (=DIN VDE0110)

Insulation Coordination for Equipment within Low-Voltage-Systems

Stipulates insulation distances for motors.

■ Standards for Control Circuits

● UL Standards

◆ UL508: Industrial Control Equipment

This standard covers industrial control devices used to start, stop, regulate, control, or protect motors. This standard covers speed control packs.

◆ UL508C: Power Conversion Equipment

This standard covers equipment used to supply power to control motors activated by a frequency or voltage which is different than the input supply voltage. This standard covers drivers.

◆ UL1917: Solid-State Fan Speed Controls

These are standards for control of single-phase 300V max variable speed fans.

◆ UL60950-1 (=IEC60950-1)

Safety of Information Technology Equipment

This standard covers information technology equipment, including electrical business equipment.

● CSA Standards

◆ C22.2 No.14: Industrial Control Equipment

This standard covers industrial control equipment used to start, stop, regulate, control or protect motors. This standard covers speed control packs and drivers.

◆ C22.2 No.113: Fans and Ventilators

Establishes general requirements for fans.

● EN and Other Standards

The speed control packs and drivers approved by VDE, TÜV and DEMKO conform to the following standards.

◆ EN60950-1 (=IEC60950-1)

Safety of Information Technology Equipment

This standard covers information technology equipment, including electrical business equipment.

◆ EN50178 (Overvoltage test, EMC excluded)

Electric equipment for use in power installations

General regulation of electronic equipment that can be used in power facilities.

◆ DIN VDE0160 (Overvoltage test, EMC excluded)

Electric equipment use in electrical power installations and assembly into electrical power installations

This standard covers electric equipment use in electrical power installations and assembly into electrical power installations.

JIS: Japanese Industrial Standards

National standards for Japanese mining and manufacturing industries.

IEC: International Electrotechnical Commission

The IEC promotes unification and coordination of international standards on electrical and electronic equipment. IEC standards are issued with the ultimate goal of having individual countries reflect international standards within their own standards.

DIN: Deutsches Institute für Normung e. V.

The German standards association. Its standards range from basic to wide-ranging standards that cover all industrial fields.

VDE: Verband Deutscher Elektrotechniker e. V.

This German association of electrical engineers enacts safety standards for electricity that are issued as DIN-VDE standards.

■ Safety Considerations and Tests

A comparison of the items evaluated by various testing agency reveals that there are a few points of particular concern for motors and fans.

● Construction

◆ Devices to Prevent Overheating

UL, CSA, EN and IEC standards require that any equipment using a motor also possess a device to protect the motor from overheating which can be caused by overload, intentional or unintentional locking of the rotor, etc. All Oriental Motor approved products include impedance protection or thermal protectors in the motor (brushless DC motors excluded).

◆ Insulation Materials

Oriental Motor's motors and fans have class E insulation (World **K** Series, **V** Series, and **BH** Series have class B insulation). The insulation class indicates the division of heat-resistant grades, and is specified as shown in the table below by JIS C4003 (IEC60085).

Also, the insulation is certified as class E by EN/IEC standards (World **K** Series, **V** Series, and **BH** Series are class B) but recognized as class A by UL and CSA standards (World **K** Series, **V** Series, and **BH** Series are class B).

Table 1: Insulation Class and Temperature

Insulation Class	Maximum Temperature
Class Y	194°F (90°C)
Class A	221°F (105°C)
Class E	248°F (120°C)
Class B	266°F (130°C)
Class F	311°F (155°C)
Class H	356°F (180°C)

Table 2: Insulation Materials

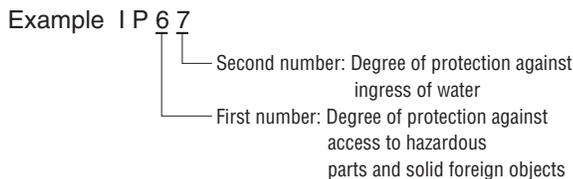
Safety Standard	Insulation Materials
Japanese Safety Standards for Electrical Equipment (Fans)	Insulation materials that are registered or temporarily registered with the Japan Electrical Equipment Laboratory, the material experiment organization for the Japanese Safety Standard for Electrical Equipment, and have been assigned a heat resistance grade of class E [248°F (120°C)] are used.
UL Standards (Motors) CSA Standards (Fans)	All grommets, lead wires and some slot insulations are approved products while all other insulation materials satisfy UL and CSA standard requirements.
EN Standards (Motors) IEC Standards (Fans)	The insulation materials satisfy EN and IEC standard requirements.

◆ Minimum Spacing Between Live Materials

To prevent accidents caused by short circuits between live materials or between live materials and user-accessible materials (normally not live materials), minimum spacing distances between such materials have been defined. All Oriental Motor products comply with the relevant requirements.

◆ **Degree of Protection**

IEC60529 and EN60034-5 (=IEC60034-5) classify the dust-resistance and waterproofing into grades. The test methods are shown below. A third-party certification body has certified that Oriental Motor's watertight motor **FPW Series** confirms to IP67.



An "X" is used when one of the two protection classes is not specified in the name (e.g., IPX5 or IP4X).

Table 3: Meanings of Markings and Testing Conditions

IP Code	Degree of protection against access to hazardous parts and against solid foreign objects	
First Number	Description	Definition and Test Conditions
IP0X	None	None
IP1X	Protection against approach by hands	Cannot be penetrated by a solid object 1.97 in. (50 mm) or more in diameter.
IP2X	Protection against approach by fingers	Cannot be penetrated by a solid object 0.79 in. (12 mm) or more in diameter.
IP3X	Protection against tips of tools, etc.	Cannot be penetrated by a solid object 0.09 in. (2.5 mm) or more in diameter.
IP4X	Protection against wire, etc.	Cannot be penetrated by a solid object 0.04 in. (1.0 mm) or more in diameter.
IP5X	Protection against dust	Cannot be penetrated by dust that could interfere with normal operation.
IP6X	Completely dust-proof design	Cannot be penetrated by dust

IP Code	Degree of protection against ingress of water	
Second Number	Description	Definition and Test Conditions
IPX0	None	None
IPX1	Protection against water drops falling vertically.	Water drops falling at a rate of 3 to 5 mm/min. from a height of 7.87 in. (200 mm) for 10 minutes.
IPX2	Protection against water drops falling vertically over a 15° range.	Water drops falling over a 15° range at a rate of 3 to 5 mm/min. from a height of 7.87 in. (200 mm) for 10 minutes.
IPX3	Protection against water drops falling vertically over a 60° range.	Water drops falling over a 60° range at a rate of 10 ℓ /min. from a height of 7.87 in. (200 mm) for 10 minutes.
IPX4	Protection from spray of water from all directions.	Water sprayed from all directions from a distance of 11.81 in. (300 mm) to 11.69 in. (500 mm) at a rate of 10 ℓ /min. for 10 minutes.
IPX5	Protection against jets of water from all directions.	Jets of water sprayed from a distance of 9.84 ft. (3 m) from all directions at a rate of 12.5 ℓ /min. at a pressure of 30 kPa for 3 minutes.
IPX6	Protection against strong wave-like jets of water.	Jets of water sprayed from a distance of 9.84 ft. (3 m) from all directions at a rate of 100 ℓ /min. at a pressure of 100 kPa for 3 minutes.
IPX7	Usable after immersion in water under fixed conditions.	Immersion to a depth of 3.3 ft. (1 m) for 30 minutes.
IPX8	Usable under water	Determined through cooperation between user and manufacturer.

◆ **Capacitor**

Capacitors, supplied with single-phase AC motors and fans, are approved separately from the motor or fan.

◆ **Motor Fan Protective Gear (Finger Guards)**

When a fan is used in a device, measures must be taken to protect people from harm.

Oriental Motor finger guards are designed to pass all tests stipulated under the UL Standards, CSA Standards and Japanese Safety Standards for Electrical Equipment when used on a compatible product.

(Protective gear cannot be certified as stand-alone equipment, since it is used when installed on another product as an accessory.)

◆ **Plug Cord for Connecting Power Supply**

The optional plug cord that can be used with the **MU** Series of fans is recognized by UL (unlisted component) and certified by CSA. Also **PCA2B** is certified by JET.

● **Performance**

◆ **Temperature Test**

Test Item	Standard
	UL2111, CSA C22.2 No.77 (Class A/Class B)
Overload operation test for thermal-protected motor	Winding temperature is 284°F (140°C) /329°F (165°C) or less when temperature is stabilized and the thermal protector does not work with applying maximum load.
Locked-rotor temperature rise test for impedance-protected motor	Winding temperature is 302°F (150°C) /347°F (175°C) or less when a 72-hour locked-rotor test is performed at a test voltage of 120 V or 240 V (when rated voltages are 115 V or 230 V) with rated capacitor connected, rotor locked or capacitor short-circuited. No deterioration on insulation material of the windings after above test.
Locked-rotor temperature rise test for thermally-protected motor	Winding temperature is in the following range when 72-hour locked-rotor test is performed at a test voltage of 115 V or 240 V (when rated voltages are 115 V or 230 V) with rated capacitor connected. · Maximum temperature in first hour is 392°F (200°C) /437°F (225°C) or less. · Maximum temperature after one hour is 347°F (175°C) /392°F (200°C) or less. · Calculated average value of maximum temperature and minimum temperature after one hour is 302°F (150°C) /347° (175°C) or less.

- For winding temperature rise, Oriental Motor products are designed to meet the UL standard and CSA standard for Class A insulation. The insulation material is also a Class E heat-resistant grade under the Electrical Appliance and Material Safety Law (World **K** Series, **V** Series and **BH** Series are Class B).
- The following are tested by the Electrical Appliance and Material Safety Law:
 Rated operation: The constant winding temperature reached for rated operation must be no greater than 239°F (115°C).
 Rotor constraint protection performance: When the test piece is placed on a wooden table at least 10 mm thick and covered with gauze, and the constraint test is run at rated frequency and rated voltage until the temperature stabilizes, the test piece, wooden table and gauze must not burn and the insulation resistance at 500 V must be 0.1 MΩ min.
- Temperature tests are stipulated in the EN and IEC standards (Class E insulation. World **K** Series, **V** Series and **BH** Series are Class B). Oriental Motor products have all been certified to perform normally in these tests.

◆ **Endurance Test**

Test Item	Standard
	UL2111, CSA C22.2 No.77
Endurance test for impedance-protected motor	No deterioration on insulation material of windings when continuing the locked-rotor test for another 15 days after the aforementioned 72-hour locked-rotor test for a total of 18 days. (UL60950 required another 12 days, total 15 days locked-rotor test) a) No deterioration on insulation material of windings. b) The fuse in the grounding conductor shall not open. c) The motor shall still electrically operate.
Endurance test for thermal-protected motor	No deterioration on insulation material of windings when continuing the locked-rotor test for another 15 days after the aforementioned 72-hour locked-rotor test for a total of 18 days. a) No deterioration on insulation material of windings. b) The fuse in the grounding conductor shall not open. c) The motor shall still electrically operate.

- The UL and CSA standards cover the endurance tests as noted above. These rules were established to prevent motors and fans from burn-out when they are locked.
- All Oriental Motor approved products passed these tests. Our approved fans employ high-grade (V-0) non-flammable resins for the fan blades.
- Temperature tests are stipulated in the EN and IEC standards (Grade E insulation). Oriental Motor products have all been certified to perform normally in these tests.

◆ **Dielectric Voltage - Withstand Test**

All motors and fans are sufficient to withstand this test, which is carried out by applying the voltage listed in the table below between the motor case and lead wires, without insulation breakdown.

Test Item	Standard	Electrical Appliance and Material Safety Law	UL Standard	CSA Standard
Less than 150 V		1000 V 1 minute	60Hz, 1000 V, 1minute	60Hz, 1000 V, 1minute
Over 150 V		1500 V 1 minute	Common to impedance-protected and thermally-protected motors	Common to impedance-protected and thermally-protected motors

- The EN and IEC standards stipulate 1500 V for 1 minute.

Evidence of Product Approval

Approved Mark

The following marks are indicated on the nameplates of approved products.

● Japanese Safety Standards for Electrical Equipment Certified by Japan Electrical Safety & Environment Technology Laboratories 

● UL recognized component 

● Recognized to Canadian safety requirements under the component Recognition Program of Underwriters Laboratories Inc. 

● Recognized to Canadian Safety requirements and UL under the component Recognition Program of Underwriters Laboratories Inc. 

● CSA certified component 

● EN and IEC certified component (indicates that VDE, TÜV Rheinland or DEMKO has certified that the product meets EN or IEC standards.) 





Factory Inspection

Even after a product has been recognized or certified, UL and CSA inspectors verify continued compliance of products and manufacturing process with the relevant standards by regular visits to the factory.

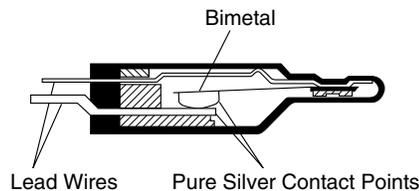
UL:	Four times a year	VDE:	Once a year
CSA:	Twice a year	DEMKO:	Once a year
TÜV:	Once a year	JET:	Once a year

Overheating Protection Devices

Overheating may be caused by overload, no load or extremely small load, intentional or unintentional locking of the rotor, or use in very high ambient temperatures. This results in a drastic shortening of the life of the insulation system or, in extreme cases, fire. To prevent degeneration of the insulation materials and burning out the windings as a result of overheating or rotor locking, Oriental Motor products approved by UL, CSA, EN and IEC standards are equipped with the following overheat protection devices.

Thermally Protected Motors

AC motors with a frame size of 2.76 in. sq. (70 mm sq.), 3.15 in. sq. (80 mm sq.), and 3.54 in. sq. (90 mm sq.), and AC fans **MRS** Series, **MB** Series [impeller dia. 3.15 in. (φ80 mm) or larger], and **MF** Series contain a built-in automatic reset thermal protector. The construction of a thermal protector is shown in the following figure.



The thermal protectors employ a bimetal contact, using pure silver. Pure silver has the lowest electrical resistance of all materials and has thermal conductivity second only to copper.

Operating temperature of thermal protector

Open: 248°F±9°F (120°C±5°C) or 266°F±9°F (130°C±5°C)
Close: 170.6°F±59°F (77°C±15°C) or 179.6°F±59°F (82°C±15°C)

Motor winding temperature where the thermal protector is working is slightly higher than the operating temperature listed above.

Impedance Protected Motors and Fans

Impedance protection is used in AC motors with frame sizes smaller than 2.36 in. sq. (60 mm sq), and AC fans **MU** Series, **MB** Series [impeller φ2.36 in. (φ60 mm) or smaller], and the **SMK** Series. Impedance protected motors are designed with higher impedance in the motor windings so that even if the motor locks, the increase in current (input) is reduced and temperature does not rise beyond a certain constant level.

Brushless DC Motors

The motor and driver are equipped with overloading and overheating protection features to control temperature rises by cutting off the input current from the driver to the motor when a malfunction occurs.

Stepping Motors

Stepping motors are designed with impedance protection in case they are stopped with five-phase excitation (with the rated current flowing).

DC Fans

These fans include solid state control circuitry that incorporates a limiting, current shut-down circuit, which controls the fan during locked rotor conditions.

Safety Standards

List of Safety Standard Approved Products

ISO 9001/ISO 14001

Global Power Supply Voltages

Product Line Updates

Product Index

Oriental Motor Corporate Overview

Oriental Motor Global Sales Network

Product Recommendation Information Sheets

Conversion Charts

■ CE Marking

To distribute equipment within the European Union, the CE marking is mandatory for certifying that the equipment complies with EC Directives (safety).

To obtain a ruling that the equipment satisfies the required items of each directive, the manufacturer must usually verify that the equipment complies with the EN standards applicable to the EC Directives or, if not available, with the IEC standards. The manufacturer then composes a declaration stating compliance with the directives and applies the CE marking.

(However, depending on the risk of danger, formal testing by an approving authority may be required and the self-composed declaration is then issued after receiving proof of formal testing.)

Products with a declaration of voluntary compliance have the following mark either on the nameplate or on the package label.



The major scope of compliance and period of obligation are as follows:

Machinery directives: 98/37/EC

Applicable to equipment with moving parts that could cause human injury. (Mandatory as of 1 January 1995) 89/392/EEC, 91/368/EEC, 93/44/EEC have been newly issued as 98/37/EC.

EMC directives: 89/336/EEC, 92/31/EEC

Applicable to equipment that could cause electromagnetic interference (EMI) and equipment that could be affected by electromagnetic interference (EMS). (Mandatory as of 1 January 1996)

Low voltage directive: 73/23/EEC

Applicable to equipment used with 50-1000 VAC or 75-1500 VDC. (Mandatory as of 1 January 1997)

● The Advantages of Approved Components

Under EC Directives, not all components in a device or piece of equipment have to be approved. However, when nonapproved components are used, the manufacturer of the equipment must evaluate and verify the safety of the component itself. If approved components are used, the manufacturer has the advantage of the benefits listed below:

- 1) Simplified component safety evaluation
- 2) Simplified documentation and testing when lodging equipment standards applications with an approving authority

● Oriental Motor's Approach to CE Marking

To ensure that the company's products comply with the low voltage directives, we have issued a declaration of voluntary compliance with the standards imposed by the approving authorities within the EU (or a declaration of voluntary compliance based on EN standard).

Our view is that the EMC Directives do not directly pertain to our products themselves since all of Oriental Motor sales are to equipment manufacturers. The controllers used in the

company's products and equipment, as well as equipment as a whole, including electrical components, are subject to the EMC Directives. Additionally, since the properties of equipment in relation to EMC Directives will vary depending upon the controller, electrical component configuration, wiring, general configuration and level of danger, clients should verify compliance with EMC Directives themselves. When a client is using our products in other equipment, Oriental Motor will provide methods such as adequately efficient filters and ferrite cores required by EMC measures. AC motors and AC fans are outside the range of applicability of EMC Directives because it has been judged both theoretically and experimentally that there is no influence on emissions or immunity. Also, DC fans that function alone conform to EMC Directives.

● Compliance ①

Oriental Motor's products have received the following VDE, TÜV Rheinland and DEMKO approval.

For the recognized or certified model name, see the list starting on page G-10.

* Refer to page G-2 for the details of applicable standards of Oriental Motor's recognized or certified products. Clients should inquire at their local Oriental Motor sales office when a copy of the company's product approval or declaration of voluntary compliance with the low voltage directives is required for lodging an application with approving authorities.

● Installation Conditions ②

The following installation conditions must be rigidly adhered to in order to ensure that products are used with greater safety.

- Over voltage: Category II (For AC input products)*
- Pollution Degree: Class 2 (Products with the protection class of IP54 can be used in pollution degree of class 3.)
- Protective Structure: It depends upon the models. See the following pages for details.

* For **BH** Series (with terminal box, single-phase 110 V/115 V, single-phase 220 V/230 V type) and **AXU** Series, Over voltage category: III

● Protection Against Electrocutation ③

Oriental Motor products are designed with Class I Equipment basic insulation. When being used, the following must always be observed:

- 1) Install products inside protective grounded enclosures so that they are out of the direct reach of users.
or
- 2) Always ground any product housing that is within the direct reach of users. Be sure to ground any product using the Protective Earth terminal.

Equipment with DC input is designed with Class III Equipment structure. The power should be supplied from the primary winding and a safety power supply with reinforced insulation.

①

● Generally, EN60204 applies to electricity in industrial equipment and EN60950 applies to electrical business equipment and information technology equipment. EN60204 satisfies the requirements of EN60034-1 (IEC60034-1) but, for the incorporation of equipment, EN60950-conforming motors can be handled likewise.

②

● Overvoltage Category*

This signifies the size of the shock produced at an input power terminal to which the equipment is directly connected.

Category **I** : Circuits, secondary circuits on transformers in industrial machinery, home appliances powered by commercial electrical power, office equipment and other power sources where major overvoltage is not produced.

Category **II** : Power supplies from primary circuits on transformers, general plant control panels and other power sources where major overvoltage is anticipated.

* The term "Installation Category" has been replaced with "Overvoltage Category".

● Pollution Degree

This signifies the level of pollution in the environment where the equipment can be used

Degree 1: No possibility of machine contamination through pollution because the environment is normally clean, dry and completely free of pollutant particles (inside packed with plastic, etc.)

Degree 2: Possible machine contamination through pollution due to the presence of charged particles with moderate pollutant forming tendencies (homes, offices, research laboratories).

Degree 3: Charged particles will contaminate machinery (boiler rooms and general plants).

In the event that the construction of the equipment creates internal pollution in equipment in a Degree 2 environment, that equipment must be designed to comply with a lower degree.

● Degree of protection (Degree of protection: signified by IP Code) This refers to the grade of dust-resistance and waterproofing of equipment (IEC60529).

Equipment can be given a higher IP grade by providing protection with an appropriate enclosure.

● Oriental Motor's motors have been assessed under EN60034-5 (IEC60034-5, IEC60529).

③

● Methods of protection against electrocution by equipment are divided into the following protection classes (Protection Class).

Class **I** Equipment:

Equipment with basic insulation and protective grounding for protection against electrocution; at sections where electrocution is a possible danger, protection against electrocution should be provided through protective grounding in case the basic installation is damaged.

Class **II** Equipment:

Equipment for which reinforced insulation or double insulation, consisting of the basic insulation plus extra insulation, is used as an added precaution. Therefore, there is no protective grounding as in Class **II** equipment.

Class **III** Equipment:

Equipment for which all the power is fed from a SELV circuit. Therefore, no danger of electrocution exists.

List of Safety Standard Approved Products

The file No. in the table indicates the registration number of the product. Last updated May 2005

World K Series Induction Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft				Certification Body	Licence No. or Certificate No.	
2IK6GN-AW	2IK6A-AW	Impedance Protection	E64199	IP20	VDE	114919	A-20
2IK6GN-AWT	2IK6A-AWT	Impedance Protection	E64199	IP54 *1	VDE	114919	A-20
2IK6GN-CW	2IK6A-CW	Impedance Protection	E64199	IP20	VDE	114919	A-20
2IK6GN-CWT	2IK6A-CWT	Impedance Protection	E64199	IP54 *1	VDE	114919	A-20
2IK6GN-SW	2IK6A-SW	Impedance Protection	E64199	IP20	VDE	114919	A-20
2IK6GN-SWT	2IK6A-SWT	Impedance Protection	E64199	IP54 *1	VDE	114919	A-20
3IK15GN-AW	3IK15A-AW	Thermal Protector	E64197	IP20	VDE	6751	A-24
3IK15GN-CW	3IK15A-CW	Thermal Protector	E64197	IP20	VDE	6751	A-24
4IK25GN-AW	4IK25A-AW	Thermal Protector	E64197	IP20	VDE	6751	A-28
4IK25GN-AWT	4IK25A-AWT	Thermal Protector	E64197	IP54(IP40 *2)	VDE	6751	A-28
4IK25GN-CW	4IK25A-CW	Thermal Protector	E64197	IP20	VDE	6751	A-28
4IK25GN-CWT	4IK25A-CWT	Thermal Protector	E64197	IP54(IP40 *2)	VDE	6751	A-28
4IK25GN-SW	4IK25A-SW	Thermal Protector	E64197	IP20	VDE	6751	A-28
4IK25GN-SWT	4IK25A-SWT	Thermal Protector	E64197	IP54(IP40 *2)	VDE	6751	A-28
5IK40GN-AW	5IK40A-AW	Thermal Protector	E64197	IP20	VDE	6751	A-34
5IK40GN-AWT	5IK40A-AWT	Thermal Protector	E64197	IP54(IP40 *2)	VDE	6751	A-34
5IK40GN-CW	5IK40A-CW	Thermal Protector	E64197	IP20	VDE	6751	A-34
5IK40GN-CWT	5IK40A-CWT	Thermal Protector	E64197	IP54(IP40 *2)	VDE	6751	A-34
5IK40GN-SW	5IK40A-SW	Thermal Protector	E64197	IP20	VDE	6751	A-34
5IK40GN-SWT	5IK40A-SWT	Thermal Protector	E64197	IP54(IP40 *2)	VDE	6751	A-34
5IK60GN-AW	5IK60A-AW	Thermal Protector	E64197	IP20	VDE	6751	A-40
5IK60GN-AWT	5IK60A-AWT	Thermal Protector	E64197	IP44(IP40 *2)	VDE	6751	A-40
5IK60GN-CW	5IK60A-CW	Thermal Protector	E64197	IP20	VDE	6751	A-40
5IK60GN-CWT	5IK60A-CWT	Thermal Protector	E64197	IP44(IP40 *2)	VDE	6751	A-40
5IK60GN-SW	5IK60A-SW	Thermal Protector	E64197	IP20	VDE	6751	A-40
5IK60GN-SWT	5IK60A-SWT	Thermal Protector	E64197	IP44(IP40 *2)	VDE	6751	A-40
5IK90GN-AW	5IK90A-AW	Thermal Protector	E64197	IP20	VDE	6751	A-47
5IK90GN-AWT	5IK90A-AWT	Thermal Protector	E64197	IP44(IP40 *2)	VDE	6751	A-47
5IK90GN-CW	5IK90A-CW	Thermal Protector	E64197	IP20	VDE	6751	A-47
5IK90GN-CWT	5IK90A-CWT	Thermal Protector	E64197	IP44(IP40 *2)	VDE	6751	A-47
5IK90GN-SW	5IK90A-SW	Thermal Protector	E64197	IP20	DEMKO	138642	A-47
5IK90GN-SWT	5IK90A-SWT	Thermal Protector	E64197	IP44(IP40 *2)	DEMKO	138642	A-47

*1 When using $\phi 0.33$ in. ($\phi 8.5$ mm) cables, IP grade is 54; otherwise, IP40 is applied, except for the mounting surface of the round shaft motor. *2 Round shaft type.

World K Series Reversible Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft				Certification Body	Licence No. or Certificate No.	
2RK6GN-AW	2RK6A-AW	Impedance Protection	E64199	IP20	VDE	114919	A-74
2RK6GN-AWT	2RK6A-AWT	Impedance Protection	E64199	IP40	VDE	114919	A-74
2RK6GN-CW	2RK6A-CW	Impedance Protection	E64199	IP20	VDE	114919	A-74
2RK6GN-CWT	2RK6A-CWT	Impedance Protection	E64199	IP40	VDE	114919	A-74
3RK15GN-AW	3RK15A-AW	Thermal Protector	E64197	IP20	VDE	6751	A-78
3RK15GN-CW	3RK15A-CW	Thermal Protector	E64197	IP20	VDE	6751	A-78
4RK25GN-AW	4RK25A-AW	Thermal Protector	E64197	IP20	VDE	6751	A-82
4RK25GN-AWT	4RK25A-AWT	Thermal Protector	E64197	IP40	VDE	6751	A-82
4RK25GN-CW	4RK25A-CW	Thermal Protector	E64197	IP20	VDE	6751	A-82
4RK25GN-CWT	4RK25A-CWT	Thermal Protector	E64197	IP40	VDE	6751	A-82
5RK40GN-AW	5RK40A-AW	Thermal Protector	E64197	IP20	VDE	6751	A-87
5RK40GN-AWT	5RK40A-AWT	Thermal Protector	E64197	IP40	VDE	6751	A-87
5RK40GN-CW	5RK40A-CW	Thermal Protector	E64197	IP20	VDE	6751	A-87
5RK40GN-CWT	5RK40A-CWT	Thermal Protector	E64197	IP40	VDE	6751	A-87
5RK60GN-AW	5RK60A-AW	Thermal Protector	E64197	IP20	VDE	6751	A-92
5RK60GN-AWT	5RK60A-AWT	Thermal Protector	E64197	IP40	VDE	6751	A-92
5RK60GN-CW	5RK60A-CW	Thermal Protector	E64197	IP20	VDE	6751	A-92
5RK60GN-CWT	5RK60A-CWT	Thermal Protector	E64197	IP40	VDE	6751	A-92
5RK90GN-AW	5RK90A-AW	Thermal Protector	E64197	IP20	VDE	6751	A-97
5RK90GN-AWT	5RK90A-AWT	Thermal Protector	E64197	IP40	VDE	6751	A-97
5RK90GN-CW	5RK90A-CW	Thermal Protector	E64197	IP20	VDE	6751	A-97
5RK90GN-CWT	5RK90A-CWT	Thermal Protector	E64197	IP40	VDE	6751	A-97

■ World K Series Electromagnetic Brake Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft				Certification Body	Licence No. or Certificate No.	
2RK6GN-AWM	2RK6A-AWM	Impedance Protection	E64199	IP20	VDE	114919	A-132
2RK6GN-CWM	2RK6A-CWM	Impedance Protection	E64199	IP20	VDE	114919	A-132
2IK6GN-SWM	2IK6A-SWM	Impedance Protection	E64199	IP20	VDE	114919	A-132
3RK15GN-AWM	3RK15A-AWM	Thermal Protector	E64197	IP20	VDE	6751	A-137
3RK15GN-CWM	3RK15A-CWM	Thermal Protector	E64197	IP20	VDE	6751	A-137
4RK25GN-AWM	4RK25A-AWM	Thermal Protector	E64197	IP20	VDE	6751	A-142
4RK25GN-CWM	4RK25A-CWM	Thermal Protector	E64197	IP20	VDE	6751	A-142
4IK25GN-SWM	4IK25A-SWM	Thermal Protector	E64197	IP20	VDE	6751	A-142
5RK40GN-AWM	5RK40A-AWM	Thermal Protector	E64197	IP20	VDE	6751	A-147
5RK40GN-CWM	5RK40A-CWM	Thermal Protector	E64197	IP20	VDE	6751	A-147
5IK40GN-SWM	5IK40A-SWM	Thermal Protector	E64197	IP20	VDE	6751	A-147
5RK60GU-AWM	5RK60A-AWM	Thermal Protector	E64197	IP40	VDE	6751	A-152
5RK60GU-CWM	5RK60A-CWM	Thermal Protector	E64197	IP40	VDE	6751	A-152
5IK60GU-SWM	5IK60A-SWM	Thermal Protector	E64197	IP40	VDE	6751	A-152
5RK90GU-AWM	5RK90A-AWM	Thermal Protector	E64197	IP40	VDE	6751	A-157
5RK90GU-CWM	5RK90A-CWM	Thermal Protector	E64197	IP40	VDE	6751	A-157
5IK90GU-SWM	5IK90A-SWM	Thermal Protector	E64197	IP40	DEMKO	138642	A-157

■ V Series Induction Motors

Model	Motor Model	Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
					Certification Body	Licence No.	
VHI206A-□U	VHI206A-GV	Impedance Protection	E64199	IP20	VDE	114919	A-20
VHI206C-□E	VHI206C-GV	Impedance Protection	E64199	IP20	VDE	114919	A-20
VHI315A-□U	VHI315A-GV	Thermal Protector	E64197	IP20	VDE	6751	A-24
VHI315C-□E	VHI315C-GV	Thermal Protector	E64197	IP20	VDE	6751	A-24
VHI425A-□U	VHI425A-GV	Thermal Protector	E64197	IP20	VDE	6751	A-28
VHI425C-□E	VHI425C-GV	Thermal Protector	E64197	IP20	VDE	6751	A-28
VHI425S-□	VHI425S-GV	Thermal Protector	E64197	IP20	VDE	6751	A-28
VHI425AT-□U	VHI425AT-GV	Thermal Protector	E64197	IP54	VDE	6751	A-28
VHI425CT-□E	VHI425CT-GV	Thermal Protector	E64197	IP54	VDE	6751	A-28
VHI425ST-□	VHI425ST-GV	Thermal Protector	E64197	IP54	VDE	6751	A-28
VHI540A-□U	VHI540A-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-34
VHI540C-□E	VHI540C-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-34
VHI540S-□	VHI540S-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-34
VHI540AT-□U	VHI540AT-GVH	Thermal Protector	E64197	IP54	VDE	6751	A-34
VHI540CT-□E	VHI540CT-GVH	Thermal Protector	E64197	IP54	VDE	6751	A-34
VHI540ST-□	VHI540ST-GVH	Thermal Protector	E64197	IP54	VDE	6751	A-34
VHI560A-□U	VHI560A-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-40
VHI560C-□E	VHI560C-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-40
VHI560S-□	VHI560S-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-40
VHI560AT-□U	VHI560AT-GVH	Thermal Protector	E64197	IP44	VDE	6751	A-40
VHI560CT-□E	VHI560CT-GVH	Thermal Protector	E64197	IP44	VDE	6751	A-40
VHI560ST-□	VHI560ST-GVH	Thermal Protector	E64197	IP44	VDE	6751	A-40
VHI590A-□U	VHI590A-GVR	Thermal Protector	E64197	IP20	—	—	A-47
VHI590C-□E	VHI590C-GVR	Thermal Protector	E64197	IP20	—	—	A-47
VHI590S-□	VHI590S-GVR	Thermal Protector	E64197	IP20	—	—	A-47
VHI590AT-□U	VHI590AT-GVR	Thermal Protector	E64197	IP44	—	—	A-47
VHI590CT-□E	VHI590CT-GVR	Thermal Protector	E64197	IP44	—	—	A-47
VHI590ST-□	VHI590ST-GVR	Thermal Protector	E64197	IP44	—	—	A-47

● Enter the gear ratio in the box (□) within the model name.

● **VHI590** type conforms to EN Standards.

■ V Series Reversible Motors

Model	Motor Model	Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
					Certification Body	Licence No.	
VHR206A-□U	VHR206A-GV	Impedance Protection	E64199	IP20	VDE	114919	A-74
VHR206C-□E	VHR206C-GV	Impedance Protection	E64199	IP20	VDE	114919	A-74
VHR315A-□U	VHR315A-GV	Thermal Protector	E64197	IP20	VDE	6751	A-78
VHR315C-□E	VHR315C-GV	Thermal Protector	E64197	IP20	VDE	6751	A-78
VHR425A-□U	VHR425A-GV	Thermal Protector	E64197	IP20	VDE	6751	A-82
VHR425C-□E	VHR425C-GV	Thermal Protector	E64197	IP20	VDE	6751	A-82
VHR425AT-□U	VHR425AT-GV	Thermal Protector	E64197	IP40	VDE	6751	A-82
VHR425CT-□E	VHR425CT-GV	Thermal Protector	E64197	IP40	VDE	6751	A-82
VHR540A-□U	VHR540A-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-87
VHR540C-□E	VHR540C-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-87
VHR540AT-□U	VHR540AT-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-87
VHR540CT-□E	VHR540CT-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-87
VHR560A-□U	VHR560A-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-92
VHR560C-□E	VHR560C-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-92
VHR560AT-□U	VHR560AT-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-92
VHR560CT-□E	VHR560CT-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-92
VHR590A-□U	VHR590A-GVR	Thermal Protector	E64197	IP20	—	—	A-97
VHR590C-□E	VHR590C-GVR	Thermal Protector	E64197	IP20	—	—	A-97
VHR590AT-□U	VHR590AT-GVR	Thermal Protector	E64197	IP40	—	—	A-97
VHR590CT-□E	VHR590CT-GVR	Thermal Protector	E64197	IP40	—	—	A-97

- Enter the gear ratio in the box (□) within the model name.
- VHR590 type conforms to EN Standards.

■ V Series Electromagnetic Brake Motors

Model	Motor Model	Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
					Certification Body	Licence No.	
VHR206AM-□U	VHR206AM-GV	Impedance Protection	E64199	IP20	VDE	114919	A-132
VHR206CM-□E	VHR206CM-GV	Impedance Protection	E64199	IP20	VDE	114919	A-132
VHR315AM-□U	VHR315AM-GV	Thermal Protector	E64197	IP20	VDE	6751	A-137
VHR315CM-□E	VHR315CM-GV	Thermal Protector	E64197	IP20	VDE	6751	A-137
VHR425AM-□U	VHR425AM-GV	Thermal Protector	E64197	IP20	VDE	6751	A-142
VHR425CM-□E	VHR425CM-GV	Thermal Protector	E64197	IP20	VDE	6751	A-142
VHI425SM-□	VHI425SM-GV	Thermal Protector	E64197	IP20	VDE	6751	A-142
VHR540AM-□U	VHR540AM-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-147
VHR540CM-□E	VHR540CM-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-147
VHI540SM-□	VHI540SM-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-147
VHR560AM-□U	VHR560AM-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-152
VHR560CM-□E	VHR560CM-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-152
VHI560SM-□	VHI560SM-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-152
VHR590AM-□U	VHR590AM-GVR	Thermal Protector	E64197	IP40	—	—	A-157
VHR590CM-□E	VHR590CM-GVR	Thermal Protector	E64197	IP40	—	—	A-157
VHI590SM-□	VHI590SM-GVR	Thermal Protector	E64197	IP40	—	—	A-157

- Enter the gear ratio in the box (□) within the model name.
- VHR590 type conforms to EN Standards.

■ BH Series Induction Motors

Model		UL File No. Motor	Degree of Protection	Page
Model	Motor Model			
BHI62F-□■	BHI62F-G2	E64197	IP40	A-54
BHI62FT-□■	BHI62FT-G2	E64197	IP54	A-54
BHI62FT-A	—	E64197	IP54 *	A-54
BHI62F-A	—	E64197	IP40	A-54
BHI62E-□■	BHI62E-G2	E64197	IP40	A-54
BHI62ET-□■	BHI62ET-G2	E64197	IP54	A-54
BHI62ET-A	—	E64197	IP54 *	A-54
BHI62E-A	—	E64197	IP40	A-54
BHI62ST-□■	BHI62ST-G2	E64197	IP54	A-54
BHI62ST-A	—	E64197	IP54 *	A-54

* Except for the mounting surface.

- Enter the gear ratio in the box (□) within the model name.
- Enter the shaft type "RH" or "RA" in the box (■) within the model name. (Right-Angle Shaft Type Only)

BH Series Electromagnetic Brake Motors

Model		UL File No. Motor	Degree of Protection	Page
Model	Motor Model			
BHI62FMT-□■	BHI62FMT-G2	E64197	IP54	A-163
BHI62FMT-A	—	E64197	IP54 *	A-163
BHI62EMT-□■	BHI62EMT-G2	E64197	IP54	A-163
BHI62EMT-A	—	E64197	IP54 *	A-163
BHI62SMT-□■	BHI62SMT-G2	E64197	IP54	A-163
BHI62SMT-A	—	E64197	IP54 *	A-163

* Except for the mounting surface.

● Enter the gear ratio in the box (□) within the model name.

● Enter the shaft type "RH" or "RA" in the box (■) within the model name. (Right-Angle Shaft Type Only)

Clutch and Brake Motors

Model	Motor Model	Overheating Protection Device	UL File No. Motor	Degree of Protection	Page
CB1540-701WU	5IK40GN-AW-CB1	Thermal Protector	E64197	IP20	A-171
CB1560-801WU	5IK60GU-AW-CB1	Thermal Protector	E64197	IP20	A-171
CB1590-801WU	5IK90GU-AW-CB1	Thermal Protector	E64197	IP20	A-171

● The clutch and brake unit is not UL recognized.

K Series Conduit Box Type

Model		Overheating Protection Device	UL File No.	Degree of * Protection	Page
Pinion Shaft	Round Shaft				
4IK25GN-FCH	4IK25AA-FCH	Thermal Protector	E64197	IP54	A-28
4IK25GN-ECH	4IK25AA-ECH	Thermal Protector	E64197	IP54	A-28
4IK25GN-SH	4IK25AA-SH	Thermal Protector	E64197	IP54	A-28
5IK40GN-FCH	5IK40AA-FCH	Thermal Protector	E64197	IP54	A-34
5IK40GN-ECH	5IK40AA-ECH	Thermal Protector	E64197	IP54	A-34
5IK40GN-SH	5IK40AA-SH	Thermal Protector	E64197	IP54	A-34
5IK60GU-FCH	5IK60AA-FCH	Thermal Protector	E64197	IP54	A-40
5IK60GU-ECH	5IK60AA-ECH	Thermal Protector	E64197	IP54	A-40
5IK60GU-SH	5IK60AA-SH	Thermal Protector	E64197	IP54	A-40
5IK90GU-FCH	5IK90AA-FCH	Thermal Protector	E64197	IP54	A-47
5IK90GU-ECH	5IK90AA-ECH	Thermal Protector	E64197	IP54	A-47
5IK90GU-SH	5IK90AA-SH	Thermal Protector	E64197	IP54	A-47

* Except for the mounting surface of the round shaft motor and conduit opening.

K Series Induction Motors

Model		Overheating Protection Device	UL File No.	CSA Certificate No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft					Certification Body	Licence No.	
0IK1GN-AUL	0IK1A-AUL	Impedance Protection	E64199	LR47296	IP20	VDE	5876ÜG	A-18
—	4IK40A-BA	Thermal Protector	E64197	—	IP20	—	—	A-65
—	5IK60A-BA	Thermal Protector	E64197	—	IP20	—	—	A-65
—	5IK90A-BFUL	Thermal Protector	E64197	—	IP20	VDE	5877ÜG	A-65

K Series Reversible Motors

Model		Overheating Protection Device	UL File No.	CSA Certificate No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft					Certification Body	Licence No.	
ORK1GN-AUL	ORK1A-AUL	Impedance Protection	E64199	LR47296	IP20	VDE	5876ÜG	A-72

Synchronous Motors

Model		Overheating Protection Device	UL File No.	CSA Certificate No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft					Certification Body	Licence No.	
2SK4GN-AUL	2SK4A-AULA	Impedance Protection	E64199	LR47296	IP20	VDE	5876ÜG	A-103
3SK10GN-AUL	3SK10A-AULA	Thermal Protector	E64197	LR47296	IP20	VDE	5877ÜG	A-103
4SK15GN-AUL	4SK15A-AULA	Thermal Protector	E64197	LR47296	IP20	VDE	5877ÜG	A-103
5SK25GN-AUL	5SK25A-AULA	Thermal Protector	E64197	LR47296	IP20	VDE	5877ÜG	A-103

Torque Motors

Model		Overheating Protection Device	UL File No.	CSA Certificate No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft					Certification Body	Licence No.	
3TK6GN-AUL	3TK6A-AULA	Thermal Protector	E64197	LR47296	IP20	VDE	5877ÜG	A-111
4TK10GN-AUL	4TK10A-AULA	Thermal Protector	E64197	LR47296	IP20	VDE	5877ÜG	A-111
5TK20GN-AUL	5TK20A-AULA	Thermal Protector	E64197	LR47296	IP20	VDE	5877ÜG	A-111

Brake Pack

Model	UL File No.	Degree of Protection	Page
SB50	E91291	IP10 *	A-179

* When attached to a flush mounting socket.

Watertight Motors FPW Series

Model	Overheating Protection Device	UL File No.	Degree of Protection	Page
FPW425A-□	Thermal Protector	E64197	IP67	A-119
FPW425C-□	Thermal Protector	E64197	IP67	A-119
FPW425S-□	Thermal Protector	E64197	IP67	A-119
FPW540A-□	Thermal Protector	E64197	IP67	A-119
FPW540C-□	Thermal Protector	E64197	IP67	A-119
FPW540S-□	Thermal Protector	E64197	IP67	A-119
FPW560A-□	Thermal Protector	E64197	IP67	A-119
FPW560C-□	Thermal Protector	E64197	IP67	A-119
FPW560S-□	Thermal Protector	E64197	IP67	A-119
FPW690A-□	Thermal Protector	E64197	IP67	A-119
FPW690C-□	Thermal Protector	E64197	IP67	A-119
FPW690S-□	Thermal Protector	E64197	IP67	A-119

• Enter the gear ratio in the box (□) within the model name.

Brushless DC Motor Systems BX Series

Model	Motor Model	Driver Model	UL File No.		Page
			Motor	Driver	
BX230A-A	BXM230-A2	BXD30A-A	E208200	E171462	B-10
BX230A-□	BXM230-GFH2	BXD30A-A	E208200	E171462	B-10
BX230C-A	BXM230-A2	BXD30A-C	E208200	E171462	B-10
BX230C-□	BXM230-GFH2	BXD30A-C	E208200	E171462	B-10
BX460A-A	BXM460-A2	BXD60A-A	E208200	E171462	B-10
BX460A-□	BXM460-GFH2	BXD60A-A	E208200	E171462	B-10
BX460C-A	BXM460-A2	BXD60A-C	E208200	E171462	B-10
BX460C-□	BXM460-GFH2	BXD60A-C	E208200	E171462	B-10
BX5120A-A	BXM5120-A2	BXD120A-A	E208200	E171462	B-10
BX5120A-□	BXM5120-GFH2	BXD120A-A	E208200	E171462	B-10
BX5120C-A	BXM5120-A2	BXD120A-C	E208200	E171462	B-10
BX5120C-□	BXM5120-GFH2	BXD120A-C	E208200	E171462	B-10
BX6200A-A	BXM6200-A	BXD200A-A	E62327	E171462	B-10
BX6200A-□	BXM6200-GH	BXD200A-A	E62327	E171462	B-10
BX6200C-A	BXM6200-A	BXD200A-C	E62327	E171462	B-10
BX6200C-□	BXM6200-GH	BXD200A-C	E62327	E171462	B-10
BX6400S-A	BXM6400-A	BXD400A-S	E62327	E171462	B-10
BX6400S-□	BXM6400-GH	BXD400B-S	E62327	E171462	B-10

• Enter the gear ratio in the box (□) within the model name.

■ Brushless DC Motor Systems BX Series with Electromagnetic Brake

Model	Motor Model	Driver Model	UL File No.		Page
			Motor	Driver	
BX230AM-A	BXM230M-A2	BXD30A-A	E208200	E171462	B-10
BX230AM-□	BXM230M-GFH2	BXD30A-A	E208200	E171462	B-10
BX230CM-A	BXM230M-A2	BXD30A-C	E208200	E171462	B-10
BX230CM-□	BXM230M-GFH2	BXD30A-C	E208200	E171462	B-10
BX460AM-A	BXM460M-A2	BXD60A-A	E208200	E171462	B-10
BX460AM-□	BXM460M-GFH2	BXD60A-A	E208200	E171462	B-10
BX460CM-A	BXM460M-A2	BXD60A-C	E208200	E171462	B-10
BX460CM-□	BXM460M-GFH2	BXD60A-C	E208200	E171462	B-10
BX5120AM-A	BXM5120M-A2	BXD120A-A	E208200	E171462	B-10
BX5120AM-□	BXM5120M-GFH2	BXD120A-A	E208200	E171462	B-10
BX5120CM-A	BXM5120M-A2	BXD120A-C	E208200	E171462	B-10
BX5120CM-□	BXM5120M-GFH2	BXD120A-C	E208200	E171462	B-10
BX6200AM-A	BXM6200M-A	BXD200A-A	E62327	E171462	B-10
BX6200AM-□	BXM6200M-GH	BXD200A-A	E62327	E171462	B-10
BX6200CM-A	BXM6200M-A	BXD200A-C	E62327	E171462	B-10
BX6200CM-□	BXM6200M-GH	BXD200A-C	E62327	E171462	B-10
BX6400SM-A	BXM6400M-A	BXD400A-S	E62327	E171462	B-10
BX6400SM-□	BXM6400M-GH	BXD400B-S	E62327	E171462	B-10

● Enter the gear ratio in the box (□) within the model name.

■ Brushless DC Motor Systems FBL II Series

Model	Motor Model	Driver Model	UL File No.		DEMKO Certificate No.		Degree of Protection		Page
			Motor	Driver	Motor	Driver	Motor	Driver	
FBL575AW-□	FBLM575W-GFB	FBLD75AW	E62327	E171462	124888	131974	IP40	IP10	B-34
FBL575AW-A	FBLM575W-A	FBLD75AW	E62327	E171462	124888	131974	IP40	IP10	B-34
FBL575CW-□	FBLM575W-GFB	FBLD75CW	E62327	E171462	124888	131974	IP40	IP10	B-34
FBL575CW-A	FBLM575W-A	FBLD75CW	E62327	E171462	124888	131974	IP40	IP10	B-34
FBL575SW-□	FBLM575W-GFB	FBLD75SW	E62327	E171462	124888	—	IP40	IP10	B-34
FBL575SW-A	FBLM575W-A	FBLD75SW	E62327	E171462	124888	—	IP40	IP10	B-34
FBL5120AW-□	FBLM5120W-GFB	FBLD120AW	E62327	E171462	124888	131974	IP40	IP10	B-34
FBL5120AW-A	FBLM5120W-A	FBLD120AW	E62327	E171462	124888	131974	IP40	IP10	B-34
FBL5120CW-□	FBLM5120W-GFB	FBLD120CW	E62327	E171462	124888	131974	IP40	IP10	B-34
FBL5120CW-A	FBLM5120W-A	FBLD120CW	E62327	E171462	124888	131974	IP40	IP10	B-34
FBL5120SW-□	FBLM5120W-GFB	FBLD120SW	E62327	E171462	124888	—	IP40	IP10	B-34
FBL5120SW-A	FBLM5120W-A	FBLD120SW	E62327	E171462	124888	—	IP40	IP10	B-34

● Enter the gear ratio in the box (□) within the model name.

● **FBL575SW**, **FBL5120SW** types conform to EN Standards.

■ Brushless DC Motor Systems AXU Series

Model	Motor Model	Control Unit Model	UL File No.		Degree of Protection		Page
			Motor	Control Unit	Motor	Control Unit	
AXU210A-GN	AXUM210-GN	AXUD10A	E208200	E171462	IP65	IP10	B-46
AXU210A-A	AXUM210-A	AXUD10A	E208200	E171462	IP65 *	IP10	B-46
AXU210C-GN	AXUM210-GN	AXUD10C	E208200	E171462	IP65	IP10	B-46
AXU210C-A	AXUM210-A	AXUD10C	E208200	E171462	IP65 *	IP10	B-46
AXU210S-GN	AXUM210-GN	AXUD10S	E208200	E171462	IP65	IP10	B-46
AXU210S-A	AXUM210-A	AXUD10S	E208200	E171462	IP65 *	IP10	B-46
AXU425A-GN	AXUM425-GN	AXUD25A	E208200	E171462	IP65	IP10	B-46
AXU425A-A	AXUM425-A	AXUD25A	E208200	E171462	IP65 *	IP10	B-46
AXU425C-GN	AXUM425-GN	AXUD25C	E208200	E171462	IP65	IP10	B-46
AXU425C-A	AXUM425-A	AXUD25C	E208200	E171462	IP65 *	IP10	B-46
AXU425S-GN	AXUM425-GN	AXUD25S	E208200	E171462	IP65	IP10	B-46
AXU425S-A	AXUM425-A	AXUD25S	E208200	E171462	IP65 *	IP10	B-46
AXU540A-GN	AXUM540-GN	AXUD40A	E208200	E171462	IP65	IP10	B-46
AXU540A-A	AXUM540-A	AXUD40A	E208200	E171462	IP65 *	IP10	B-46
AXU540C-GN	AXUM540-GN	AXUD40C	E208200	E171462	IP65	IP10	B-46
AXU540C-A	AXUM540-A	AXUD40C	E208200	E171462	IP65 *	IP10	B-46
AXU540S-GN	AXUM540-GN	AXUD40S	E208200	E171462	IP65	IP10	B-46
AXU540S-A	AXUM540-A	AXUD40S	E208200	E171462	IP65 *	IP10	B-46
AXU590A-GU	AXUM590-GU	AXUD90A	E208200	E171462	IP65	IP10	B-46
AXU590A-A	AXUM590-A	AXUD90A	E208200	E171462	IP65 *	IP10	B-46
AXU590C-GU	AXUM590-GU	AXUD90C	E208200	E171462	IP65	IP10	B-46
AXU590C-A	AXUM590-A	AXUD90C	E208200	E171462	IP65 *	IP10	B-46
AXU590S-GU	AXUM590-GU	AXUD90S	E208200	E171462	IP65	IP10	B-46
AXU590S-A	AXUM590-A	AXUD90S	E208200	E171462	IP65 *	IP10	B-46

* Except for the mounting surface.

■ Brushless DC Motor Systems AXH Series

Model	Motor Model	Driver Model	UL File No.		Degree of Protection		Page
			Motor	Driver	Motor	Driver	
AXH015K-□	AXHM015K-□	AXHD15K	E208200	E208200	IP40	IP00	B-58
AXH015K-A	AXHM015K-A	AXHD15K	E208200	E208200	IP40	IP00	B-58
AXH230KC-□	AXHM230KC-GFH	AXHD30K	E208200	E208200	IP65	IP00	B-58
AXH230KC-A	AXHM230KC-A	AXHD30K	E208200	E208200	IP65 *	IP00	B-58
AXH450KC-□	AXHM450KC-GFH	AXHD50K	E208200	E208200	IP65	IP00	B-58
AXH450KC-A	AXHM450KC-A	AXHD50K	E208200	E208200	IP65 *	IP00	B-58
AXH5100KC-□	AXHM5100KC-GFH	AXHD100K	E208200	E208200	IP65	IP00	B-58
AXH5100KC-A	AXHM5100KC-A	AXHD100K	E208200	E208200	IP65 *	IP00	B-58

* Except for the mounting surface.

● Enter the gear ratio in the box (□) within the model name.

■ AC Motor Systems BHF Series Speed Control Motor Unit

Model	Motor Model	Speed Control Pack Model	UL File No.		Degree of Protection		Page
			Motor	Speed Control Pack	Motor	Speed Control Pack	
BHF62AT-□■	BHM62T-G2	FSP200-1	E64197	E171462	IP54	IP10	B-70
BHF62AT-A	BHM62T-A	FSP200-1	E64197	E171462	IP54 *	IP10	B-70
BHF62CT-□■	BHM62T-G2	FSP200-2	E64197	E171462	IP54	IP10	B-70
BHF62CT-A	BHM62T-A	FSP200-2	E64197	E171462	IP54 *	IP10	B-70
BHF62ST-□■	BHM62T-G2	FSP200-3	E64197	E171462	IP54	IP10	B-70
BHF62ST-A	BHM62T-A	FSP200-3	E64197	E171462	IP54 *	IP10	B-70

* Except for the mounting surface.

● Enter the gear ratio in the box (□) within the model name.

● Enter the shaft type "RH" or "RA" in the box(■) within the model name. (Right-Angle Shaft Type Only)

■ AC Motor Systems BHF Series Speed Control Motor Unit with Electromagnetic Brake

Model	Motor Model	Speed Control Pack Model	UL File No.		Degree of Protection		Page
			Motor	Speed Control Pack	Motor	Speed Control Pack	
BHF62AMT-□■	BHM62MT-G2	FSP200-1	E64197	E171462	IP54	IP10	B-70
BHF62AMT-A	BHM62MT-A	FSP200-1	E64197	E171462	IP54 *	IP10	B-70
BHF62CMT-□■	BHM62MT-G2	FSP200-2	E64197	E171462	IP54	IP10	B-70
BHF62CMT-A	BHM62MT-A	FSP200-2	E64197	E171462	IP54 *	IP10	B-70
BHF62SMT-□■	BHM62MT-G2	FSP200-3	E64197	E171462	IP54	IP10	B-70
BHF62SMT-A	BHM62MT-A	FSP200-3	E64197	E171462	IP54 *	IP10	B-70

* Except for the mounting surface.

● Enter the gear ratio in the box (□) within the model name.

● Enter the shaft type "RH" or "RA" in the box (■) within the model name. (Right-Angle Shaft Type Only)

■ AC Motor Systems Speed Controllers

Model	UL File No.	Degree of Protection	Page
ES01	E91291	IP20	B-86
ES02	E91291	IP20	B-86

■ World K Series Speed Control Motors Induction Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	Page
Pinion Shaft	Round Shaft				
2IK6RGN-AW	2IK6RA-AW	Impedance Protection	E64199	IP20	B-86
2IK6RGN-CW	2IK6RA-CW	Impedance Protection	E64199	IP20	B-86
3IK15RGN-AW	3IK15RA-AW	Thermal Protector	E64197	IP20	B-86
3IK15RGN-CW	3IK15RA-CW	Thermal Protector	E64197	IP20	B-86
4IK25RGN-AW	4IK25RA-AW	Thermal Protector	E64197	IP20	B-86
4IK25RGN-CW	4IK25RA-CW	Thermal Protector	E64197	IP20	B-86
5IK40RGN-AW	5IK40RA-AW	Thermal Protector	E64197	IP20	B-86
5IK40RGN-CW	5IK40RA-CW	Thermal Protector	E64197	IP20	B-86
5IK60RGU-AW	5IK60RA-AW	Thermal Protector	E64197	IP40	B-86
5IK60RGU-CW	5IK60RA-CW	Thermal Protector	E64197	IP40	B-86

■ World K Series Speed Control Motors Reversible Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	Page
Pinion Shaft	Round Shaft				
2RK6RGN-AW	2RK6RA-AW	Impedance Protection	E64199	IP20	B-86
2RK6RGN-CW	2RK6RA-CW	Impedance Protection	E64199	IP20	B-86
3RK15RGN-AW	3RK15RA-AW	Thermal Protector	E64197	IP20	B-86
3RK15RGN-CW	3RK15RA-CW	Thermal Protector	E64197	IP20	B-86
4RK25RGN-AW	4RK25RA-AW	Thermal Protector	E64197	IP20	B-86
4RK25RGN-CW	4RK25RA-CW	Thermal Protector	E64197	IP20	B-86
5RK40RGN-AW	5RK40RA-AW	Thermal Protector	E64197	IP20	B-86
5RK40RGN-CW	5RK40RA-CW	Thermal Protector	E64197	IP20	B-86
5RK60RGU-AW	5RK60RA-AW	Thermal Protector	E64197	IP40	B-86
5RK60RGU-CW	5RK60RA-CW	Thermal Protector	E64197	IP40	B-86

■ V Series Speed Control Motors Induction Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	Page
Model	Motor Model				
VSI206A-□U	VSI206A-GV	Impedance Protection	E64199	IP20	B-86
VSI206C-□E	VSI206C-GV	Impedance Protection	E64199	IP20	B-86
VSI315A-□U	VSI315A-GV	Thermal Protector	E64197	IP20	B-86
VSI315C-□E	VSI315C-GV	Thermal Protector	E64197	IP20	B-86
VSI425A-□U	VSI425A-GV	Thermal Protector	E64197	IP20	B-86
VSI425C-□E	VSI425C-GV	Thermal Protector	E64197	IP20	B-86
VSI540A-□U	VSI540A-GVH	Thermal Protector	E64197	IP20	B-86
VSI540C-□E	VSI540C-GVH	Thermal Protector	E64197	IP20	B-86
VSI560A-□U	VSI560A-GVH	Thermal Protector	E64197	IP20	B-86
VSI560C-□E	VSI560C-GVH	Thermal Protector	E64197	IP20	B-86
VSI590A-□U	VSI590A-GVR	Thermal Protector	E64197	IP20	B-86
VSI590C-□E	VSI590C-GVR	Thermal Protector	E64197	IP20	B-86

• Enter the gear ratio in the box (□) within the model name.

■ V Series Speed Control Motors Reversible Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	Page
Model	Motor Model				
VSR206A-□U	VSR206A-GV	Impedance Protection	E64199	IP20	B-86
VSR206C-□E	VSR206C-GV	Impedance Protection	E64199	IP20	B-86
VSR315A-□U	VSR315A-GV	Thermal Protector	E64197	IP20	B-86
VSR315C-□E	VSR315C-GV	Thermal Protector	E64197	IP20	B-86
VSR425A-□U	VSR425A-GV	Thermal Protector	E64197	IP20	B-86
VSR425C-□E	VSR425C-GV	Thermal Protector	E64197	IP20	B-86
VSR540A-□U	VSR540A-GVH	Thermal Protector	E64197	IP20	B-86
VSR540C-□E	VSR540C-GVH	Thermal Protector	E64197	IP20	B-86
VSR560A-□U	VSR560A-GVH	Thermal Protector	E64197	IP20	B-86
VSR560C-□E	VSR560C-GVH	Thermal Protector	E64197	IP20	B-86
VSR590A-□U	VSR590A-GVR	Thermal Protector	E64197	IP20	B-86
VSR590C-□E	VSR590C-GVR	Thermal Protector	E64197	IP20	B-86

• Enter the gear ratio in the box (□) within the model name.

■ AC Motor Systems US Series

Model	Motor	Control Unit	Overheating Protection Device	UL File No.		Degree of Protection		Page
				Motor	Control Unit	Motor	Control Unit	
US206-401U	USM206-401W	USP206-1U	Impedance Protection	E64199	E91291	IP20	IP10	B-116
US206-001U	USM206-001W	USP206-1U	Impedance Protection	E64199	E91291	IP20	IP10	B-116
US315-401U	USM315-401W	USP315-1U	Thermal Protector	E64197	E91291	IP20	IP10	B-116
US315-001U	USM315-001W	USP315-1U	Thermal Protector	E64197	E91291	IP20	IP10	B-116
US425-401U	USM425-401W	USP425-1U	Thermal Protector	E64197	E91291	IP20	IP10	B-116
US425-001U	USM425-001W	USP425-1U	Thermal Protector	E64197	E91291	IP20	IP10	B-116
US540-401U	USM540-401W	USP540-1U	Thermal Protector	E64197	E91291	IP20	IP10	B-116
US540-001U	USM540-001W	USP540-1U	Thermal Protector	E64197	E91291	IP20	IP10	B-116
US560-501U	USM560-501W	USP560-1U	Thermal Protector	E64197	E91291	IP40	IP10	B-116
US560-001U	USM560-001W	USP560-1U	Thermal Protector	E64197	E91291	IP40	IP10	B-116
US590-501U	USM590-501W	USP590-1U	Thermal Protector	E64197	E91291	IP40	IP10	B-116
US590-001U	USM590-001W	USP590-1U	Thermal Protector	E64197	E91291	IP40	IP10	B-116
US206-402E	USM206-402W	USP206-2E	Impedance Protection	E64199	E91291	IP20	IP10	B-116
US206-002E	USM206-002W	USP206-2E	Impedance Protection	E64199	E91291	IP20	IP10	B-116
US315-402E	USM315-402W	USP315-2E	Thermal Protector	E64197	E91291	IP20	IP10	B-116
US315-002E	USM315-002W	USP315-2E	Thermal Protector	E64197	E91291	IP20	IP10	B-116
US425-402E	USM425-402W	USP425-2E	Thermal Protector	E64197	E91291	IP20	IP10	B-116
US425-002E	USM425-002W	USP425-2E	Thermal Protector	E64197	E91291	IP20	IP10	B-116
US540-402E	USM540-402W	USP540-2E	Thermal Protector	E64197	E91291	IP20	IP10	B-116
US540-002E	USM540-002W	USP540-2E	Thermal Protector	E64197	E91291	IP20	IP10	B-116
US560-502E	USM560-502W	USP560-2E	Thermal Protector	E64197	E91291	IP40	IP10	B-116
US560-002E	USM560-002W	USP560-2E	Thermal Protector	E64197	E91291	IP40	IP10	B-116
US590-502E	USM590-502W	USP590-2E	Thermal Protector	E64197	E91291	IP40	IP10	B-116
US590-002E	USM590-002W	USP590-2E	Thermal Protector	E64197	E91291	IP40	IP10	B-116

■ *α*STEP AS Series/AS PLUS Series

Type	AS			AS PLUS			UL File No.	Page
	Model	Motor Model	Driver Model	Model	Motor Model	Driver Model		
Standard Single-Phase 100-115 VAC	AS66 <input type="checkbox"/> A	ASM66 <input type="checkbox"/> A	ASD24A-A	AS66 <input type="checkbox"/> AP	ASM66 <input type="checkbox"/> A	ASD24A-AP	Motor E64199 Driver E171462	C-21
	AS69 <input type="checkbox"/> A	ASM69 <input type="checkbox"/> A	ASD30D-A	AS69 <input type="checkbox"/> AP	ASM69 <input type="checkbox"/> A	ASD30D-AP		
	AS98 <input type="checkbox"/> A	ASM98 <input type="checkbox"/> A	ASD30A-A	AS98 <input type="checkbox"/> AP	ASM98 <input type="checkbox"/> A	ASD30A-AP		
	AS911AA	ASM911AA	ASD30E-A	AS911AAP	ASM911AA	ASD30E-AP		
Standard Single-Phase 200-230 VAC	AS66 <input type="checkbox"/> C	ASM66 <input type="checkbox"/> C	ASD12A-C	AS66 <input type="checkbox"/> CP	ASM66 <input type="checkbox"/> C	ASD12A-CP		
	AS69 <input type="checkbox"/> C	ASM69 <input type="checkbox"/> C	ASD16D-C	AS69 <input type="checkbox"/> CP	ASM69 <input type="checkbox"/> C	ASD16D-CP		
	AS98 <input type="checkbox"/> C	ASM98 <input type="checkbox"/> C	ASD16A-C	AS98 <input type="checkbox"/> CP	ASM98 <input type="checkbox"/> C	ASD16A-CP		
	AS911AC	ASM911AC	ASD20A-C	AS911ACP	ASM911AC	ASD20A-CP		
Standard Three-Phase 200-230 VAC	AS66 <input type="checkbox"/> S	ASM66 <input type="checkbox"/> C	ASD12A-S	AS66 <input type="checkbox"/> SP	ASM66 <input type="checkbox"/> C	ASD12A-SP		
	AS69 <input type="checkbox"/> S	ASM69 <input type="checkbox"/> C	ASD16D-S	AS69 <input type="checkbox"/> SP	ASM69 <input type="checkbox"/> C	ASD16D-SP		
	AS98 <input type="checkbox"/> S	ASM98 <input type="checkbox"/> C	ASD16A-S	AS98 <input type="checkbox"/> SP	ASM98 <input type="checkbox"/> C	ASD16A-SP		
	AS911AS	ASM911AC	ASD20A-S	AS911ASP	ASM911AC	ASD20A-SP		
TH Geared Single-Phase 100-115 VAC	AS66 <input type="checkbox"/> A-T3.6	ASM66 <input type="checkbox"/> A-T3.6	ASD24B-A	AS66 <input type="checkbox"/> AP-T3.6	ASM66 <input type="checkbox"/> A-T3.6	ASD24B-AP		C-23
	AS66 <input type="checkbox"/> A-T7.2	ASM66 <input type="checkbox"/> A-T7.2		AS66 <input type="checkbox"/> AP-T7.2	ASM66 <input type="checkbox"/> A-T7.2			
	AS66 <input type="checkbox"/> A-T10	ASM66 <input type="checkbox"/> A-T10	ASD24C-A	AS66 <input type="checkbox"/> AP-T10	ASM66 <input type="checkbox"/> A-T10	ASD24C-AP		
	AS66 <input type="checkbox"/> A-T20	ASM66 <input type="checkbox"/> A-T20		AS66 <input type="checkbox"/> AP-T20	ASM66 <input type="checkbox"/> A-T20			
	AS66 <input type="checkbox"/> A-T30	ASM66 <input type="checkbox"/> A-T30	ASD30A-A	AS66 <input type="checkbox"/> AP-T30	ASM66 <input type="checkbox"/> A-T30	ASD30A-AP		
	AS98 <input type="checkbox"/> A-T3.6	ASM98 <input type="checkbox"/> A-T3.6		AS98 <input type="checkbox"/> AP-T3.6	ASM98 <input type="checkbox"/> A-T3.6			
	AS98 <input type="checkbox"/> A-T7.2	ASM98 <input type="checkbox"/> A-T7.2		AS98 <input type="checkbox"/> AP-T7.2	ASM98 <input type="checkbox"/> A-T7.2			
	AS98 <input type="checkbox"/> A-T10	ASM98 <input type="checkbox"/> A-T10		AS98 <input type="checkbox"/> AP-T10	ASM98 <input type="checkbox"/> A-T10			
	AS98 <input type="checkbox"/> A-T20	ASM98 <input type="checkbox"/> A-T20	ASD30C-A	AS98 <input type="checkbox"/> AP-T20	ASM98 <input type="checkbox"/> A-T20	ASD30C-AP		
	AS98 <input type="checkbox"/> A-T30	ASM98 <input type="checkbox"/> A-T30		AS98 <input type="checkbox"/> AP-T30	ASM98 <input type="checkbox"/> A-T30			
TH Geared Single-Phase 200-230 VAC	AS66 <input type="checkbox"/> C-T3.6	ASM66 <input type="checkbox"/> C-T3.6	ASD12B-C	AS66 <input type="checkbox"/> CP-T3.6	ASM66 <input type="checkbox"/> C-T3.6	ASD12B-CP	C-23	
	AS66 <input type="checkbox"/> C-T7.2	ASM66 <input type="checkbox"/> C-T7.2		AS66 <input type="checkbox"/> CP-T7.2	ASM66 <input type="checkbox"/> C-T7.2			
	AS66 <input type="checkbox"/> C-T10	ASM66 <input type="checkbox"/> C-T10	ASD12C-C	AS66 <input type="checkbox"/> CP-T10	ASM66 <input type="checkbox"/> C-T10	ASD12C-CP		
	AS66 <input type="checkbox"/> C-T20	ASM66 <input type="checkbox"/> C-T20		AS66 <input type="checkbox"/> CP-T20	ASM66 <input type="checkbox"/> C-T20			
	AS66 <input type="checkbox"/> C-T30	ASM66 <input type="checkbox"/> C-T30	ASD16A-C	AS66 <input type="checkbox"/> CP-T30	ASM66 <input type="checkbox"/> C-T30	ASD16A-CP		
	AS98 <input type="checkbox"/> C-T3.6	ASM98 <input type="checkbox"/> C-T3.6		AS98 <input type="checkbox"/> CP-T3.6	ASM98 <input type="checkbox"/> C-T3.6			
	AS98 <input type="checkbox"/> C-T7.2	ASM98 <input type="checkbox"/> C-T7.2		AS98 <input type="checkbox"/> CP-T7.2	ASM98 <input type="checkbox"/> C-T7.2			
	AS98 <input type="checkbox"/> C-T10	ASM98 <input type="checkbox"/> C-T10		AS98 <input type="checkbox"/> CP-T10	ASM98 <input type="checkbox"/> C-T10			
	AS98 <input type="checkbox"/> C-T20	ASM98 <input type="checkbox"/> C-T20	ASD16C-C	AS98 <input type="checkbox"/> CP-T20	ASM98 <input type="checkbox"/> C-T20	ASD16C-CP		
	AS98 <input type="checkbox"/> C-T30	ASM98 <input type="checkbox"/> C-T30		AS98 <input type="checkbox"/> CP-T30	ASM98 <input type="checkbox"/> C-T30			
TH Geared Three-Phase 200-230 VAC	AS66 <input type="checkbox"/> S-T3.6	ASM66 <input type="checkbox"/> C-T3.6	ASD12B-S	AS66 <input type="checkbox"/> SP-T3.6	ASM66 <input type="checkbox"/> C-T3.6	ASD12B-SP	C-23	
	AS66 <input type="checkbox"/> S-T7.2	ASM66 <input type="checkbox"/> C-T7.2		AS66 <input type="checkbox"/> SP-T7.2	ASM66 <input type="checkbox"/> C-T7.2			
	AS66 <input type="checkbox"/> S-T10	ASM66 <input type="checkbox"/> C-T10	ASD12C-S	AS66 <input type="checkbox"/> SP-T10	ASM66 <input type="checkbox"/> C-T10	ASD12C-SP		
	AS66 <input type="checkbox"/> S-T20	ASM66 <input type="checkbox"/> C-T20		AS66 <input type="checkbox"/> SP-T20	ASM66 <input type="checkbox"/> C-T20			
	AS66 <input type="checkbox"/> S-T30	ASM66 <input type="checkbox"/> C-T30	ASD16A-S	AS66 <input type="checkbox"/> SP-T30	ASM66 <input type="checkbox"/> C-T30	ASD16A-SP		
	AS98 <input type="checkbox"/> S-T3.6	ASM98 <input type="checkbox"/> C-T3.6		AS98 <input type="checkbox"/> SP-T3.6	ASM98 <input type="checkbox"/> C-T3.6			
	AS98 <input type="checkbox"/> S-T7.2	ASM98 <input type="checkbox"/> C-T7.2		AS98 <input type="checkbox"/> SP-T7.2	ASM98 <input type="checkbox"/> C-T7.2			
	AS98 <input type="checkbox"/> S-T10	ASM98 <input type="checkbox"/> C-T10		AS98 <input type="checkbox"/> SP-T10	ASM98 <input type="checkbox"/> C-T10			
	AS98 <input type="checkbox"/> S-T20	ASM98 <input type="checkbox"/> C-T20	ASD16C-S	AS98 <input type="checkbox"/> SP-T20	ASM98 <input type="checkbox"/> C-T20	ASD16C-SP		
	AS98 <input type="checkbox"/> S-T30	ASM98 <input type="checkbox"/> C-T30		AS98 <input type="checkbox"/> SP-T30	ASM98 <input type="checkbox"/> C-T30			

● Enter **A** (Standard) or **M** (electromagnetic brake) in the box (□) within the model names.

Type	AS			AS PLUS			UL File No.	Page		
	Model	Motor Model	Driver Model	Model	Motor Model	Driver Model				
PN Geared Single-Phase 100-115 VAC	AS66□A-N5	ASM66□A-N5	ASD24A-A	AS66□AP-N5	ASM66□A-N5	ASD24A-AP	Motor E64199 Driver E171462	C-26		
	AS66□A-N7.2	ASM66□A-N7.2		AS66□AP-N7.2	ASM66□A-N7.2					
	AS66□A-N10	ASM66□A-N10		AS66□AP-N10	ASM66□A-N10					
	AS66□A-N25	ASM66□A-N25	ASD24B-A	AS66□AP-N25	ASM66□A-N25	ASD24B-AP				
	AS66□A-N36	ASM66□A-N36	ASD24C-A	AS66□AP-N36	ASM66□A-N36	ASD24C-AP				
	AS66□A-N50	ASM66□A-N50		AS66□AP-N50	ASM66□A-N50					
	AS98□A-N5	ASM98□A-N5	ASD30A-A	AS98□AP-N5	ASM98□A-N5	ASD30A-AP		C-27		
	AS98□A-N7.2	ASM98□A-N7.2		AS98□AP-N7.2	ASM98□A-N7.2					
	AS98□A-N10	ASM98□A-N10		AS98□AP-N10	ASM98□A-N10					
	AS98□A-N25	ASM98□A-N25		AS98□AP-N25	ASM98□A-N25					
	AS98□A-N36	ASM98□A-N36		AS98□AP-N36	ASM98□A-N36					
	AS98□A-N50	ASM98□A-N50		ASD30B-A	AS98□AP-N50				ASM98□A-N50	ASD30B-AP
	PN Geared Single-Phase 200-230 VAC	AS66□C-N5	ASM66□C-N5	ASD12A-C	AS66□CP-N5	ASM66□C-N5		ASD12A-CP	Motor E64199 Driver E171462	C-26
		AS66□C-N7.2	ASM66□C-N7.2		AS66□CP-N7.2	ASM66□C-N7.2				
AS66□C-N10		ASM66□C-N10	AS66□CP-N10		ASM66□C-N10					
AS66□C-N25		ASM66□C-N25	ASD12B-C	AS66□CP-N25	ASM66□C-N25	ASD12B-CP				
AS66□C-N36		ASM66□C-N36	ASD12C-C	AS66□CP-N36	ASM66□C-N36	ASD12C-CP				
AS66□C-N50		ASM66□C-N50		AS66□CP-N50	ASM66□C-N50					
AS98□C-N5		ASM98□C-N5	ASD16A-C	AS98□CP-N5	ASM98□C-N5	ASD16A-CP	C-27			
AS98□C-N7.2		ASM98□C-N7.2		AS98□CP-N7.2	ASM98□C-N7.2					
AS98□C-N10		ASM98□C-N10		AS98□CP-N10	ASM98□C-N10					
AS98□C-N25		ASM98□C-N25		AS98□CP-N25	ASM98□C-N25					
AS98□C-N36		ASM98□C-N36		AS98□CP-N36	ASM98□C-N36					
AS98□C-N50		ASM98□C-N50		ASD16B-C	AS98□CP-N50			ASM98□C-N50		ASD16B-CP
PN Geared Three-Phase 200-230 VAC		AS66□S-N5	ASM66□C-N5	ASD12A-S	AS66□SP-N5	ASM66□C-N5	ASD12A-SP	Motor E64199 Driver E171462		C-26
		AS66□S-N7.2	ASM66□C-N7.2		AS66□SP-N7.2	ASM66□C-N7.2				
	AS66□S-N10	ASM66□C-N10	AS66□SP-N10		ASM66□C-N10					
	AS66□S-N25	ASM66□C-N25	ASD12B-S	AS66□SP-N25	ASM66□C-N25	ASD12B-SP				
	AS66□S-N36	ASM66□C-N36	ASD12C-S	AS66□SP-N36	ASM66□C-N36	ASD12C-SP				
	AS66□S-N50	ASM66□C-N50		AS66□SP-N50	ASM66□C-N50					
	AS98□S-N5	ASM98□C-N5	ASD16A-S	AS98□SP-N5	ASM98□C-N5	ASD16A-SP	C-27			
	AS98□S-N7.2	ASM98□C-N7.2		AS98□SP-N7.2	ASM98□C-N7.2					
	AS98□S-N10	ASM98□C-N10		AS98□SP-N10	ASM98□C-N10					
	AS98□S-N25	ASM98□C-N25		AS98□SP-N25	ASM98□C-N25					
	AS98□S-N36	ASM98□C-N36		AS98□SP-N36	ASM98□C-N36					
	AS98□S-N50	ASM98□C-N50		ASD16B-S	AS98□SP-N50				ASM98□C-N50	ASD16B-SP
	HG Geared Single-Phase 100-115 VAC	AS66□A2-H50	ASM66□A2-H50	ASD24B-A	AS66□AP2-H50	ASM66□A2-H50	ASD24B-AP		C-28	
		AS66□A2-H100	ASM66□A2-H100	ASD24C-A	AS66□AP2-H100	ASM66□A2-H100	ASD24C-AP			
AS98□A-H50		ASM98□A-H50	ASD30B-A	AS98□AP-H50	ASM98□A-H50	ASD30B-AP				
AS98□A-H100		ASM98□A-H100		AS98□AP-H100	ASM98□A-H100					
HG Geared Single-Phase 200-230 VAC	AS66□C2-H50	ASM66□C2-H50	ASD12B-C	AS66□CP2-H50	ASM66□C2-H50	ASD12B-CP				
	AS66□C2-H100	ASM66□C2-H100	ASD12C-C	AS66□CP2-H100	ASM66□C2-H100	ASD12C-CP				
	AS98□C-H50	ASM98□C-H50	ASD16B-C	AS98□CP-H50	ASM98□C-H50	ASD16B-CP				
	AS98□C-H100	ASM98□C-H100		AS98□CP-H100	ASM98□C-H100					
HG Geared Three-Phase 200-230 VAC	AS66□S2-H50	ASM66□C2-H50	ASD12B-S	AS66□SP2-H50	ASM66□C2-H50	ASD12B-SP				
	AS66□S2-H100	ASM66□C2-H100	ASD12C-S	AS66□SP2-H100	ASM66□C2-H100	ASD12C-SP				
	AS98□S-H50	ASM98□C-H50	ASD16B-S	AS98□SP-H50	ASM98□C-H50	ASD16B-SP				
	AS98□S-H100	ASM98□C-H100		AS98□SP-H100	ASM98□C-H100					

• Enter **A** (Standard) or **M** (electromagnetic brake) in the box (□) within the model names.

■ **αSTEP ASC Series**

Type	Model	Motor Model	Driver Model	UL File No.	Page	
Standard	ASC34AK	ASM34AK	ASD10A-K	Motor E208200	C-59	
	ASC36AK	ASM36AK	ASD10B-K			
	ASC46□K	ASM46□K	ASD18A-K			
	ASC66□K	ASM66□K	ASD36A-K			
TH Geared	ASC46□K-T3.6	ASM46□K-T3.6	ASD18B-K		Driver E171462 E208200	C-60
	ASC46□K-T7.2	ASM46□K-T7.2				
	ASC46□K-T10	ASM46□K-T10				
	ASC46□K-T20	ASM46□K-T20				
	ASC46□K-T30	ASM46□K-T30	ASD36B-K			C-61
	ASC66□K-T3.6	ASM66□K-T3.6				
	ASC66□K-T7.2	ASM66□K-T7.2				
	ASC66□K-T10	ASM66□K-T10				
PN Geared	ASC66□K-T20	ASM66□K-T20	ASD18A-K	C-62		
	ASC66□K-T30	ASM66□K-T30				
	ASC66□K-N7.2	ASM46□K-N7.2				
	ASC66□K-N10	ASM46□K-N10				
	ASC66□K-N5	ASM66□K-N5	ASD36A-K		C-63	
	ASC66□K-N7.2	ASM66□K-N7.2				
	ASC66□K-N10	ASM66□K-N10				
	ASC66□K-N25	ASM66□K-N25				
HG Geared	ASC66□K-N36	ASM66□K-N36	ASD36B-K	C-64		
	ASC66□K-N50	ASM66□K-N50				
	ASC34AK-H50	ASM34AK-H50	ASD10C-K			C-65
	ASC34AK-H100	ASM34AK-H100				
	ASC46□K-H50	ASM46□K-H50	ASD18A-K			
	ASC46□K-H100	ASM46□K-H100				
ASC66□K-H50	ASM66□K-H50	ASD36B-K				
ASC66□K-H100	ASM66□K-H100					

● Enter **A** (Standard) or **M** (electromagnetic brake) in the box (□) within the model names.

■ **Stepping Motors RK Series**

In addition to the products listed on pages G-21 and G-22, we also offer products conforming to various safety standards. Refer to page C-79 for details.

Type	Model	Motor Model	Driver Model	UL File No.	EN/IEC Standards		Page
					Motor	Driver	
Standard Single-Phase 100-115 VAC	RK564□A	PK564□W	RKD514L-A	Motor E64199	Certification Body VDE Licence No. 114293	—	C-82
	RK566□A	PK566□W	RKD514L-A				
	RK569□A	PK569□W	RKD514L-A				
	RK596□A	PK596□W	RKD514H-A	Driver E171462			
	RK599□A	PK599□W	RKD514H-A				
	RK5913□A	PK5913□W	RKD514H-A				
Standard Single-Phase 200-230 VAC	RK564□C	PK564□W	RKD514L-C	Motor E64199	Certification Body VDE Licence No. 114293	—	C-82
	RK566□C	PK566□W	RKD514L-C				
	RK569□C	PK569□W	RKD514L-C				
	RK596□C	PK596□W	RKD514H-C	Driver E171462			
	RK599□C	PK599□W	RKD514H-C				
	RK5913□C	PK5913□W	RKD514H-C				
TH Geared Single-Phase 100-115 VAC	RK564□A-T3.6	PK564□W-T3.6	RKD514L-A	Motor E64199	Certification Body VDE Licence No. 114293	—	C-84
	RK564□A-T7.2	PK564□W-T7.2	RKD514L-A				
	RK564□A-T10	PK564□W-T10	RKD514L-A				
	RK564□A-T20	PK564□W-T20	RKD514L-A				
	RK564□A-T30	PK564□W-T30	RKD514L-A				
	RK596□A-T3.6	PK596□W-T3.6	RKD514H-A	Driver E171462			C-85
	RK596□A-T7.2	PK596□W-T7.2	RKD514H-A				
	RK596□A-T10	PK596□W1-T10	RKD514H-A				
	RK596□A-T20	PK596□W1-T20	RKD514H-A				
	RK596□A-T30	PK596□W1-T30	RKD514H-A				

● Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model names.

Type	Model	Motor Model	Driver Model	UL File No.	EN/IEC Standards		Page
					Motor	Driver	
TH Geared Single-Phase 200-230 VAC	RK564 <input type="checkbox"/> C-T3.6	PK564 <input type="checkbox"/> W-T3.6	RKD514L-C	Motor E64199 Driver E171462	Certification Body VDE Licence No. 114293	—	C-84
	RK564 <input type="checkbox"/> C-T7.2	PK564 <input type="checkbox"/> W-T7.2	RKD514L-C				
	RK564 <input type="checkbox"/> C-T10	PK564 <input type="checkbox"/> W-T10	RKD514L-C				
	RK564 <input type="checkbox"/> C-T20	PK564 <input type="checkbox"/> W-T20	RKD514L-C				
	RK596 <input type="checkbox"/> C-T3.6	PK596 <input type="checkbox"/> W-T3.6	RKD514H-C				C-85
	RK596 <input type="checkbox"/> C-T7.2	PK596 <input type="checkbox"/> W-T7.2	RKD514H-C				
	RK596 <input type="checkbox"/> C-T10	PK596 <input type="checkbox"/> W-T10	RKD514H-C				
	RK596 <input type="checkbox"/> C-T20	PK596 <input type="checkbox"/> W-T20	RKD514H-C				
	RK596 <input type="checkbox"/> C-T30	PK596 <input type="checkbox"/> W-T30	RKD514H-C				
PN Geared Single-Phase 100-115 VAC	RK566 <input type="checkbox"/> A-N5	PK566 <input type="checkbox"/> W-N5	RKD514L-A	Motor E64199 Driver E171462	Certification Body VDE Licence No. 114293	—	C-87
	RK566 <input type="checkbox"/> A-N7.2	PK566 <input type="checkbox"/> W-N7.2	RKD514L-A				
	RK566 <input type="checkbox"/> A-N10	PK566 <input type="checkbox"/> W-N10	RKD514L-A				
	RK564 <input type="checkbox"/> A-N25	PK564 <input type="checkbox"/> W-N25	RKD514L-A				
	RK564 <input type="checkbox"/> A-N36	PK564 <input type="checkbox"/> W-N36	RKD514L-A				C-88
	RK564 <input type="checkbox"/> A-N50	PK564 <input type="checkbox"/> W-N50	RKD514L-A				
	RK599 <input type="checkbox"/> A-N5	PK599 <input type="checkbox"/> W-N5	RKD514H-A				
	RK599 <input type="checkbox"/> A-N7.2	PK599 <input type="checkbox"/> W-N7.2	RKD514H-A				
	RK599 <input type="checkbox"/> A-N10	PK599 <input type="checkbox"/> W-N10	RKD514H-A				
	RK596 <input type="checkbox"/> A-N25	PK596 <input type="checkbox"/> W-N25	RKD514H-A				
	RK596 <input type="checkbox"/> A-N36	PK596 <input type="checkbox"/> W-N36	RKD514H-A				
	RK596 <input type="checkbox"/> A-N50	PK596 <input type="checkbox"/> W-N50	RKD514H-A				
PN Geared Single-Phase 200-230 VAC	RK566 <input type="checkbox"/> C-N5	PK566 <input type="checkbox"/> W-N5	RKD514L-C	Motor E64199 Driver E171462	Certification Body VDE Licence No. 114293	—	C-87
	RK566 <input type="checkbox"/> C-N7.2	PK566 <input type="checkbox"/> W-N7.2	RKD514L-C				
	RK566 <input type="checkbox"/> C-N10	PK566 <input type="checkbox"/> W-N10	RKD514L-C				
	RK564 <input type="checkbox"/> C-N25	PK564 <input type="checkbox"/> W-N25	RKD514L-C				
	RK564 <input type="checkbox"/> C-N36	PK564 <input type="checkbox"/> W-N36	RKD514L-C				C-88
	RK564 <input type="checkbox"/> C-N50	PK564 <input type="checkbox"/> W-N50	RKD514L-C				
	RK599 <input type="checkbox"/> C-N5	PK599 <input type="checkbox"/> W-N5	RKD514H-C				
	RK599 <input type="checkbox"/> C-N7.2	PK599 <input type="checkbox"/> W-N7.2	RKD514H-C				
	RK599 <input type="checkbox"/> C-N10	PK599 <input type="checkbox"/> W-N10	RKD514H-C				
	RK596 <input type="checkbox"/> C-N25	PK596 <input type="checkbox"/> W-N25	RKD514H-C				
	RK596 <input type="checkbox"/> C-N36	PK596 <input type="checkbox"/> W-N36	RKD514H-C				
	RK596 <input type="checkbox"/> C-N50	PK596 <input type="checkbox"/> W-N50	RKD514H-C				
HG Geared Single-Phase 100-115 VAC	RK564 <input type="checkbox"/> A-H50	PK564 <input type="checkbox"/> W-H50S	RKD514L-A	Motor E64199	Certification Body VDE Licence No. 114293	—	C-89
	RK564 <input type="checkbox"/> A-H100	PK564 <input type="checkbox"/> W-H100S	RKD514L-A	Driver E171462			
	RK596 <input type="checkbox"/> A-H50	PK596 <input type="checkbox"/> W1-H50	RKD514H-A				
	RK596 <input type="checkbox"/> A-H100	PK596 <input type="checkbox"/> W1-H100	RKD514H-A				
HG Geared Single-Phase 200-230 VAC	RK564 <input type="checkbox"/> C-H50	PK564 <input type="checkbox"/> W-H50S	RKD514L-C	Motor E64199	Certification Body VDE Licence No. 114293	—	C-89
	RK564 <input type="checkbox"/> C-H100	PK564 <input type="checkbox"/> W-H100S	RKD514L-C	Driver E171462			
	RK596 <input type="checkbox"/> C-H50	PK596 <input type="checkbox"/> W1-H50	RKD514H-C				
	RK596 <input type="checkbox"/> C-H100	PK596 <input type="checkbox"/> W1-H100	RKD514H-C				

• Enter **A** (single shaft) or **B** (double shaft) in the box () within the model names.

Stepping Motors 5-Phase CSK Series

Type	Model	Motor Model	Driver Model	UL File No.	Page	
Standard	CSK543-N <input type="checkbox"/> TA	PK543N <input type="checkbox"/> WA	CSD5807N-T	Motor E64199 Driver E171462 E208200	C-122	
	CSK544-N <input type="checkbox"/> TA	PK544N <input type="checkbox"/> WA	CSD5807N-T			
	CSK545-N <input type="checkbox"/> TA	PK545N <input type="checkbox"/> WA	CSD5807N-T			
	CSK564-N <input type="checkbox"/> TA	PK564N <input type="checkbox"/> WA	CSD5814N-T			
	CSK566-N <input type="checkbox"/> TA	PK566N <input type="checkbox"/> WA	CSD5814N-T			
	CSK569-N <input type="checkbox"/> TA	PK569N <input type="checkbox"/> WA	CSD5814N-T			
TH Geared	CSK543 <input type="checkbox"/> A-TG3.6	PK543N <input type="checkbox"/> WA-T3.6	CSD5807N-T	Driver E171462 E208200	C-124	
	CSK543 <input type="checkbox"/> A-TG7.2	PK543N <input type="checkbox"/> WA-T7.2	CSD5807N-T			
	CSK543 <input type="checkbox"/> A-TG10	PK543N <input type="checkbox"/> WA-T10	CSD5807N-T			
	CSK543 <input type="checkbox"/> A-TG20	PK543N <input type="checkbox"/> WA-T20	CSD5807N-T			
	CSK543 <input type="checkbox"/> A-TG30	PK543N <input type="checkbox"/> WA-T30	CSD5807N-T			
	CSK564 <input type="checkbox"/> A-TG3.6	PK564N <input type="checkbox"/> WA-T3.6	CSD5814N-T			C-125
	CSK564 <input type="checkbox"/> A-TG7.2	PK564N <input type="checkbox"/> WA-T7.2	CSD5814N-T			
	CSK564 <input type="checkbox"/> A-TG10	PK564N <input type="checkbox"/> WA-T10	CSD5814N-T			
	CSK564 <input type="checkbox"/> A-TG20	PK564N <input type="checkbox"/> WA-T20	CSD5814N-T			
	CSK564 <input type="checkbox"/> A-TG30	PK564N <input type="checkbox"/> WA-T30	CSD5814N-T			

• Enter **A** (single shaft) or **B** (double shaft) in the box () within the model names.

■ Low-Speed Synchronous Motors

Model	Overheating Protection Device	UL File No.	Page
SMK237A-A	Impedance Protection	E64199	C-273
SMK216A-GN	Impedance Protection	E64199	C-273
SMK5100A-AA	Impedance Protection	E64199	C-273
SMK5160A-AA	Impedance Protection	E64199	C-273
SMK550A-GN	Impedance Protection	E64199	C-273

■ AC Axial Flow Fans **MRS Series**

Model	Overheating Protection Device	UL File No.	CSA * Certificate No.	Degree of Protection	EN/IEC Standard		Page
					Certification Body	Licence No. or Certificate No.	
MRS25-B MRS25-D MRS25-T MRS25-BM MRS25-DM MRS25-TM MRS25-BB MRS25-DB MRS25-TB	Thermal Protector	E58377	—*	IP00	—	—	E-24
MRS20-BUL MRS20-BM MRS20-DUL MRS20-DM MRS20-TUL MRS20-TM		E58377	LR62524	IP00	VDE	5867	E-26
MRS18-BUL MRS18-BTM MRS18-DUL MRS18-DTM MRS18-TUL MRS18-TTM		E58377	LR62524	IP00	VDE	5868	E-28
MRS16-BUL MRS16-BTM MRS16-BTA MRS16-DUL MRS16-DTM MRS16-DTA MRS16-TUL MRS16-TTM MRS16-TTA		E58377	LR62524	IP00	VDE	5869	E-30
MRS14-TUL MRS14-TTM		E58377	LR62524	IP00	VDE	5866	E-32
MRS18V2-B MRS18V2-D		E58377	—*	IP00	DEMKO	138655	E-34

* The **MRS25** and **MRS18V2** types are recognized to Canadian safety requirements under the Component Recognition Program of Underwriters Laboratories Inc.

■ DC Axial Flow Fans MDS•MD Series

Model	UL File No.	Degree of Protection	EN/IEC Standard		Page
			Certification Body	Certificate No.	
MDS1751-24	E58377	IP00	DEMKO	135713	E-46
MDS1751-24B MDS1751-24S	E58377	IP00	—	—	
MDE1225-12L MDE1225-24L	E58377	IP00	DEMKO	135713	E-44
MDS1225-12 MDS1225-12M MDS1225-24 MDS1225-24M					E-48
MD1225-12 MD1225-24					E-50
MD925A-12 MD925A-12L MD925A-24 MD925A-24L MD925AM-12 MD925AM-24 MD925AL-12 MD925AL-24					E-52
MD925A-12S MD925A-24S	E58377	IP00	—	—	E-52
MD825B-12 MD825B-12L MD825B-24 MD825B-24L MD825BM-12 MD825BM-24 MD825BL-12	E58377	IP00	DEMKO	135713	E-54
MD825B-12S MD825B-24S	E58377	IP00	—	—	E-54
MD625B-12 MD625B-12L MD625B-24 MD625B-24L MD625BM-12 MD625BM-24	E58377	IP00	DEMKO	135713	E-56
MD625B-12S MD625B-24S	E58377	IP00	—	—	E-56
MDS510-12 MDS510-12L MDS510-24 MDS510-24L MDS510M-5 MDS510M-12 MDS510M-24	E58377	IP00	DEMKO	135713	E-58
MDS410-12 MDS410-12L MDS410-24 MDS410-24L MDS410M-5	E58377	IP00	DEMKO	135713	E-60

■ AC Axial Flow Fans **MU Series**

Model	Overheating Protection Device	UL File No.	CSA Certificate No.	Degree of Protection	EN/IEC Standard		JET Certificate No.	Page
					Certification Body	Licence No.		
MU1238A-21B MU1238B-21B MU1238L-21B	Impedance Protection	E58377	LR62524	IP00	VDE	5870	0018-91002-001	E-36
MU1238A-51B MU1238B-51B MU1238L-51B		E58377	LR62524	IP00	VDE	5870	0018-91002-002	E-36
MU1225S-21 MU1225M-21		E58377	LR62524	IP00	VDE	5870	0018-91002-001	E-38
MU1225S-51 MU1225M-51		E58377	LR62524	IP00	VDE	5870	0018-91002-002 0018-91002-003	E-38
MU925S-21 MU925M-21		E58377	LR62524	IP00	VDE	5870	0018-91002-001	E-40
MU925S-51 MU925M-51		E58377	LR62524	IP00	VDE	5870	0018-91002-002 0018-91002-003	E-40
MU825S-23 MU825S-53		E58377	LR62524	IP00	VDE	5870	—	E-42

■ Centrifugal Blowers **MB Series**

Model	Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
				Certification Body	Licence No. or Certificate No.	
MB1665-B MB1665-D MB1665-T	Thermal Protector	E58377	IP00	VDE	6755	E-66
MB1255-B MB1255-D	Thermal Protector	E58377	IP00	VDE	6755	E-68
MB1255-T	Thermal Protector	E58377	IP00	—	—	E-68
MB1040-B MB1040-D	Thermal Protector	E58377	IP00	VDE	6755	E-70
MB840-B MB840-D	Thermal Protector	E58377	IP00	DEMKO	135714	E-72
MB840-T	Thermal Protector	E58377	IP00	—	—	E-72
MB630-B MB630-D	Impedance Protection	E58377	IP00	VDE	6755	E-74
MB520-B MB520-D	Impedance Protection	E58377	IP00	VDE	6755	E-76

■ Cross Flow Fans **MF Series**

Model	Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
				Certification Body	Licence No.	
MF930-BC MF930B-BC MF930-DC MF930B-DC	Thermal Protector	E58377	IP00	VDE	5854	E-88
MF915-BC MF915B-BC MF915-DC MF915B-DC	Thermal Protector	E58377	IP00	VDE	5854	E-90

■ Thermostats

Model	UL File No.	CSA Certificate No.	Degree of Protection	Page
AM1-WA1 AM1-XA1	E164102	E164102	IP00	E-98

ISO9001 and ISO14001

Quality is vital for a company operating on a worldwide scale.
The quality assurance system at Oriental Motor meets all global requirements.

■ ISO9000 Series

Oriental Motor has put in place a quality assurance system to ensure our products satisfy the quality needs of all customers. Our quality assurance system consists of four components: a forward-thinking product development system for creating new products that meet the anticipated needs of our customers in the future; an immediate delivery system that can flexibly address the demands for multi-product, small-lot production; a responsive sales system for answering all customer inquiries in a timely manner; and a comprehensive after-sales service system. We at Oriental Motor are continually improving these key components of our quality assurance system.

■ ISO14000 Series

Oriental Motor plays a positive role in preserving the global environment. Protecting the global environment is a major task for all humankind. Companies in the manufacturing sector must contribute to this effort. Oriental Motor is fully aware of its environmental responsibilities. We strive to create environmentally friendly products and reduce the output of waste. We believe that acquisition of the ISO14001 standard, which is related to the environment, is an important step to promote activities of environmental preservation.

■ Plants that have acquired Certification for ISO9001 and ISO14001

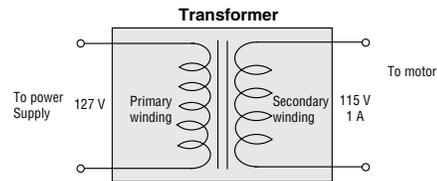
Plants	Products
Tsuruoka Plants (Chuo, Nishi, Higashi)	AC Motors
Tsuchiura Plant	Brushless DC Motors
Takamatsu Plants (Tarumi, Kozai)	Stepping Motors
Soma Plant	Servo Motors
Kashiwa Plant	Fan Motors
U.S.A. Plant (ISO9001 Only)	Drive Circuits
	Electric actuators
	Accessories

Global Power Supply Voltages

Country	Frequency	Voltage
Canada	60 Hz	Single-Phase 120/347 VAC, Three-Phase 208/240/600 VAC
U.S.A.	60 Hz	Single-Phase 115/230 VAC, Three-Phase 230 VAC
Austria	50 Hz	Single-Phase 230 VAC, Three-Phase 400 VAC
Belgium	50 Hz	Single-Phase 230 VAC, Three-Phase 400 VAC
Bulgaria	50 Hz	Single-Phase 220 VAC, Three-Phase 380 VAC
Czech Republic	50 Hz	Single-Phase 220 VAC, Three-Phase 380 VAC
Denmark	50 Hz	Single-Phase 230 VAC, Three-Phase 400 VAC
Finland	50 Hz	Single-Phase 230 VAC, Three-Phase 400 VAC
France	50 Hz	Single-Phase 230 VAC, Three-Phase 400 VAC
Germany	50 Hz	Single-Phase 230 VAC, Three-Phase 400 VAC
Greece	50 Hz	Single-Phase 230 VAC, Three-Phase 400 VAC
Hungary	50 Hz	Single-Phase 220 VAC, Three-Phase 380 VAC
Italy	50 Hz	Single-Phase 220 VAC, Three-Phase 380 VAC
Luxembourg	50 Hz	Single-Phase 230 VAC, Three-Phase 400 VAC
Netherlands	50 Hz	Single-Phase 230 VAC, Three-Phase 400 VAC
Norway	50 Hz	Single-Phase 220/230 VAC, Three-Phase 380 VAC
Poland	50 Hz	Single-Phase 220 VAC, Three-Phase 380 VAC
Portugal	50 Hz	Single-Phase 230 VAC, Three-Phase 400/480 VAC
Romania	50 Hz	Single-Phase 220 VAC, Three-Phase 380 VAC
Spain	50 Hz	Single-Phase 127/220 VAC, Three-Phase 220/380 VAC
Sweden	50 Hz	Single-Phase 230/400 VAC, Three-Phase 400/690 VAC
Switzerland	50 Hz	Single-Phase 230 VAC, Three-Phase 400 VAC
United Kingdom	50 Hz	Single-Phase 240 VAC, Three-Phase 415VAC
China	50 Hz	Single-Phase 220 VAC, Three-Phase 220 VAC
Japan	50/60 Hz	Single-Phase 100/200 VAC, Three-Phase 200 VAC
Korea	60 Hz	Single-Phase 110/220 VAC, Three-Phase 200/220/380 VAC
Malaysia	50 Hz	Single-Phase 240 VAC, Three-Phase 415 VAC
Thailand	50 Hz	Single-Phase 220 VAC, Three-Phase 380 VAC
India	50 Hz	Single-Phase 230/240 VAC, Three-Phase 400/415 VAC
Singapore	50 Hz	Single-Phase 230 VAC, Three-Phase 400 VAC
Taiwan	60 Hz	Single-Phase 110/220 VAC, Three-Phase 220/380 VAC

Power Supply Voltage and Motor Rated Voltage

Line voltage varies from country to country and, in some places, from city to city. The line voltages and frequencies of many countries are shown in the table above. Oriental Motor offers motors and fans for worldwide use. Our wide range of products includes those that meet North American voltage specifications, as well as Asian and European voltage specifications. If a motor is to be used with a different power supply voltage than specified, a transformer must be connected between the power supply and the motor. The primary winding of the transformer should be of the same voltage as the power source, and the secondary winding voltage should be the same as the voltage rating of the motor or fan.



The transformer should be rated for a current of at least twice the rated motor current to allow for the current peak at motor start. The transformer should also possess stable transforming characteristics.

Product Line Updates

Some products published in previous versions of this catalog may not be included in the current version. If you cannot find an Oriental Motor product in this catalog, refer to the list below. If it is listed under Previously Published Products, the equivalent Recommended Substitution is listed in the next column. If you have any questions regarding any product line updates, contact your local sales office.

Note:

- The specifications and/or drawings for the Recommended Substitution and the Previously Published Products may not be exactly the same. Please check them carefully before deciding which product to use.

Standard AC Motors

Previously Published Products (not included in this catalog)	Recommended Substitution	Page
2GB10XK 2GB3KA 2GB3.6KA 2GB5KA 2GB6KA 2GB7.5KA 2GB9KA 2GB12.5KA 2GB15KA 2GB18KA 2GB25KA 2GB30KA 2GB36KA 2GB50KA 2GB60KA 2GB75KA 2GB90KA 2GB100KA 2GB120KA 2GB150KA 2GB180KA 2GB250KA 2GB300KA 2GB360KA	2GN□KA Type Motor and gearhead need to be replaced together. Motor and gearhead can not be replaced separately.	A-20
4GB10XK 4GB3KA 4GB3.6KA 4GB5KA 4GB6KA 4GB7.5KA 4GB9KA 4GB12.5KA 4GB15KA 4GB18KA 4GB25KA 4GB30KA 4GB36KA 4GB50KA 4GB60KA 4GB75KA 4GB90KA 4GB100KA 4GB120KA 4GB150KA 4GB180KA 4GB250KA 4GB300KA 4GB360KA	4GN□KA Type Motor and gearhead need to be replaced together. Motor and gearhead can not be replaced separately.	A-28
2I13A-AULA 2I13GB-AUL 4I115A-AULA 4I115GB-AUL 2RJ4A-AULA 2RJ4GB-AUL 4RJ20A-AULA 4RJ20GB-AUL 2IK6A-AULA 2IK6GN-AUL 3IK15A-AULA 3IK15GN-AUL 4IK25A-AULA 4IK25GN-AUL	2IK6A-AWU 2IK6GN-AWU 4IK25A-AWU 4IK25GN-AWU 2RK6A-AWU 2RK6GN-AWU 4RK25A-AWU 4RK25GN-AWU 2IK6A-AWU 2IK6GN-AWU 3IK15A-AWU 3IK15GN-AWU 4IK25A-AWU 4IK25GN-AWU	A-20 A-20 A-28 A-28 A-28 A-28 A-28 A-28 A-28 A-20 A-20 A-24 A-24 A-28 A-28

Previously Published Products (not included in this catalog)	Recommended Substitution	Page
5IK40A-AULA 5IK40GN-AUL 5IK60A-AFUL 5IK60GU-AFUL 5IK90A-AFUL 5IK90GU-AFUL 2RK6A-AULA 2RK6GN-AUL 2RK6A-AMULA 2RK6GN-AMUL 3RK15A-AULA 3RK15GN-AUL 3RK15A-AMULA 3RK15GN-AMUL 4RK25A-AULA 4RK25GN-AUL 4RK25A-AMULA 4RK25GN-AMUL 5RK40A-AULA 5RK40GN-AUL 5RK40A-AMULA 5RK40GN-AMUL 5RK60A-AMUL 5RK60GU-AFUL 5RK60GU-AMUL 5RK90A-AMUL 5RK90GU-AFUL 5RK90GU-AMUL	5IK40A-AWU 5IK40GN-AWU 5IK60A-AWU 5IK60GU-AWU 5IK90A-AWU 5IK90GU-AWU 2RK6A-AWU 2RK6GN-AWU 2RK6A-AWMU 2RK6GN-AWMU 3RK15A-AWU 3RK15GN-AWU 3RK15A-AWMU 3RK15GN-AWMU 4RK25A-AWU 4RK25GN-AWU 4RK25A-AWMU 4RK25GN-AWMU 5RK40A-AWU 5RK40GN-AWU 5RK40A-AWMU 5RK40GN-AWMU 5RK60A-AWMU 5RK60GU-AWU 5RK60GU-AWMU 5RK90A-AWMU 5RK90GU-AWU 5RK90GU-AWMU	A-34 A-34 A-40 A-40 A-47 A-47 A-74 A-74 A-132 A-132 A-78 A-78 A-137 A-137 A-82 A-82 A-142 A-142 A-87 A-87 A-147 A-147 A-152 A-92 A-152 A-157 A-97 A-157

Speed Control Systems

Previously Published Products (not included in this catalog)	Recommended Substitution	Page
2IK6RA-AULA 2IK6RGN-AUL 3IK15RA-AULA 3IK15RGN-AUL 4IK22RA-AULA 4IK22RGN-AUL 5IK40RA-AULA 5IK40RGN-AUL HBL210K-AA HBL210K-GN/2GN□KA HBL425K-AA HBL425K-GN/4GN□KA HBL540K-AA HBL540K-GN/5GN□KA PAVR-20KY SC206-001WU SC206-002WE SC206-011WU SC206-012WE SC206-401WU SC206-402WE SC206-411WU SC206-412WE SC315-001WU SC315-002WE	2IK6RA-AWU 2IK6RGN-AWU 3IK15RA-AWU 3IK15RGN-AWU 4IK22RA-AWU 4IK22RGN-AWU 5IK40RA-AWU 5IK40RGN-AWU AXH230KC-A AXH230KC-□ AXH450KC-A AXH450KC-□ AXH5100KC-A AXH5100KC-□ PAVR-20KZ 2IK6RA-AWU/ES01 2IK6RA-CWE/ES02 2RK6RA-AWU/ES01 2RK6RA-CWE/ES02 2IK6RGN-AWU/ES01 2IK6RGN-CWE/ES02 2RK6RGN-AWU/ES01 2RK6RGN-CWE/ES02 3IK15RA-AWU/ES01 3IK15RA-CWE/ES02	B-86 B-86 B-86 B-86 B-86 B-86 B-86 B-86 B-58 B-58 B-58 B-58 B-58 B-58 A-216 B-86 B-86 B-86 B-86 B-86 B-86 B-86 B-86 B-86 B-86 B-86

Previously Published Products (not included in this catalog)	Recommended Substitution	Page
SC315-011WU	3RK15RA-AWU/ES01	B-86
SC315-012WE	3RK15RA-CWE/ES02	B-86
SC315-401WU	3IK15RGN-AWU/ES01	B-86
SC315-402WE	3IK15RGN-CWE/ES02	B-86
SC315-411WU	3RK15RGN-AWU/ES01	B-86
SC315-412WE	3RK15RGN-CWE/ES02	B-86
SC425-001WU	4IK25RA-AWU/ES01	B-86
SC425-002WE	4IK25RA-CWE/ES02	B-86
SC425-011WU	4RK25RA-AWU/ES01	B-86
SC425-012WE	4RK25RA-CWE/ES02	B-86
SC425-401WU	4IK25RGN-AWU/ES01	B-86
SC425-402WE	4IK25RGN-CWE/ES02	B-86
SC425-411WU	4RK25RGN-AWU/ES01	B-86
SC425-412WE	4RK25RGN-CWE/ES02	B-86
SC540-001WU	5IK40RA-AWU/ES01	B-86
SC540-002WE	5IK40RA-CWE/ES02	B-86
SC540-011WU	5RK40RA-AWU/ES01	B-86
SC540-012WE	5RK40RA-CWE/ES02	B-86
SC540-401WU	5IK40RGN-AWU/ES01	B-86
SC540-402WE	5IK40RGN-CWE/ES02	B-86
SC540-411WU	5RK40RGN-AWU/ES01	B-86
SC540-412WE	5RK40RGN-CWE/ES02	B-86
SC560-001WU	5IK60RA-AWU/ES01	B-86
SC560-002WE	5IK60RA-CWE/ES02	B-86
SC560-011WU	5RK60RA-AWU/ES01	B-86
SC560-012WE	5RK60RA-CWE/ES02	B-86
SC560-501WU	5IK60RGU-AWU/ES01	B-86
SC560-502WE	5IK60RGU-CWE/ES02	B-86
SC560-511WU	5RK60RGU-AWU/ES01	B-86
SC560-512WE	5RK60RGU-CWE/ES02	B-86
SS21-UL	ES01	B-86

Stepping Motors

Previously Published Products (not included in this catalog)	Recommended Substitution	Page
D4CL-5.0	D4CL-5.0F	C-293
D6CL-6.3	D6CL-6.3F	C-293
D6CL-8.0	D6CL-8.0F	C-293
D9CL-12.7	D9CL-12.7F	C-293
D9CL-14	D9CL-14F	C-293
PMU33AH3	PMC33A3	C-138
PMU33BH3	PMC33B3	C-138
PMU35AH3	PMC35A3	C-138
PMU35BH3	PMC35B3	C-138
PMU33AH1-MG3.6*2	PMC33A1-MG3.6	C-139
PMU33BH1-MG3.6*2	PMC33B1-MG3.6	C-139
PMU33AH1-MG7.2*2	PMC33A1-MG7.2	C-139
PMU33BH1-MG7.2*2	PMC33B1-MG7.2	C-139
PMU33AH1-MG10*2	PMC33A1-MG10	C-139
PMU33BH1-MG10*2	PMC33B1-MG10	C-139
PMU33AH1-MG20*2	PMC33A1-MG20	C-139
PMU33BH1-MG20*2	PMC33B1-MG20	C-139
PMU33AH1-MG30*2	PMC33A1-MG30	C-139
PMU33BH1-MG30*2	PMC33B1-MG30	C-139
RFK543AA	CFK543AT	C-109
RFK543BA	CFK543BT	C-109
RFK544AA	CFK544AT	C-109
RFK544BA	CFK544BT	C-109
RFK545AA	CFK545AT	C-109
RFK545BA	CFK545BT	C-109
RFK564AA	CFK564AT	C-109
RFK564BA	CFK564BT	C-109
RFK566AA	CFK566AT	C-109
RFK566BA	CFK566BT	C-109
RFK569AA	CFK569AT	C-109
RFK569BA	CFK569BT	C-109
SMK014K-AA	SMK014A-A	C-274
UFK564AW*1	RK564AA	C-82
UFK564BW*1	RK564BA	C-82
UFK566AW*1	RK566AA	C-82
UFK566BW*1	RK566BA	C-82
UFK569AW*1	RK569AA	C-82

Previously Published Products (not included in this catalog)	Recommended Substitution	Page
UFK569BW*1	RK569BA	C-82
UFK596AW*1	RK596AA	C-82
UFK596BW*1	RK596BA	C-82
UFK599AW*1	RK599AA	C-82
UFK599BW*1	RK599BA	C-82
UFK5913AW*1	RK5913AA	C-82
UFK5913BW*1	RK5913BA	C-82
UFK564AW-T3.6*1	RK564AA-T3.6	C-84
UFK564BW-T3.6*1	RK564BA-T3.6	C-84
UFK564AW-T7.2*1	RK564AA-T7.2	C-84
UFK564BW-T7.2*1	RK564BA-T7.2	C-84
UFK564AW-T10*1	RK564AA-T10	C-84
UFK564BW-T10*1	RK564BA-T10	C-84
UFK564AW-T20*1	RK564AA-T20	C-84
UFK564BW-T20*1	RK564BA-T20	C-84
UFK564AW-T30*1	RK564AA-T30	C-84
UFK564BW-T30*1	RK564BA-T30	C-84
UFK596AW-T3.6*1	RK596AA-T3.6	C-85
UFK596BW-T3.6*1	RK596BA-T3.6	C-85
UFK596AW-T7.2*1	RK596AA-T7.2	C-85
UFK596BW-T7.2*1	RK596BA-T7.2	C-85
UFK596AW-T10*1	RK596AA-T10	C-85
UFK596BW-T10*1	RK596BA-T10	C-85
UFK596AW-T20*1	RK596AA-T20	C-85
UFK596BW-T20*1	RK596BA-T20	C-85
UFK596AW-T30*1	RK596AA-T30	C-85
UFK596BW-T30*1	RK596BA-T30	C-85
UFK566AW-N5*1	RK566AA-N5	C-87
UFK566BW-N5*1	RK566BA-N5	C-87
UFK566AW-N7.2*1	RK566AA-N7.2	C-87
UFK566BW-N7.2*1	RK566BA-N7.2	C-87
UFK566AW-N10*1	RK566AA-N10	C-87
UFK566BW-N10*1	RK566BA-N10	C-87
UFK564AW-N25*1	RK564AA-N25	C-87
UFK564BW-N25*1	RK564BA-N25	C-87
UFK564AW-N36*1	RK564AA-N36	C-87
UFK564BW-N36*1	RK564BA-N36	C-87
UFK564AW-N50*1	RK564AA-N50	C-87
UFK564BW-N50*1	RK564BA-N50	C-87
UPK543AA*1	RK543AA	C-81
UPK543BA*1	RK543BA	C-81
UPK544AA*1	RK544AA	C-81
UPK544BA*1	RK544BA	C-81
UPK545AA*1	RK545AA	C-81
UPK545BA*1	RK545BA	C-81
UPK564AA*1	RK564AA	C-82
UPK564BA*1	RK564BA	C-82
UPK566AA*1	RK566AA	C-82
UPK566BA*1	RK566BA	C-82
UPK569AA*1	RK569AA	C-82
UPK569BA*1	RK569BA	C-82
UPK569AHA	AS69AA	C-21
UPK569BHA	AS69AA	C-21
UPK596AA*1	RK596AA	C-82
UPK596BA*1	RK596BA	C-82
UPK599AA*1	RK599AA	C-82
UPK599BA*1	RK599BA	C-82
UPK5913AA*1	RK5913AA	C-82
UPK5913BA*1	RK5913BA	C-82
UPK596AHA	AS98AA	C-21
UPK596BHA	AS98AA	C-21
UPK599AHA	AS911AA	C-21
UPK599BHA	AS911AA	C-21
UPK5913AHA	AS911AA	C-21
UPK5913BHA	AS911AA	C-21
UPK543AW*1	RK564AA	C-82
UPK543BW*1	RK564BA	C-82
UPK544AW*1	RK564AA	C-82
UPK544BW*1	RK564BA	C-82
UPK545AW*1	RK564AA	C-82
UPK545BW*1	RK564BA	C-82
UPK564AW2*1	RK564AA	C-82
UPK564BW2*1	RK564BA	C-82
UPK566AW2*1	RK566AA	C-82
UPK566BW2*1	RK566BA	C-82
UPK569AW2*1	RK569AA	C-82
UPK569BW2*1	RK569BA	C-82

*1 AS Series is also available to replace UPK-W, UFK-W, UPK Series.

*2 ASC Series is available to replace PMU Series.

● AS Series model names apply to single shaft types. If double shaft models are required, please contact our sales office.

*1 AS Series is also available to replace UPK-W, UFK-W, UPK Series.

● AS Series model names apply to single shaft types. If double shaft models are required, please contact our sales office.

Previously Published Products (not included in this catalog)	Recommended Substitution	Page
UPK596AW2*1	RK596AA	C-82
UPK596BW2*1	RK596BA	C-82
UPK599AW2*1	RK599AA	C-82
UPK599BW2*1	RK599BA	C-82
UPK5913AW2*1	RK5913AA	C-82
UPK5913BW2*1	RK5913BA	C-82
UPK564AJW*1	RK564AC	C-82
UPK564BJW*1	RK564BC	C-82
UPK566AJW*1	RK566AC	C-82
UPK566BJW*1	RK566BC	C-82
UPK569AJW*1	RK569AC	C-82
UPK569BJW*1	RK569BC	C-82
UPK596AJW*1	RK596AC	C-82
UPK596BJW*1	RK596BC	C-82
UPK599AJW*1	RK599AC	C-82
UPK599BJW*1	RK599BC	C-82
UPK5913AJW*1	RK5913AC	C-82
UPK5913BJW*1	RK5913BC	C-82
UPK569AHW2	AS69AA	C-21
UPK569BHW2	AS69AA	C-21
UPK596AHW2	AS98AA	C-21
UPK596BHW2	AS98AA	C-21
UPK599AHW2	AS911AA	C-21
UPK599BHW2	AS911AA	C-21
UPK5913AHW2	AS911AA	C-21
UPK5913BHW2	AS911AA	C-21
UPK543AW-T3.6*1	RK543AA-T3.6	C-83
UPK543BW-T3.6*1	RK543BA-T3.6	C-83
UPK543AW-T7.2*1	RK543AA-T7.2	C-83
UPK543BW-T7.2*1	RK543BA-T7.2	C-83
UPK543AW-T10*1	RK543AA-T10	C-83
UPK543BW-T10*1	RK543BA-T10	C-83
UPK543AW-T20*1	RK543AA-T20	C-83
UPK543BW-T20*1	RK543BA-T20	C-83
UPK543AW-T30*1	RK543AA-T30	C-83
UPK543BW-T30*1	RK543BA-T30	C-83
UPK564AW-T3.6*1	RK564AA-T3.6	C-84
UPK564BW-T3.6*1	RK564BA-T3.6	C-84
UPK564AW-T7.2*1	RK564AA-T7.2	C-84
UPK564BW-T7.2*1	RK564BA-T7.2	C-84
UPK564AW-T10*1	RK564AA-T10	C-84
UPK564BW-T10*1	RK564BA-T10	C-84
UPK564AW-T20*1	RK564AA-T20	C-84
UPK564BW-T20*1	RK564BA-T20	C-84
UPK564AW-T30*1	RK564AA-T30	C-84
UPK564BW-T30*1	RK564BA-T30	C-84
UPK564AJW-T3.6*1	RK564AC-T3.6	C-84
UPK564BJW-T3.6*1	RK564BC-T3.6	C-84
UPK564AJW-T7.2*1	RK564AC-T7.2	C-84
UPK564BJW-T7.2*1	RK564BC-T7.2	C-84
UPK564AJW-T10*1	RK564AC-T10	C-84
UPK564BJW-T10*1	RK564BC-T10	C-84
UPK564AJW-T20*1	RK564AC-T20	C-84
UPK564BJW-T20*1	RK564BC-T20	C-84
UPK564AJW-T30*1	RK564AC-T30	C-84
UPK564BJW-T30*1	RK564BC-T30	C-84
UPK596AW-T3.6*1	RK596AA-T3.6	C-85
UPK596BW-T3.6*1	RK596BA-T3.6	C-85
UPK596AW-T7.2*1	RK596AA-T7.2	C-85
UPK596BW-T7.2*1	RK596BA-T7.2	C-85
UPK596AW-T10*1	RK596AA-T10	C-85
UPK596BW-T10*1	RK596BA-T10	C-85
UPK596AW-T20*1	RK596AA-T20	C-85
UPK596BW-T20*1	RK596BA-T20	C-85
UPK596AW-T30*1	RK596AA-T30	C-85
UPK596BW-T30*1	RK596BA-T30	C-85
UPK596AJW-T3.6*1	RK596AC-T3.6	C-85
UPK596BJW-T3.6*1	RK596BC-T3.6	C-85
UPK596AJW-T7.2*1	RK596AC-T7.2	C-85
UPK596BJW-T7.2*1	RK596BC-T7.2	C-85
UPK596AJW-T10*1	RK596AC-T10	C-85
UPK596BJW-T10*1	RK596BC-T10	C-85
UPK596AJW-T20*1	RK596AC-T20	C-85
UPK596BJW-T20*1	RK596BC-T20	C-85
UPK596AJW-T30*1	RK596AC-T30	C-85
UPK596BJW-T30*1	RK596BC-T30	C-85
UPK566AW-N5*1	RK566AA-N5	C-87

*1 AS Series is also available to replace **UPK-W, UFK-W, UPK** Series.
 ● AS Series model names apply to single shaft types. If double shaft models are required, please contact our sales office.

Previously Published Products (not included in this catalog)	Recommended Substitution	Page
UPK566BW-N5*1	RK566BA-N5	C-87
UPK566AW-N10*1	RK566AA-N10	C-87
UPK566BW-N10*1	RK566BA-N10	C-87
UPK566AW-N7.2*1	RK566AA-N7.2	C-87
UPK566BW-N7.2*1	RK566BA-N7.2	C-87
UPK564AW-N25*1	RK564AA-N25	C-87
UPK564BW-N25*1	RK564BA-N25	C-87
UPK564AW-N36*1	RK564AA-N36	C-87
UPK564BW-N36*1	RK564BA-N36	C-87
UPK564AW-N50*1	RK564AA-N50	C-87
UPK564BW-N50*1	RK564BA-N50	C-87
UPK566AJW-N5*1	RK566AC-N5	C-87
UPK566BJW-N5*1	RK566BC-N5	C-87
UPK566AJW-N7.2*1	RK566AC-N7.2	C-87
UPK566BJW-N7.2*1	RK566BC-N7.2	C-87
UPK566AJW-N10*1	RK566AC-N10	C-87
UPK566BJW-N10*1	RK566BC-N10	C-87
UPK564AJW-N25*1	RK564AC-N25	C-87
UPK564BJW-N25*1	RK564BC-N25	C-87
UPK564AJW-N36*1	RK564AC-N36	C-87
UPK564BJW-N36*1	RK564BC-N36	C-87
UPK564AJW-N50*1	RK564AC-N50	C-87
UPK564BJW-N50*1	RK564BC-N50	C-87

*1 AS Series is also available to replace **UPK-W, UFK-W, UPK** Series.
 ● AS Series model names apply to single shaft types. If double shaft models are required, please contact our sales office.

Linear Motion

Previously Published Products (not included in this catalog)	Recommended Substitution	Page
5LB10N-□	5LB10U-□	D-30
5LB20N-□	5LB20U-□	D-30
5LB45N-□	5LB45U-□	D-30
5LF10N-□	5LF10U-□	D-30
5LF20N-□	5LF20U-□	D-30
5LF45N-□	5LF45U-□	D-30

● Enter the number which indicates the stroke length in the box (□) within the model name.
 ● Motor and linear head need to be replaced together.

Cooling Fans

Previously Published Products (not included in this catalog)	Recommended Substitution	Page
FG4B	FG4D	E-102
FG5B	FG5D	E-102
FG6B	FG6D	E-102

Product Index

• Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page	Model	Page	Model	Page
0					
0GN (Gearheads)					
0GN100KA	A-18	2GN10XK	A-20	2LB25N-2	D-22
0GN12.5KA	A-18	2GN12.5KA	A-20	2LB25N-3	D-22
0GN120KA	A-18	2GN120KA	A-20	2LB25N-4	D-22
0GN150KA	A-18	2GN150KA	A-20	2LB25N-5	D-22
0GN15KA	A-18	2GN15KA	A-20	2LB50N-1	D-22
0GN180KA	A-18	2GN180KA	A-20	2LB50N-2	D-22
0GN18KA	A-18	2GN18KA	A-20	2LB50N-3	D-22
0GN25KA	A-18	2GN25KA	A-20	2LB50N-4	D-22
0GN3.6KA	A-18	2GN3.6KA	A-20	2LB50N-5	D-22
0GN30KA	A-18	2GN30KA	A-20	2LF10N-1	D-22
0GN36KA	A-18	2GN36KA	A-20	2LF10N-2	D-22
0GN7.5KA	A-18	2GN3KA	A-20	2LF10N-3	D-22
0GN90KA	A-18	2GN50KA	A-20	2LF10N-4	D-22
0GN9KA	A-18	2GN5KA	A-20	2LF10N-5	D-22
		2GN60KA	A-20	2LF25N-1	D-22
		2GN6KA	A-20	2LF25N-2	D-22
		2GN7.5KA	A-20	2LF25N-3	D-22
		2GN75KA	A-20	2LF25N-4	D-22
		2GN90KA	A-20	2LF25N-5	D-22
		2GN9KA	A-20	2LF50N-1	D-22
				2LF50N-2	D-22
				2LF50N-3	D-22
				2LF50N-4	D-22
				2LF50N-5	D-22
0IK (Induction Motors)					
0IK1A-AUL	A-18	2IK (Induction Motors)			
0IK1GN-AUL	A-18	2IK6A-AWTU	A-20	2IK6A-AWU	A-20
		2IK6A-AWU	A-20	2IK6A-CWE	A-20
		2IK6A-CWE	A-20	2IK6A-CWTE	A-20
		2IK6A-CWTE	A-20	2IK6A-SW	A-20
		2IK6A-SW	A-20	2IK6A-SWM	A-132
		2IK6A-SWM	A-132	2IK6A-SWT	A-20
		2IK6A-SWT	A-20	2IK6GN-AWTU	A-20
		2IK6GN-AWTU	A-20	2IK6GN-AWU	A-20
		2IK6GN-AWU	A-20	2IK6GN-CWE	A-20
		2IK6GN-CWE	A-20	2IK6GN-CWTE	A-20
		2IK6GN-CWTE	A-20	2IK6GN-SW	A-20
		2IK6GN-SW	A-20	2IK6GN-SWM	A-132
		2IK6GN-SWM	A-132	2IK6GN-SWT	A-20
		2IK6GN-SWT	A-20	2IK6RA-AWU	B-88
		2IK6RA-AWU	B-88	2IK6RA-CWE	B-88
		2IK6RA-CWE	B-88	2IK6RGN-AWU	B-88
		2IK6RGN-AWU	B-88	2IK6RGN-CWE	B-88
		2IK6RGN-CWE	B-88		
				2J (Accessories)	
				2J-1A2	D-40
				2J-2A2	D-40
				2J-3A2	D-40
				2JB-1A2	D-39
				2JB-2A2	D-39
				2JB-3A2	D-39
				2JF-1A2	D-38
				2JF-2A2	D-38
				2JF-3A2	D-38
				2L (Linear Heads)	
				2LB10N-1	D-22
				2LB10N-2	D-22
				2LB10N-3	D-22
				2LB10N-4	D-22
				2LB10N-5	D-22
				2LB25N-1	D-22
				2RK (Reversible Motors)	
				2RK6A-AWMU	A-132
				2RK6A-AWTU	A-74
				2RK6A-AWU	A-74
				2RK6A-CWE	A-74
				2RK6A-CWME	A-132
				2RK6A-CWTE	A-74
				2RK6GN-AWMU	A-132
				2RK6GN-AWTU	A-74
				2RK6GN-AWU	A-74
				2RK6GN-CWE	A-74
				2RK6GN-CWME	A-132
				2RK6GN-CWTE	A-74
				2RK6RA-AWU	B-88
				2RK6RA-CWE	B-88
				2RK6RGN-AWU	B-88
				2RK6RGN-CWE	B-88
				2SK (Synchronous Motors)	
				2SK4A-AULA	A-105
				2SK4GN-AUL	A-105
				3	
				3GN (Gearheads)	
				3GN100KA	A-24
				3GN10XK	A-24
				3GN12.5KA	A-24
				3GN120KA	A-24
				3GN150KA	A-24
2					
2GN (Gearheads)					
2GN100KA	A-20				

Product Index

• Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page
3GN15KA	A-24
3GN180KA	A-24
3GN18KA	A-24
3GN25KA	A-24
3GN3.6KA	A-24
3GN30KA	A-24
3GN36KA	A-24
3GN3KA	A-24
3GN50KA	A-24
3GN5KA	A-24
3GN60KA	A-24
3GN6KA	A-24
3GN7.5KA	A-24
3GN75KA	A-24
3GN90KA	A-24
3GN9KA	A-24

3IK (Induction Motors)

3IK15A-AWU	A-24
3IK15A-CWE	A-24
3IK15GN-AWU	A-24
3IK15GN-CWE	A-24
3IK15RA-AWU	B-88
3IK15RA-CWE	B-88
3IK15RGN-AWU	B-88
3IK15RGN-CWE	B-88

3RK (Reversible Motors)

3RK15A-AWMU	A-137
3RK15A-AWU	A-78
3RK15A-CWE	A-78
3RK15A-CWME	A-137
3RK15GN-AWMU	A-137
3RK15GN-AWU	A-78
3RK15GN-CWE	A-78
3RK15GN-CWME	A-137
3RK15RA-AWU	B-88
3RK15RA-CWE	B-88
3RK15RGN-AWU	B-88
3RK15RGN-CWE	B-88

3SK (Synchronous Motors)

3SK10A-AULA	A-105
3SK10GN-AUL	A-105

3TK (Torque Motors)

3TK6A-AULA	A-114
3TK6GN-AUL	A-114

4

4GN (Gearheads)

4GN100KA	A-28
4GN10XK	A-28
4GN12.5KA	A-28
4GN120KA	A-28
4GN120RAA	A-190
4GN120RH	A-190
4GN150KA	A-28
4GN15KA	A-28
4GN15RAA	A-190
4GN15RH	A-190
4GN180KA	A-28
4GN180RAA	A-190
4GN180RH	A-190
4GN18KA	A-28
4GN18RAA	A-190
4GN18RH	A-190
4GN25KA	A-28
4GN3.6KA	A-28
4GN3.6RAA	A-190
4GN3.6RH	A-190
4GN30KA	A-28
4GN30RAA	A-190
4GN30RH	A-190
4GN36KA	A-28
4GN36RAA	A-190
4GN36RH	A-190
4GN3KA	A-28
4GN50KA	A-28
4GN5KA	A-28
4GN60KA	A-28
4GN60RAA	A-190
4GN60RH	A-190
4GN6KA	A-28
4GN6RAA	A-190
4GN6RH	A-190
4GN7.5KA	A-28
4GN75KA	A-28
4GN90KA	A-28
4GN90RAA	A-190
4GN90RH	A-190
4GN9KA	A-28
4GN9RAA	A-190
4GN9RH	A-190

4IK (Induction Motors)

4IK25AA-ECH	A-28
4IK25AA-FCH	A-28
4IK25AA-SH	A-28
4IK25A-AWTU	A-28
4IK25A-AWU	A-28
4IK25A-CWE	A-28
4IK25A-CWTE	A-28
4IK25A-SW	A-28
4IK25A-SWM	A-142
4IK25A-SWT	A-28
4IK25GN-AWTU	A-28
4IK25GN-AWU	A-28

Model	Page
4IK25GN-CWE	A-28
4IK25GN-CWTE	A-28
4IK25GN-ECH	A-28
4IK25GN-FCH	A-28
4IK25GN-SH	A-28
4IK25GN-SW	A-28
4IK25GN-SWM	A-142
4IK25GN-SWT	A-28
4IK25RA-AWU	B-88
4IK25RA-CWE	B-88
4IK25RGN-AWU	B-88
4IK25RGN-CWE	B-88
4IK40A-BA	A-65

4J (Accessories)

4J-1A2	D-40
4J-2A2	D-40
4J-3A2	D-40
4J-4A2	D-40
4J-5A2	D-40
4JB-1A2	D-39
4JB-2A2	D-39
4JB-3A2	D-39
4JB-4A2	D-39
4JB-5A2	D-39
4JF-1A2	D-38
4JF-2A2	D-38
4JF-3A2	D-38
4JF-4A2	D-38
4JF-5A2	D-38

4L (Linear Heads)

4LB10N-1	D-26
4LB10N-2	D-26
4LB10N-3	D-26
4LB10N-4	D-26
4LB10N-5	D-26
4LB10N-6	D-26
4LB10N-7	D-26
4LB20N-1	D-26
4LB20N-2	D-26
4LB20N-3	D-26
4LB20N-4	D-26
4LB20N-5	D-26
4LB20N-6	D-26
4LB20N-7	D-26
4LB45N-1	D-26
4LB45N-2	D-26
4LB45N-3	D-26
4LB45N-4	D-26
4LB45N-5	D-26
4LB45N-6	D-26
4LB45N-7	D-26
4LF10N-1	D-26
4LF10N-2	D-26
4LF10N-3	D-26
4LF10N-4	D-26
4LF10N-5	D-26
4LF10N-6	D-26
4LF10N-7	D-26
4LF20N-1	D-26

Model	Page
4LF20N-2	D-26
4LF20N-3	D-26
4LF20N-4	D-26
4LF20N-5	D-26
4LF20N-6	D-26
4LF20N-7	D-26
4LF45N-1	D-26
4LF45N-2	D-26
4LF45N-3	D-26
4LF45N-4	D-26
4LF45N-5	D-26
4LF45N-6	D-26
4LF45N-7	D-26

4RK (Reversible Motors)

4RK25A-AWMU	A-142
4RK25A-AWTU	A-82
4RK25A-AWU	A-82
4RK25A-CWE	A-82
4RK25A-CWME	A-142
4RK25A-CWTE	A-82
4RK25GN-AWMU	A-142
4RK25GN-AWTU	A-82
4RK25GN-AWU	A-82
4RK25GN-CWE	A-82
4RK25GN-CWME	A-142
4RK25GN-CWTE	A-82
4RK25RA-AWU	B-88
4RK25RA-CWE	B-88
4RK25RGN-AWU	B-88
4RK25RGN-CWE	B-88

4SK (Synchronous Motors)

4SK15A-AULA	A-105
4SK15GN-AUL	A-105

4TK (Torque Motors)

4TK10A-AULA	A-114
4TK10GN-AUL	A-114

5

5G □ (Gearheads)

5GC120KA	A-174
5GC15KA	A-174
5GC180KA	A-174
5GC18KA	A-174
5GC3.6KA	A-174
5GC30KA	A-174
5GC36KA	A-174
5GC60KA	A-174
5GC6KA	A-174
5GC90KA	A-174

5GC9KA	A-174
5GCH120KA	A-174
5GCH15KA	A-174
5GCH180KA	A-174
5GCH18KA	A-174
5GCH3.6KA	A-174
5GCH30KA	A-174
5GCH36KA	A-174
5GCH60KA	A-174
5GCH6KA	A-174
5GCH90KA	A-174
5GCH9KA	A-174
5GN100KA	A-34
5GN100RAA	A-190
5GN10XK	A-34
5GN12.5KA	A-34
5GN12.5RAA	A-190
5GN120KA	A-34
5GN120RAA	A-190
5GN120RH	A-190
5GN150KA	A-34
5GN150RAA	A-190
5GN15KA	A-34
5GN15RAA	A-190
5GN15RH	A-190
5GN180KA	A-34
5GN180RAA	A-190
5GN180RH	A-190
5GN18KA	A-34
5GN18RAA	A-190
5GN18RH	A-190
5GN25KA	A-34
5GN25RAA	A-190
5GN3.6KA	A-34
5GN3.6RAA	A-190
5GN3.6RH	A-190
5GN30KA	A-34
5GN30RAA	A-190
5GN30RH	A-190
5GN36KA	A-34
5GN36RAA	A-190
5GN36RH	A-190
5GN3KA	A-34
5GN3RAA	A-190
5GN50KA	A-34
5GN50RAA	A-190
5GN5KA	A-34
5GN5RAA	A-190
5GN60KA	A-34
5GN60RAA	A-190
5GN60RH	A-190
5GN6KA	A-34
5GN6RAA	A-190
5GN6RH	A-190
5GN7.5KA	A-34
5GN7.5RAA	A-190
5GN75KA	A-34
5GN75RAA	A-190
5GN90KA	A-34
5GN90RAA	A-190
5GN90RH	A-190
5GN9KA	A-34
5GN9RAA	A-190
5GN9RH	A-190
5GU100KA	A-40

5GU100KHA	A-47
5GU100RAA	A-190
5GU10XK	A-47
5GU10XKB	A-40
5GU12.5KA	A-40
5GU12.5RAA	A-190
5GU120KA	A-40
5GU120KHA	A-47
5GU120RAA	A-190
5GU120RH	A-190
5GU150KA	A-40
5GU150KHA	A-47
5GU150RAA	A-190
5GU15KA	A-40
5GU15RAA	A-190
5GU15RH	A-190
5GU180KA	A-40
5GU180KHA	A-47
5GU180RAA	A-190
5GU180RH	A-190
5GU18KA	A-40
5GU18RAA	A-190
5GU18RH	A-190
5GU25KA	A-40
5GU25RAA	A-190
5GU3.6KA	A-40
5GU3.6RAA	A-190
5GU3.6RH	A-190
5GU30KA	A-40
5GU30RAA	A-190
5GU30RH	A-190
5GU36KA	A-40
5GU36RAA	A-190
5GU36RH	A-190
5GU3KA	A-40
5GU3RAA	A-190
5GU50KA	A-40
5GU50KHA	A-47
5GU50RAA	A-190
5GU5KA	A-40
5GU5RAA	A-190
5GU60KA	A-40
5GU60KHA	A-47
5GU60RAA	A-190
5GU60RH	A-190
5GU6KA	A-40
5GU6RAA	A-190
5GU6RH	A-190
5GU7.5KA	A-40
5GU7.5RAA	A-190
5GU75KA	A-40
5GU75KHA	A-47
5GU75RAA	A-190
5GU90KA	A-40
5GU90KHA	A-47
5GU90RAA	A-190
5GU90RH	A-190
5GU9KA	A-40
5GU9RAA	A-190
5GU9RH	A-190

5IK (Induction Motors)

5IK40AA-ECH	A-34
-------------	------

Model Page

6

6GH (Gearheads)

6GH100K	B-33
6GH10K	B-33
6GH15K	B-33
6GH200K	B-33
6GH20K	B-33
6GH30K	B-33
6GH50K	B-33
6GH5K	B-33

A

AM1 (Thermostats)

AM1-WA1	E-98
AM1-XA1	E-98

AS (α_{STEP})

AS46AA	C-18
AS46AA2-H100	C-19
AS46AA2-H50	C-19
AS46AA-N10	C-19
AS46AA-N7.2	C-19
AS46AAP	C-19
AS46AAP2-H100	C-20
AS46AAP2-H50	C-20
AS46AAP-N10	C-20
AS46AAP-N7.2	C-20
AS46AAP-T10	C-20
AS46AAP-T20	C-20
AS46AAP-T3.6	C-20
AS46AAP-T30	C-20
AS46AAP-T7.2	C-20
AS46AA-T10	C-18
AS46AA-T20	C-18
AS46AA-T3.6	C-18
AS46AA-T30	C-18
AS46AA-T7.2	C-18
AS46MA	C-18
AS46MA2-H100	C-19
AS46MA2-H50	C-19
AS46MA-N10	C-19
AS46MA-N7.2	C-19
AS46MAP	C-19
AS46MAP2-H100	C-20
AS46MAP2-H50	C-20
AS46MAP-N10	C-20
AS46MAP-N7.2	C-20
AS46MAP-T10	C-20
AS46MAP-T20	C-20
AS46MAP-T3.6	C-20
AS46MAP-T30	C-20
AS46MAP-T7.2	C-20

Model Page

AS46MA-T10	C-18
AS46MA-T20	C-18
AS46MA-T3.6	C-18
AS46MA-T30	C-18
AS46MA-T7.2	C-18
AS66AA	C-18
AS66AA2-H100	C-19
AS66AA2-H50	C-19
AS66AA-N10	C-19
AS66AA-N25	C-19
AS66AA-N36	C-19
AS66AA-N5	C-19
AS66AA-N50	C-19
AS66AA-N7.2	C-19
AS66AAP	C-19
AS66AAP2-H100	C-20
AS66AAP2-H50	C-20
AS66AAP-N10	C-20
AS66AAP-N25	C-20
AS66AAP-N36	C-20
AS66AAP-N5	C-20
AS66AAP-N50	C-20
AS66AAP-N7.2	C-20
AS66AAP-T10	C-20
AS66AAP-T20	C-20
AS66AAP-T3.6	C-20
AS66AAP-T30	C-20
AS66AAP-T7.2	C-20
AS66AA-T10	C-18
AS66AA-T20	C-18
AS66AA-T3.6	C-18
AS66AA-T30	C-18
AS66AA-T7.2	C-18
AS66AC	C-18
AS66AC2-H100	C-19
AS66AC2-H50	C-19
AS66AC-N10	C-19
AS66AC-N25	C-19
AS66AC-N36	C-19
AS66AC-N5	C-19
AS66AC-N50	C-19
AS66AC-N7.2	C-19
AS66ACP	C-19
AS66ACP2-H100	C-20
AS66ACP2-H50	C-20
AS66ACP-N10	C-20
AS66ACP-N25	C-20
AS66ACP-N36	C-20
AS66ACP-N5	C-20
AS66ACP-N50	C-20
AS66ACP-N7.2	C-20
AS66ACP-T10	C-20
AS66ACP-T20	C-20
AS66ACP-T3.6	C-20
AS66ACP-T30	C-20
AS66ACP-T7.2	C-20
AS66AC-T10	C-18
AS66AC-T20	C-18
AS66AC-T3.6	C-18
AS66AC-T30	C-18
AS66AC-T7.2	C-18
AS66AS	C-18
AS66AS2-H100	C-19
AS66AS2-H50	C-19
AS66AS-N10	C-19

Model Page

AS66AS-N25	C-19
AS66AS-N36	C-19
AS66AS-N5	C-19
AS66AS-N50	C-19
AS66AS-N7.2	C-19
AS66ASP	C-19
AS66ASP2-H100	C-20
AS66ASP2-H50	C-20
AS66ASP-N10	C-20
AS66ASP-N25	C-20
AS66ASP-N36	C-20
AS66ASP-N5	C-20
AS66ASP-N50	C-20
AS66ASP-N7.2	C-20
AS66ASP-T10	C-20
AS66ASP-T20	C-20
AS66ASP-T3.6	C-20
AS66ASP-T30	C-20
AS66ASP-T7.2	C-20
AS66AS-T10	C-18
AS66AS-T20	C-18
AS66AS-T3.6	C-18
AS66AS-T30	C-18
AS66AS-T7.2	C-18
AS66MA	C-18
AS66MA2-H100	C-19
AS66MA2-H50	C-19
AS66MA-N10	C-19
AS66MA-N25	C-19
AS66MA-N36	C-19
AS66MA-N5	C-19
AS66MA-N50	C-19
AS66MA-N7.2	C-19
AS66MAP	C-19
AS66MAP2-H100	C-20
AS66MAP2-H50	C-20
AS66MAP-N10	C-20
AS66MAP-N25	C-20
AS66MAP-N36	C-20
AS66MAP-N5	C-20
AS66MAP-N50	C-20
AS66MAP-N7.2	C-20
AS66MAP-T10	C-20
AS66MAP-T20	C-20
AS66MAP-T3.6	C-20
AS66MAP-T30	C-20
AS66MAP-T7.2	C-20
AS66MA-T10	C-18
AS66MA-T20	C-18
AS66MA-T3.6	C-18
AS66MA-T30	C-18
AS66MA-T7.2	C-18
AS66MC	C-18
AS66MC2-H100	C-19
AS66MC2-H50	C-19
AS66MC-N10	C-19
AS66MC-N25	C-19
AS66MC-N36	C-19
AS66MC-N5	C-19
AS66MC-N50	C-19
AS66MC-N7.2	C-19
AS66MCP	C-19
AS66MCP2-H100	C-20
AS66MCP2-H50	C-20
AS66MCP-N10	C-20

Safety Standards

List of Safety Standard Approved Products

ISO 9000/1 ISO 14001

Global Power Supply Voltages

Product Line Updates

Product Index

Oriental Motor Corporate Overview

Oriental Motor Global Sales Network

Product Recommendation Information Sheet

Conversion Charts

Product Index

• Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page	Model	Page	Model	Page
AS66MCP-N25	C-20	AS98AA-N25	C-19	AS98ASP-N25	C-20
AS66MCP-N36	C-20	AS98AA-N36	C-19	AS98ASP-N36	C-20
AS66MCP-N5	C-20	AS98AA-N5	C-19	AS98ASP-N5	C-20
AS66MCP-N50	C-20	AS98AA-N50	C-19	AS98ASP-N50	C-20
AS66MCP-N7.2	C-20	AS98AA-N7.2	C-19	AS98ASP-N7.2	C-20
AS66MCP-T10	C-20	AS98AAP	C-19	AS98ASP-T10	C-20
AS66MCP-T20	C-20	AS98AAP-H100	C-20	AS98ASP-T20	C-20
AS66MCP-T3.6	C-20	AS98AAP-H50	C-20	AS98ASP-T3.6	C-20
AS66MCP-T30	C-20	AS98AAP-N10	C-20	AS98ASP-T30	C-20
AS66MCP-T7.2	C-20	AS98AAP-N25	C-20	AS98ASP-T7.2	C-20
AS66MC-T10	C-18	AS98AAP-N36	C-20	AS98AS-T10	C-18
AS66MC-T20	C-18	AS98AAP-N5	C-20	AS98AS-T20	C-18
AS66MC-T3.6	C-18	AS98AAP-N50	C-20	AS98AS-T3.6	C-18
AS66MC-T30	C-18	AS98AAP-N7.2	C-20	AS98AS-T30	C-18
AS66MC-T7.2	C-18	AS98AAP-T10	C-20	AS98AS-T7.2	C-18
AS66MS	C-18	AS98AAP-T20	C-20	AS98MA	C-18
AS66MS2-H100	C-19	AS98AAP-T3.6	C-20	AS98MA-H100	C-19
AS66MS2-H50	C-19	AS98AAP-T30	C-20	AS98MA-H50	C-19
AS66MS-N10	C-19	AS98AAP-T7.2	C-20	AS98MA-N10	C-19
AS66MS-N25	C-19	AS98AA-T10	C-18	AS98MA-N25	C-19
AS66MS-N36	C-19	AS98AA-T20	C-18	AS98MA-N36	C-19
AS66MS-N5	C-19	AS98AA-T3.6	C-18	AS98MA-N5	C-19
AS66MS-N50	C-19	AS98AA-T30	C-18	AS98MA-N50	C-19
AS66MS-N7.2	C-19	AS98AA-T7.2	C-18	AS98MA-N7.2	C-19
AS66MSP	C-19	AS98AC	C-18	AS98MAP	C-19
AS66MSP2-H100	C-20	AS98AC-H100	C-19	AS98MAP-H100	C-20
AS66MSP2-H50	C-20	AS98AC-H50	C-19	AS98MAP-H50	C-20
AS66MSP-N10	C-20	AS98AC-N10	C-19	AS98MAP-N10	C-20
AS66MSP-N25	C-20	AS98AC-N25	C-19	AS98MAP-N25	C-20
AS66MSP-N36	C-20	AS98AC-N36	C-19	AS98MAP-N36	C-20
AS66MSP-N5	C-20	AS98AC-N5	C-19	AS98MAP-N5	C-20
AS66MSP-N50	C-20	AS98AC-N50	C-19	AS98MAP-N50	C-20
AS66MSP-N7.2	C-20	AS98AC-N7.2	C-19	AS98MAP-N7.2	C-20
AS66MSP-T10	C-20	AS98ACP	C-19	AS98MAP-T10	C-20
AS66MSP-T20	C-20	AS98ACP-H100	C-20	AS98MAP-T20	C-20
AS66MSP-T3.6	C-20	AS98ACP-H50	C-20	AS98MAP-T3.6	C-20
AS66MSP-T30	C-20	AS98ACP-N10	C-20	AS98MAP-T30	C-20
AS66MSP-T7.2	C-20	AS98ACP-N25	C-20	AS98MAP-T7.2	C-20
AS66MS-T10	C-18	AS98ACP-N36	C-20	AS98MA-T10	C-18
AS66MS-T20	C-18	AS98ACP-N5	C-20	AS98MA-T20	C-18
AS66MS-T3.6	C-18	AS98ACP-N50	C-20	AS98MA-T3.6	C-18
AS66MS-T30	C-18	AS98ACP-N7.2	C-20	AS98MA-T30	C-18
AS66MS-T7.2	C-18	AS98ACP-T10	C-20	AS98MA-T7.2	C-18
AS69AA	C-18	AS98ACP-T20	C-20	AS98MC	C-18
AS69AAP	C-19	AS98ACP-T3.6	C-20	AS98MC-H100	C-19
AS69AC	C-18	AS98ACP-T30	C-20	AS98MC-H50	C-19
AS69ACP	C-19	AS98ACP-T7.2	C-20	AS98MC-N10	C-19
AS69AS	C-18	AS98AC-T10	C-18	AS98MC-N25	C-19
AS69ASP	C-19	AS98AC-T20	C-18	AS98MC-N36	C-19
AS69MA	C-18	AS98AC-T3.6	C-18	AS98MC-N5	C-19
AS69MAP	C-19	AS98AC-T30	C-18	AS98MC-N50	C-19
AS69MC	C-18	AS98AC-T7.2	C-18	AS98MC-N7.2	C-19
AS69MCP	C-19	AS98AS	C-18	AS98MCP	C-19
AS69MS	C-18	AS98AS-H100	C-19	AS98MCP-H100	C-20
AS69MSP	C-19	AS98AS-H50	C-19	AS98MCP-H50	C-20
AS911AA	C-18	AS98AS-N10	C-19	AS98MCP-N10	C-20
AS911AAP	C-19	AS98AS-N25	C-19	AS98MCP-N25	C-20
AS911AC	C-18	AS98AS-N36	C-19	AS98MCP-N36	C-20
AS911ACP	C-19	AS98AS-N5	C-19	AS98MCP-N5	C-20
AS911AS	C-18	AS98AS-N50	C-19	AS98MCP-N50	C-20
AS911ASP	C-19	AS98AS-N7.2	C-19	AS98MCP-N7.2	C-20
AS98AA	C-18	AS98ASP	C-19	AS98MCP-T10	C-20
AS98AA-H100	C-19	AS98ASP-H100	C-20	AS98MCP-T20	C-20
AS98AA-H50	C-19	AS98ASP-H50	C-20	AS98MCP-T3.6	C-20
AS98AA-N10	C-19	AS98ASP-N10	C-20	AS98MCP-T30	C-20

Model	Page
AS98MCP-T7.2	C-20
AS98MC-T10	C-18
AS98MC-T20	C-18
AS98MC-T3.6	C-18
AS98MC-T30	C-18
AS98MC-T7.2	C-18
AS98MS	C-18
AS98MS-H100	C-19
AS98MS-H50	C-19
AS98MS-N10	C-19
AS98MS-N25	C-19
AS98MS-N36	C-19
AS98MS-N5	C-19
AS98MS-N50	C-19
AS98MS-N7.2	C-19
AS98MSP	C-19
AS98MSP-H100	C-20
AS98MSP-H50	C-20
AS98MSP-N10	C-20
AS98MSP-N25	C-20
AS98MSP-N36	C-20
AS98MSP-N5	C-20
AS98MSP-N50	C-20
AS98MSP-N7.2	C-20
AS98MSP-T10	C-20
AS98MSP-T20	C-20
AS98MSP-T3.6	C-20
AS98MSP-T7.2	C-20
AS98MS-T10	C-18
AS98MS-T20	C-18
AS98MS-T3.6	C-18
AS98MS-T30	C-18
AS98MS-T7.2	C-18

ASC (α STEP)

ASC34AK	C-59
ASC34AK-H100	C-64
ASC34AK-H50	C-64
ASC36AK	C-59
ASC46AK	C-59
ASC46AK-H100	C-64
ASC46AK-H50	C-64
ASC46AK-N10	C-62
ASC46AK-N7.2	C-62
ASC46AK-T10	C-60
ASC46AK-T20	C-60
ASC46AK-T3.6	C-60
ASC46AK-T30	C-60
ASC46AK-T7.2	C-60
ASC46MK	C-59
ASC46MK-H100	C-64
ASC46MK-H50	C-64
ASC46MK-N10	C-62
ASC46MK-N7.2	C-62
ASC46MK-T10	C-60
ASC46MK-T20	C-60
ASC46MK-T3.6	C-60
ASC46MK-T30	C-60
ASC46MK-T7.2	C-60
ASC66AK	C-59
ASC66AK-H100	C-65
ASC66AK-H50	C-65

Model	Page
ASC66AK-N10	C-63
ASC66AK-N25	C-63
ASC66AK-N36	C-63
ASC66AK-N5	C-63
ASC66AK-N50	C-63
ASC66AK-N7.2	C-63
ASC66AK-T10	C-61
ASC66AK-T20	C-61
ASC66AK-T3.6	C-61
ASC66AK-T30	C-61
ASC66AK-T7.2	C-61
ASC66MK	C-59
ASC66MK-H100	C-65
ASC66MK-H50	C-65
ASC66MK-N10	C-63
ASC66MK-N25	C-63
ASC66MK-N36	C-63
ASC66MK-N5	C-63
ASC66MK-N50	C-63
ASC66MK-N7.2	C-63
ASC66MK-T10	C-61
ASC66MK-T20	C-61
ASC66MK-T3.6	C-61
ASC66MK-T30	C-61
ASC66MK-T7.2	C-61

ASD (α STEP Drivers)

ASD10A-K	C-76
ASD10B-K	C-76
ASD10C-K	C-76
ASD12A-C	C-53
ASD12A-S	C-54
ASD12A-SP	C-54
ASD12A-CP	C-53
ASD12B-C	C-54
ASD12B-CP	C-54
ASD12B-S	C-54
ASD12B-SP	C-54
ASD12C-C	C-54
ASD12C-CP	C-54
ASD12C-S	C-54
ASD12C-SP	C-54
ASD13A-A	C-53
ASD13A-AP	C-53
ASD13B-A	C-53
ASD13B-AP	C-53
ASD13C-A	C-53
ASD13C-AP	C-53
ASD16A-C	C-53
ASD16A-CP	C-53
ASD16A-S	C-54
ASD16A-SP	C-54
ASD16B-C	C-54
ASD16B-CP	C-54
ASD16B-S	C-54
ASD16B-SP	C-54
ASD16C-C	C-54
ASD16C-CP	C-54
ASD16C-S	C-54
ASD16C-SP	C-54
ASD16D-C	C-53
ASD16D-CP	C-53
ASD16D-S	C-54

Model	Page
ASD16D-SP	C-54
ASD18A-K	C-76
ASD18B-K	C-76
ASD20A-C	C-53
ASD20A-CP	C-53
ASD20A-S	C-54
ASD20A-SP	C-54
ASD24A-A	C-53
ASD24A-AP	C-53
ASD24B-A	C-53
ASD24B-AP	C-53
ASD24C-A	C-53
ASD24C-AP	C-53
ASD30A-A	C-53
ASD30A-AP	C-53
ASD30B-A	C-53
ASD30B-AP	C-53
ASD30C-A	C-53
ASD30C-AP	C-53
ASD30D-A	C-53
ASD30D-AP	C-53
ASD30E-A	C-53
ASD30E-AP	C-53
ASD36A-K	C-76
ASD36B-K	C-76

ASM (α STEP Motors)

ASM34AK	C-76
ASM34AK-H100	C-76
ASM34AK-H50	C-76
ASM36AK	C-76
ASM46AA	C-53
ASM46AA2-H100	C-53
ASM46AA2-H50	C-53
ASM46AA-N10	C-53
ASM46AA-N7.2	C-53
ASM46AA-T10	C-53
ASM46AA-T20	C-53
ASM46AA-T3.6	C-53
ASM46AA-T30	C-53
ASM46AA-T7.2	C-53
ASM46AK	C-76
ASM46AK-H100	C-76
ASM46AK-H50	C-76
ASM46AK-N10	C-76
ASM46AK-N7.2	C-76
ASM46AK-T10	C-76
ASM46AK-T20	C-76
ASM46AK-T3.6	C-76
ASM46AK-T30	C-76
ASM46AK-T7.2	C-76
ASM46MA	C-53
ASM46MA2-H100	C-53
ASM46MA2-H50	C-53
ASM46MA-N10	C-53
ASM46MA-N7.2	C-53
ASM46MA-T10	C-53
ASM46MA-T20	C-53
ASM46MA-T3.6	C-53
ASM46MA-T30	C-53
ASM46MA-T7.2	C-53
ASM46MK	C-76
ASM46MK-H100	C-76

Product Index

● Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page	Model	Page	Model	Page
ASM46MK-H50	C-76	ASM66MC2-H100	C-54	ASM98MA-N5	C-53
ASM46MK-N10	C-76	ASM66MC2-H50	C-54	ASM98MA-N50	C-53
ASM46MK-N7.2	C-76	ASM66MC-N10	C-54	ASM98MA-N7.2	C-53
ASM46MK-T10	C-76	ASM66MC-N25	C-54	ASM98MA-T10	C-53
ASM46MK-T20	C-76	ASM66MC-N36	C-54	ASM98MA-T20	C-53
ASM46MK-T3.6	C-76	ASM66MC-N5	C-54	ASM98MA-T3.6	C-53
ASM46MK-T30	C-76	ASM66MC-N50	C-54	ASM98MA-T30	C-53
ASM46MK-T7.2	C-76	ASM66MC-N7.2	C-54	ASM98MA-T7.2	C-53
ASM66AA	C-53	ASM66MC-T10	C-54	ASM98MC	C-53
ASM66AA2-H100	C-53	ASM66MC-T20	C-54	ASM98MC-H100	C-54
ASM66AA2-H50	C-53	ASM66MC-T3.6	C-54	ASM98MC-H50	C-54
ASM66AA-N10	C-53	ASM66MC-T30	C-54	ASM98MC-N10	C-54
ASM66AA-N25	C-53	ASM66MC-T7.2	C-54	ASM98MC-N25	C-54
ASM66AA-N36	C-53	ASM66MK	C-76	ASM98MC-N36	C-54
ASM66AA-N5	C-53	ASM66MK-H100	C-76	ASM98MC-N5	C-54
ASM66AA-N50	C-53	ASM66MK-H50	C-76	ASM98MC-N50	C-54
ASM66AA-N7.2	C-53	ASM66MK-N10	C-76	ASM98MC-N7.2	C-54
ASM66AA-T10	C-53	ASM66MK-N25	C-76	ASM98MC-T10	C-54
ASM66AA-T20	C-53	ASM66MK-N36	C-76	ASM98MC-T20	C-54
ASM66AA-T3.6	C-53	ASM66MK-N5	C-76	ASM98MC-T3.6	C-54
ASM66AA-T30	C-53	ASM66MK-N50	C-76	ASM98MC-T30	C-54
ASM66AA-T7.2	C-53	ASM66MK-N7.2	C-76	ASM98MC-T7.2	C-54
ASM66AC	C-53	ASM66MK-T10	C-76	ASM911AA	C-53
ASM66AC2-H100	C-54	ASM66MK-T20	C-76	ASM911AC	C-53
ASM66AC2-H50	C-54	ASM66MK-T3.6	C-76		
ASM66AC-N10	C-54	ASM66MK-T30	C-76		
ASM66AC-N25	C-54	ASM66MK-T7.2	C-76		
ASM66AC-N36	C-54	ASM69AA	C-53		
ASM66AC-N5	C-54	ASM69AC	C-53		
ASM66AC-N50	C-54	ASM69MA	C-53		
ASM66AC-N7.2	C-54	ASM69MC	C-53		
ASM66AC-T10	C-54	ASM98AA	C-53		
ASM66AC-T20	C-54	ASM98AA-H100	C-53		
ASM66AC-T3.6	C-54	ASM98AA-H50	C-53		
ASM66AC-T30	C-54	ASM98AA-N10	C-53		
ASM66AC-T7.2	C-54	ASM98AA-N25	C-53		
ASM66AK	C-76	ASM98AA-N36	C-53		
ASM66AK-H100	C-76	ASM98AA-N5	C-53		
ASM66AK-H50	C-76	ASM98AA-N50	C-53		
ASM66AK-N10	C-76	ASM98AA-N7.2	C-53		
ASM66AK-N25	C-76	ASM98AA-T10	C-53		
ASM66AK-N36	C-76	ASM98AA-T20	C-53		
ASM66AK-N5	C-76	ASM98AA-T3.6	C-53		
ASM66AK-N50	C-76	ASM98AA-T30	C-53		
ASM66AK-N7.2	C-76	ASM98AA-T7.2	C-53		
ASM66AK-T10	C-76	ASM98AC	C-53		
ASM66AK-T20	C-76	ASM98AC-H100	C-54		
ASM66AK-T3.6	C-76	ASM98AC-H50	C-54		
ASM66AK-T30	C-76	ASM98AC-N10	C-54		
ASM66AK-T7.2	C-76	ASM98AC-N25	C-54		
ASM66MA	C-53	ASM98AC-N36	C-54		
ASM66MA2-H100	C-53	ASM98AC-N5	C-54		
ASM66MA2-H50	C-53	ASM98AC-N50	C-54		
ASM66MA-N10	C-53	ASM98AC-N7.2	C-54		
ASM66MA-N25	C-53	ASM98AC-T10	C-54		
ASM66MA-N36	C-53	ASM98AC-T20	C-54		
ASM66MA-N5	C-53	ASM98AC-T3.6	C-54		
ASM66MA-N50	C-53	ASM98AC-T30	C-54		
ASM66MA-N7.2	C-53	ASM98AC-T7.2	C-54		
ASM66MA-T10	C-53	ASM98MA	C-53		
ASM66MA-T20	C-53	ASM98MA-H100	C-53		
ASM66MA-T3.6	C-53	ASM98MA-H50	C-53		
ASM66MA-T30	C-53	ASM98MA-N10	C-53		
ASM66MA-T7.2	C-53	ASM98MA-N25	C-53		
ASM66MC	C-53	ASM98MA-N36	C-53		

AXH (AXH Series)

AXH015K-10	B-59
AXH015K-100	B-59
AXH015K-15	B-59
AXH015K-20	B-59
AXH015K-30	B-59
AXH015K-5	B-59
AXH015K-50	B-59
AXH015K-A	B-59
AXH230KC-10	B-59
AXH230KC-100	B-59
AXH230KC-15	B-59
AXH230KC-20	B-59
AXH230KC-200	B-59
AXH230KC-30	B-59
AXH230KC-5	B-59
AXH230KC-50	B-59
AXH230KC-A	B-59
AXH450KC-10	B-59
AXH450KC-100	B-59
AXH450KC-15	B-59
AXH450KC-20	B-59
AXH450KC-200	B-59
AXH450KC-30	B-59
AXH450KC-5	B-59
AXH450KC-50	B-59
AXH450KC-A	B-59
AXH5100KC-10	B-59
AXH5100KC-100	B-59
AXH5100KC-15	B-59
AXH5100KC-20	B-59
AXH5100KC-200	B-59
AXH5100KC-30	B-59
AXH5100KC-5	B-59
AXH5100KC-50	B-59
AXH5100KC-A	B-59
AXHD100K	B-65
AXHD15K	B-65

Model	Page
AXHD30K	B-65
AXHD50K	B-65
AXHM015K-10	B-65
AXHM015K-100	B-65
AXHM015K-15	B-65
AXHM015K-20	B-65
AXHM015K-30	B-65
AXHM015K-5	B-65
AXHM015K-50	B-65
AXHM015K-A	B-65
AXHM230KC-A	B-65
AXHM230KC-GFH	B-65
AXHM450KC-A	B-65
AXHM450KC-GFH	B-65
AXHM5100KC-A	B-65
AXHM5100KC-GFH	B-65

AXU (AXU Series)

AXU210A-A	B-47
AXU210A-GN	B-47
AXU210C-A	B-47
AXU210C-GN	B-47
AXU210S-A	B-47
AXU210S-GN	B-47
AXU425A-A	B-47
AXU425A-GN	B-47
AXU425C-A	B-47
AXU425C-GN	B-47
AXU425S-A	B-47
AXU425S-GN	B-47
AXU540A-A	B-47
AXU540A-GN	B-47
AXU540C-A	B-47
AXU540C-GN	B-47
AXU540S-A	B-47
AXU540S-GN	B-47
AXU590A-A	B-47
AXU590A-GU	B-47
AXU590C-A	B-47
AXU590C-GU	B-47
AXU590S-A	B-47
AXU590S-GU	B-47
AXUD10A	B-57
AXUD10C	B-57
AXUD10S	B-57
AXUD25A	B-57
AXUD25C	B-57
AXUD25S	B-57
AXUD40A	B-57
AXUD40C	B-57
AXUD40S	B-57
AXUD90A	B-57
AXUD90C	B-57
AXUD90S	B-57
AXUM210-A	B-57
AXUM210-GN	B-57
AXUM425-A	B-57
AXUM425-GN	B-57
AXUM540-A	B-57
AXUM540-GN	B-57
AXUM590-A	B-57
AXUM590-GU	B-57

B

BHF (BHF Series)

BHF62AMT-100	B-72
BHF62AMT-100RA	B-72
BHF62AMT-100RH	B-72
BHF62AMT-15	B-72
BHF62AMT-15RA	B-72
BHF62AMT-15RH	B-72
BHF62AMT-180	B-72
BHF62AMT-180RA	B-72
BHF62AMT-180RH	B-72
BHF62AMT-3	B-72
BHF62AMT-30	B-72
BHF62AMT-30RA	B-72
BHF62AMT-30RH	B-72
BHF62AMT-5	B-72
BHF62AMT-50	B-72
BHF62AMT-50RA	B-72
BHF62AMT-50RH	B-72
BHF62AMT-5RA	B-72
BHF62AMT-5RH	B-72
BHF62AMT-9	B-72
BHF62AMT-9RA	B-72
BHF62AMT-9RH	B-72
BHF62AMT-A	B-72
BHF62AT-100	B-72
BHF62AT-100RA	B-72
BHF62AT-100RH	B-72
BHF62AT-15	B-72
BHF62AT-15RA	B-72
BHF62AT-15RH	B-72
BHF62AT-180	B-72
BHF62AT-180RA	B-72
BHF62AT-180RH	B-72
BHF62AT-3	B-72
BHF62AT-30	B-72
BHF62AT-30RA	B-72
BHF62AT-30RH	B-72
BHF62AT-5	B-72
BHF62AT-50	B-72
BHF62AT-50RA	B-72
BHF62AT-50RH	B-72
BHF62AT-5RA	B-72
BHF62AT-5RH	B-72
BHF62AT-9	B-72
BHF62AT-9RA	B-72
BHF62AT-9RH	B-72
BHF62AT-A	B-72
BHF62CMT-100	B-72
BHF62CMT-100RA	B-72
BHF62CMT-100RH	B-72
BHF62CMT-15	B-72
BHF62CMT-15RA	B-72
BHF62CMT-15RH	B-72
BHF62CMT-180	B-72
BHF62CMT-180RA	B-72
BHF62CMT-180RH	B-72
BHF62CMT-3	B-72
BHF62CMT-30	B-72
BHF62CMT-30RA	B-72
BHF62CMT-30RH	B-72
BHF62CMT-5	B-72
BHF62CMT-50	B-72
BHF62CMT-50RA	B-72
BHF62CMT-50RH	B-72
BHF62CMT-5RA	B-72
BHF62CMT-5RH	B-72
BHF62CMT-9	B-72
BHF62CMT-9RA	B-72
BHF62CMT-9RH	B-72
BHF62CMT-A	B-72
BHF62SMT-100	B-72
BHF62SMT-100RA	B-72
BHF62SMT-100RH	B-72
BHF62SMT-15	B-72
BHF62SMT-15RA	B-72
BHF62SMT-15RH	B-72
BHF62SMT-180	B-72
BHF62SMT-180RA	B-72
BHF62SMT-180RH	B-72
BHF62SMT-3	B-72
BHF62SMT-30	B-72
BHF62SMT-30RA	B-72
BHF62SMT-30RH	B-72
BHF62SMT-5	B-72
BHF62SMT-50	B-72
BHF62SMT-50RA	B-72
BHF62SMT-50RH	B-72
BHF62SMT-5RA	B-72
BHF62SMT-5RH	B-72
BHF62SMT-9	B-72
BHF62SMT-9RA	B-72
BHF62SMT-9RH	B-72
BHF62SMT-A	B-72
BHF62ST-100	B-72
BHF62ST-100RA	B-72
BHF62ST-100RH	B-72
BHF62ST-15	B-72
BHF62ST-15RA	B-72
BHF62ST-15RH	B-72
BHF62ST-180	B-72
BHF62ST-180RA	B-72
BHF62ST-180RH	B-72

Model	Page
BHF62CMT-5	B-72
BHF62CMT-50	B-72
BHF62CMT-50RA	B-72
BHF62CMT-50RH	B-72
BHF62CMT-5RA	B-72
BHF62CMT-5RH	B-72
BHF62CMT-9	B-72
BHF62CMT-9RA	B-72
BHF62CMT-9RH	B-72
BHF62CMT-A	B-72
BHF62CT-100	B-72
BHF62CT-100RA	B-72
BHF62CT-100RH	B-72
BHF62CT-15	B-72
BHF62CT-15RA	B-72
BHF62CT-15RH	B-72
BHF62CT-180	B-72
BHF62CT-180RA	B-72
BHF62CT-180RH	B-72
BHF62CT-3	B-72
BHF62CT-30	B-72
BHF62CT-30RA	B-72
BHF62CT-30RH	B-72
BHF62CT-5	B-72
BHF62CT-50	B-72
BHF62CT-50RA	B-72
BHF62CT-50RH	B-72
BHF62CT-5RA	B-72
BHF62CT-5RH	B-72
BHF62CT-9	B-72
BHF62CT-9RA	B-72
BHF62CT-9RH	B-72
BHF62CT-A	B-72
BHF62SMT-100	B-72
BHF62SMT-100RA	B-72
BHF62SMT-100RH	B-72
BHF62SMT-15	B-72
BHF62SMT-15RA	B-72
BHF62SMT-15RH	B-72
BHF62SMT-180	B-72
BHF62SMT-180RA	B-72
BHF62SMT-180RH	B-72
BHF62SMT-3	B-72
BHF62SMT-30	B-72
BHF62SMT-30RA	B-72
BHF62SMT-30RH	B-72
BHF62SMT-5	B-72
BHF62SMT-50	B-72
BHF62SMT-50RA	B-72
BHF62SMT-50RH	B-72
BHF62SMT-5RA	B-72
BHF62SMT-5RH	B-72
BHF62SMT-9	B-72
BHF62SMT-9RA	B-72
BHF62SMT-9RH	B-72
BHF62SMT-A	B-72
BHF62ST-100	B-72
BHF62ST-100RA	B-72
BHF62ST-100RH	B-72
BHF62ST-15	B-72
BHF62ST-15RA	B-72
BHF62ST-15RH	B-72
BHF62ST-180	B-72
BHF62ST-180RA	B-72
BHF62ST-180RH	B-72

Safety Standards	List of Safety Standard Approved Products
ISO 9000/1/ISO 14001	Global Power Supply Voltages
Product Line Updates	Product Index
Oriental Motor Corporate Overview	Oriental Motor Global Sales Network
Product Recommendation Information Sheet	Conversion Charts

Product Index

• Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page	Model	Page	Model	Page
BHF62ST-3	B-72	BHI62E-180	A-54	BHI62ET-18	A-54
BHF62ST-30	B-72	BHI62E-180RA	A-54	BHI62ET-180	A-54
BHF62ST-30RA	B-72	BHI62E-180RH	A-54	BHI62ET-180RA	A-54
BHF62ST-30RH	B-72	BHI62E-18RA	A-54	BHI62ET-180RH	A-54
BHF62ST-5	B-72	BHI62E-18RH	A-54	BHI62ET-18RA	A-54
BHF62ST-50	B-72	BHI62E-3.6	A-54	BHI62ET-18RH	A-54
BHF62ST-50RA	B-72	BHI62E-30	A-54	BHI62ET-3.6	A-54
BHF62ST-50RH	B-72	BHI62E-30RA	A-54	BHI62ET-30	A-54
BHF62ST-5RA	B-72	BHI62E-30RH	A-54	BHI62ET-30RA	A-54
BHF62ST-5RH	B-72	BHI62E-36	A-54	BHI62ET-30RH	A-54
BHF62ST-9	B-72	BHI62E-36RA	A-54	BHI62ET-36	A-54
BHF62ST-9RA	B-72	BHI62E-36RH	A-54	BHI62ET-36RA	A-54
BHF62ST-9RH	B-72	BHI62E-6	A-54	BHI62ET-36RH	A-54
BHF62ST-A	B-72	BHI62E-60	A-54	BHI62ET-6	A-54
		BHI62E-60RA	A-54	BHI62ET-60	A-54
		BHI62E-60RH	A-54	BHI62ET-60RA	A-54
		BHI62E-6RA	A-54	BHI62ET-60RH	A-54
		BHI62E-6RH	A-54	BHI62ET-6RA	A-54
		BHI62E-9	A-54	BHI62ET-6RH	A-54
		BHI62E-90	A-54	BHI62ET-9	A-54
		BHI62E-90RA	A-54	BHI62ET-90	A-54
		BHI62E-90RH	A-54	BHI62ET-90RA	A-54
		BHI62E-9RA	A-54	BHI62ET-90RH	A-54
		BHI62E-9RH	A-54	BHI62ET-9RA	A-54
		BHI62E-A	A-55	BHI62ET-9RH	A-54
		BHI62E-G2	A-64	BHI62ET-A	A-55
		BHI62EMT-120	A-164	BHI62ET-G2	A-64
		BHI62EMT-120RA	A-164	BHI62F-120	A-54
		BHI62EMT-120RH	A-164	BHI62F-120RA	A-54
		BHI62EMT-15	A-164	BHI62F-120RH	A-54
		BHI62EMT-15RA	A-164	BHI62F-15	A-54
		BHI62EMT-15RH	A-164	BHI62F-15RA	A-54
		BHI62EMT-18	A-164	BHI62F-15RH	A-54
		BHI62EMT-180	A-164	BHI62F-18	A-54
		BHI62EMT-180RA	A-164	BHI62F-180	A-54
		BHI62EMT-180RH	A-164	BHI62F-180RA	A-54
		BHI62EMT-18RA	A-164	BHI62F-180RH	A-54
		BHI62EMT-18RH	A-164	BHI62F-18RA	A-54
		BHI62EMT-3.6	A-164	BHI62F-18RH	A-54
		BHI62EMT-30	A-164	BHI62F-3.6	A-54
		BHI62EMT-30RA	A-164	BHI62F-30	A-54
		BHI62EMT-30RH	A-164	BHI62F-30RA	A-54
		BHI62EMT-36	A-164	BHI62F-30RH	A-54
		BHI62EMT-36RA	A-164	BHI62F-36	A-54
		BHI62EMT-36RH	A-164	BHI62F-36RA	A-54
		BHI62EMT-6	A-164	BHI62F-36RH	A-54
		BHI62EMT-60	A-164	BHI62F-6	A-54
		BHI62EMT-60RA	A-164	BHI62F-60	A-54
		BHI62EMT-60RH	A-164	BHI62F-60RA	A-54
		BHI62EMT-6RA	A-164	BHI62F-60RH	A-54
		BHI62EMT-6RH	A-164	BHI62F-6RA	A-54
		BHI62EMT-9	A-164	BHI62F-6RH	A-54
		BHI62EMT-90	A-164	BHI62F-9	A-54
		BHI62EMT-90RA	A-164	BHI62F-90	A-54
		BHI62EMT-90RH	A-164	BHI62F-90RA	A-54
		BHI62EMT-9RA	A-164	BHI62F-90RH	A-54
		BHI62EMT-9RH	A-164	BHI62F-9RA	A-54
		BHI62EMT-A	A-164	BHI62F-9RH	A-54
		BHI62EMT-G2	A-170	BHI62F-A	A-55
		BHI62ET-120	A-54	BHI62F-G2	A-64
		BHI62ET-120RA	A-54	BHI62FMT-120	A-164
		BHI62ET-120RH	A-54	BHI62FMT-120RA	A-164
		BHI62ET-15	A-54	BHI62FMT-120RH	A-164
		BHI62ET-15RA	A-54	BHI62FMT-15	A-164
		BHI62ET-15RH	A-54	BHI62FMT-15RA	A-164

BH (BH Series)

BH6G2-100	B-85
BH6G2-100RA	B-85
BH6G2-100RH	B-85
BH6G2-120	A-64
BH6G2-120RA	A-64
BH6G2-120RH	A-64
BH6G2-15	A-64
BH6G2-15RA	A-64
BH6G2-15RH	A-64
BH6G2-18	A-64
BH6G2-180	A-64
BH6G2-180RA	A-64
BH6G2-180RH	A-64
BH6G2-18RA	A-64
BH6G2-18RH	A-64
BH6G2-3	B-85
BH6G2-3.6	A-64
BH6G2-30	A-64
BH6G2-30RA	A-64
BH6G2-30RH	A-64
BH6G2-36	A-64
BH6G2-36RA	A-64
BH6G2-36RH	A-64
BH6G2-5	B-85
BH6G2-50	B-85
BH6G2-50RA	B-85
BH6G2-50RH	B-85
BH6G2-5RA	B-85
BH6G2-6	A-64
BH6G2-60	A-64
BH6G2-60RA	A-64
BH6G2-60RH	A-64
BH6G2-6RA	A-64
BH6G2-6RH	A-64
BH6G2-9	A-64
BH6G2-90	A-64
BH6G2-90RA	A-64
BH6G2-90RH	A-64
BH6G2-9RA	A-64
BH6G2-9RH	A-64
BHI62E-120	A-54
BHI62E-120RA	A-54
BHI62E-120RH	A-54
BHI62E-15	A-54
BHI62E-15RA	A-54
BHI62E-15RH	A-54
BHI62E-18	A-54

Model	Page	Model	Page	Model	Page
BHI62FMT-15RH	A-164	BHI62SMT-15RA	A-164	BHM62T-G2	B-85
BHI62FMT-18	A-164	BHI62SMT-15RH	A-164		
BHI62FMT-180	A-164	BHI62SMT-18	A-164		
BHI62FMT-180RA	A-164	BHI62SMT-180	A-164		
BHI62FMT-180RH	A-164	BHI62SMT-180RA	A-164		
BHI62FMT-18RA	A-164	BHI62SMT-180RH	A-164		
BHI62FMT-18RH	A-164	BHI62SMT-18RA	A-164		
BHI62FMT-3.6	A-164	BHI62SMT-18RH	A-164		
BHI62FMT-30	A-164	BHI62SMT-3.6	A-164		
BHI62FMT-30RA	A-164	BHI62SMT-30	A-164		
BHI62FMT-30RH	A-164	BHI62SMT-30RA	A-164		
BHI62FMT-36	A-164	BHI62SMT-30RH	A-164		
BHI62FMT-36RA	A-164	BHI62SMT-36	A-164		
BHI62FMT-36RH	A-164	BHI62SMT-36RA	A-164		
BHI62FMT-6	A-164	BHI62SMT-36RA	A-164		
BHI62FMT-60	A-164	BHI62SMT-36RH	A-164		
BHI62FMT-60RA	A-164	BHI62SMT-6	A-164		
BHI62FMT-60RH	A-164	BHI62SMT-60	A-164		
BHI62FMT-6RA	A-164	BHI62SMT-60RA	A-164		
BHI62FMT-6RH	A-164	BHI62SMT-60RH	A-164		
BHI62FMT-9	A-164	BHI62SMT-60RA	A-164		
BHI62FMT-90	A-164	BHI62SMT-60RH	A-164		
BHI62FMT-90RA	A-164	BHI62SMT-6RA	A-164		
BHI62FMT-90RH	A-164	BHI62SMT-6RH	A-164		
BHI62FMT-9RA	A-164	BHI62SMT-9	A-164		
BHI62FMT-9RH	A-164	BHI62SMT-90	A-164		
BHI62FMT-A	A-164	BHI62SMT-90RA	A-164		
BHI62FMT-G2	A-170	BHI62SMT-90RH	A-164		
BHI62FT-120	A-54	BHI62SMT-9RA	A-164		
BHI62FT-120RA	A-54	BHI62SMT-9RH	A-164		
BHI62FT-120RH	A-54	BHI62SMT-A	A-164		
BHI62FT-15	A-54	BHI62SMT-G2	A-170		
BHI62FT-15RA	A-54	BHI62ST-120	A-54		
BHI62FT-15RH	A-54	BHI62ST-120RA	A-54		
BHI62FT-18	A-54	BHI62ST-120RH	A-54		
BHI62FT-180	A-54	BHI62ST-15	A-54		
BHI62FT-180RA	A-54	BHI62ST-15RA	A-54		
BHI62FT-180RH	A-54	BHI62ST-15RH	A-54		
BHI62FT-18RA	A-54	BHI62ST-18	A-54		
BHI62FT-18RH	A-54	BHI62ST-180RA	A-54		
BHI62FT-3.6	A-54	BHI62ST-180RH	A-54		
BHI62FT-30	A-54	BHI62ST-18RA	A-54		
BHI62FT-30RA	A-54	BHI62ST-18RH	A-54		
BHI62FT-30RH	A-54	BHI62ST-180	A-54		
BHI62FT-36	A-54	BHI62ST-180RA	A-54		
BHI62FT-36RA	A-54	BHI62ST-180RH	A-54		
BHI62FT-36RH	A-54	BHI62ST-18RA	A-54		
BHI62FT-6	A-54	BHI62ST-18RH	A-54		
BHI62FT-60	A-54	BHI62ST-3.6	A-54		
BHI62FT-60RA	A-54	BHI62ST-30	A-54		
BHI62FT-60RH	A-54	BHI62ST-30RA	A-54		
BHI62FT-6RA	A-54	BHI62ST-30RH	A-54		
BHI62FT-6RH	A-54	BHI62ST-36	A-54		
BHI62FT-9	A-54	BHI62ST-36RA	A-54		
BHI62FT-90	A-54	BHI62ST-36RH	A-54		
BHI62FT-90RA	A-54	BHI62ST-6	A-54		
BHI62FT-90RH	A-54	BHI62ST-60	A-54		
BHI62FT-9RA	A-54	BHI62ST-60RA	A-54		
BHI62FT-9RH	A-54	BHI62ST-60RH	A-54		
BHI62FT-A	A-55	BHI62ST-6RA	A-54		
BHI62FT-G2	A-64	BHI62ST-6RH	A-54		
BHI62SMT-120	A-164	BHI62ST-9	A-54		
BHI62SMT-120RA	A-164	BHI62ST-90	A-54		
BHI62SMT-120RH	A-164	BHI62ST-90RA	A-54		
BHI62SMT-15	A-164	BHI62ST-90RH	A-54		
		BHI62ST-9RA	A-54		
		BHI62ST-9RH	A-54		
		BHI62ST-A	A-55		
		BHI62ST-G2	A-64		
		BHM62MT-A	B-85		
		BHM62MT-G2	B-85		
		BHM62T-A	B-85		

BX (BX Series)

BX230A-10	B-11
BX230A-100	B-11
BX230A-15	B-11
BX230A-20	B-11
BX230A-200	B-11
BX230A-30	B-11
BX230A-5	B-11
BX230A-50	B-11
BX230A-A	B-12
BX230AM-10	B-11
BX230AM-100	B-11
BX230AM-15	B-11
BX230AM-20	B-11
BX230AM-200	B-11
BX230AM-30	B-11
BX230AM-5	B-11
BX230AM-50	B-11
BX230AM-A	B-12
BX230C-10	B-11
BX230C-100	B-11
BX230C-15	B-11
BX230C-20	B-11
BX230C-200	B-11
BX230C-30	B-11
BX230C-5	B-11
BX230C-50	B-11
BX230C-A	B-12
BX230CM-10	B-11
BX230CM-15	B-11
BX230CM-20	B-11
BX230CM-200	B-11
BX230CM-30	B-11
BX230CM-5	B-11
BX230CM-50	B-11
BX230CM-A	B-12
BX460A-10	B-11
BX460A-100	B-11
BX460A-15	B-11
BX460A-20	B-11
BX460A-200	B-11
BX460A-30	B-11
BX460A-5	B-11
BX460A-50	B-11
BX460A-A	B-12
BX460AM-10	B-11
BX460AM-100	B-11
BX460AM-15	B-11
BX460AM-20	B-11
BX460AM-200	B-11
BX460AM-30	B-11
BX460AM-5	B-11
BX460AM-50	B-11
BX460AM-A	B-12
BX460C-10	B-11
BX460C-100	B-11
BX460C-15	B-11
BX460C-20	B-11
BX460C-200	B-11
BX460C-30	B-11

Safety Standards	List of Safety Standard Approved Products	ISO 9000/14001	Global Power Supply Voltages	Product Line Updates	Product Index	Oriental Motor Corporate Overview	Oriental Motor Global Sales Network	Product Recommendation Information Sheet	Conversion Charts
------------------	---	----------------	------------------------------	----------------------	---------------	-----------------------------------	-------------------------------------	--	-------------------

Product Index

• Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page	Model	Page	Model	Page
BX460C-5	B-11	BX6200AM-A	B-12	BXM6400M-A	B-33
BX460C-50	B-11	BX6200C-10	B-11	BXM6400M-GH	B-33
BX460C-A	B-12	BX6200C-100	B-11		
BX460CM-10	B-11	BX6200C-15	B-11		
BX460CM-100	B-11	BX6200C-20	B-11		
BX460CM-15	B-11	BX6200C-200	B-11		
BX460CM-20	B-11	BX6200C-30	B-11		
BX460CM-200	B-11	BX6200C-5	B-11		
BX460CM-30	B-11	BX6200C-50	B-11		
BX460CM-5	B-11	BX6200C-A	B-12		
BX460CM-50	B-11	BX6200CM-10	B-11		
BX460CM-A	B-12	BX6200CM-100	B-11		
BX5120A-10	B-11	BX6200CM-15	B-11		
BX5120A-100	B-11	BX6200CM-20	B-11		
BX5120A-15	B-11	BX6200CM-200	B-11		
BX5120A-20	B-11	BX6200CM-30	B-11		
BX5120A-200	B-11	BX6200CM-5	B-11		
BX5120A-30	B-11	BX6200CM-50	B-11		
BX5120A-5	B-11	BX6200CM-A	B-12		
BX5120A-50	B-11	BX6400S-10	B-11		
BX5120A-A	B-12	BX6400S-100	B-11		
BX5120AM-10	B-11	BX6400S-15	B-11		
BX5120AM-100	B-11	BX6400S-20	B-11		
BX5120AM-15	B-11	BX6400S-200	B-11		
BX5120AM-20	B-11	BX6400S-30	B-11		
BX5120AM-200	B-11	BX6400S-5	B-11		
BX5120AM-30	B-11	BX6400S-50	B-11		
BX5120AM-5	B-11	BX6400S-A	B-12		
BX5120AM-50	B-11	BX6400SM-10	B-11		
BX5120AM-A	B-12	BX6400SM-100	B-11		
BX5120C-10	B-11	BX6400SM-15	B-11		
BX5120C-100	B-11	BX6400SM-20	B-11		
BX5120C-15	B-11	BX6400SM-200	B-11		
BX5120C-20	B-11	BX6400SM-30	B-11		
BX5120C-200	B-11	BX6400SM-5	B-11		
BX5120C-30	B-11	BX6400SM-50	B-11		
BX5120C-5	B-11	BX6400SM-A	B-12		
BX5120C-50	B-11	BXD120A-A	B-33		
BX5120C-A	B-12	BXD120A-C	B-33		
BX5120CM-10	B-11	BXD200A-A	B-33		
BX5120CM-100	B-11	BXD200A-C	B-33		
BX5120CM-15	B-11	BXD30A-A	B-33		
BX5120CM-20	B-11	BXD30A-C	B-33		
BX5120CM-200	B-11	BXD400A-S	B-33		
BX5120CM-30	B-11	BXD400B-S	B-33		
BX5120CM-5	B-11	BXD60A-A	B-33		
BX5120CM-50	B-11	BXD60A-C	B-33		
BX5120CM-A	B-12	BXM230-A2	B-33		
BX6200A-10	B-11	BXM230-GFH2	B-33		
BX6200A-100	B-11	BXM230M-A2	B-33		
BX6200A-15	B-11	BXM230M-GFH2	B-33		
BX6200A-20	B-11	BXM460-A2	B-33		
BX6200A-200	B-11	BXM460-GFH2	B-33		
BX6200A-30	B-11	BXM460M-A2	B-33		
BX6200A-5	B-11	BXM460M-GFH2	B-33		
BX6200A-50	B-11	BXM5120-A2	B-33		
BX6200A-A	B-12	BXM5120-GFH2	B-33		
BX6200AM-10	B-11	BXM5120M-A2	B-33		
BX6200AM-100	B-11	BXM5120M-GFH2	B-33		
BX6200AM-15	B-11	BXM6200-A	B-33		
BX6200AM-20	B-11	BXM6200-GH	B-33		
BX6200AM-200	B-11	BXM6200M-A	B-33		
BX6200AM-30	B-11	BXM6200M-GH	B-33		
BX6200AM-5	B-11	BXM6400-A	B-33		
BX6200AM-50	B-11	BXM6400-GH	B-33		



CBI (C•B Motors)

CBI540-701WU	A-174
CBI560-801WU	A-174
CBI590-801WU	A-174

CC (Accessories)

CC01AIP	C-282
CC01AIPM	C-282
CC01AXU	B-57
CC01EMP4	C-281
CC01EMP5	C-281
CC01EMP1T	C-264
CC02EMP4	C-281
CC02EMP5	C-281
CC01FBL	B-44
CC01FBLR	B-44
CC01SAR	C-282
CC01SARM2	C-282
CC01SBF	B-33
CC01SBR	B-33
CC01SS052	B-130
CC01SS2	B-130
CC02AIP	C-282
CC02AIPM	C-282
CC02AXH	B-68
CC02AXH2	B-68
CC02AXU	B-57
CC02FBL	B-44
CC02FBLR	B-44
CC02SAR	C-282
CC02SARM2	C-282
CC02SBF	B-33
CC02SBR	B-33
CC02SS052	B-130
CC02SS2	B-130
CC03AIP	C-282
CC03AIPM	C-282
CC03AXU	B-57
CC03FBL	B-44
CC03FBLR	B-44
CC03SAR	C-282
CC03SARM2	C-282
CC03SBF	B-33
CC03SBR	B-33
CC03SS052	B-130
CC03SS2	B-130
CC04SS052	B-130
CC04SS2	B-130
CC05AC33P	A-217
CC05AC43P	A-217
CC05AIP	C-282
CC05AIPM	C-282
CC05AXU	B-57

Model	Page
CC05FBL	B-44
CC05FBLR	B-44
CC05PK5	C-282
CC05SAR	C-282
CC05SARM2	C-282
CC05SBF	B-33
CC05SBR	B-33
CC07AIP	C-282
CC07AIPM	C-282
CC07FBL	B-44
CC07FBLR	B-44
CC07SAR	C-282
CC07SARM2	C-282
CC07SBF	B-33
CC07SBR	B-33
CC10AC33P	A-217
CC10AC43P	A-217
CC10AIP	C-282
CC10AIPM	C-282
CC10AXU	B-57
CC10FBL	B-44
CC10FBLR	B-44
CC10PK5	C-282
CC10SAR	C-282
CC10SARM2	C-282
CC10SBF	B-33
CC10SBR	B-33
CC15AIP	C-282
CC15AIPM	C-282
CC15SBF	B-33
CC15SBR	B-33
CC20AIP	C-282
CC20AIPM	C-282
CC20D1-1	C-281
CC20D2-1	C-281
CC20PK5	C-282
CC20SBF	B-33
CC20SBR	B-33
CC36D1-1	C-281
CC36D2-1	C-281

CFK (CFK II Series)

CFK513PAT	C-108
CFK513PBT	C-108
CFK533AT	C-108
CFK533BT	C-108
CFK535AT	C-108
CFK535BT	C-108
CFK543AT	C-109
CFK543BT	C-109
CFK544AT	C-109
CFK544BT	C-109
CFK545AT	C-109
CFK545BT	C-109
CFK564AT	C-109
CFK564BT	C-109
CFK566AT	C-109
CFK566BT	C-109
CFK566HAT	C-110
CFK566HBT	C-110
CFK569AT	C-109
CFK569BT	C-109
CFK569HAT	C-110

Model	Page
CFK569HBT	C-110
CFK5913HAT	C-110
CFK5913HBT	C-110
CFK596HAT	C-110
CFK596HBT	C-110
CFK599HAT	C-110
CFK599HBT	C-110

CSD (CSK Series Drivers)

CSD2109-T	C-182
CSD2112-T	C-182
CSD2120-T	C-182
CSD2140T	C-182
CSD2145T	C-182
CSD5807N-T	C-134
CSD5814N-T	C-134
CSD5828N-T	C-134

CSK (2-Phase CSK Series)

CSK243-ATA	C-164
CSK243ATA-SG10	C-169
CSK243ATA-SG18	C-169
CSK243ATA-SG3.6	C-169
CSK243ATA-SG36	C-169
CSK243ATA-SG7.2	C-169
CSK243ATA-SG9	C-169
CSK243-BTA	C-164
CSK243BTA-SG10	C-169
CSK243BTA-SG18	C-169
CSK243BTA-SG3.6	C-169
CSK243BTA-SG36	C-169
CSK243BTA-SG7.2	C-169
CSK243BTA-SG9	C-169
CSK243MATA	C-167
CSK243MBTA	C-167
CSK244-ATA	C-164
CSK244-BTA	C-164
CSK244MATA	C-167
CSK244MBTA	C-167
CSK245-ATA	C-164
CSK245-BTA	C-164
CSK245MATA	C-167
CSK245MBTA	C-167
CSK264-AT	C-164
CSK264ATA-SG10	C-171
CSK264ATA-SG18	C-171
CSK264ATA-SG3.6	C-171
CSK264ATA-SG36	C-171
CSK264ATA-SG7.2	C-171
CSK264ATA-SG9	C-171
CSK264-BT	C-164
CSK264BTA-SG10	C-171
CSK264BTA-SG18	C-171
CSK264BTA-SG3.6	C-171
CSK264BTA-SG36	C-171
CSK264BTA-SG7.2	C-171
CSK264BTA-SG9	C-171
CSK264MAT	C-167
CSK264MBT	C-167
CSK266-AT	C-164
CSK266-BT	C-164

Model	Page
CSK266MAT	C-167
CSK266MBT	C-167
CSK268-AT	C-164
CSK268-BT	C-164
CSK268MAT	C-167
CSK268MBT	C-167
CSK2913-ATA	C-166
CSK2913-BTA	C-166
CSK296-ATA	C-166
CSK296-BTA	C-166
CSK299-ATA	C-166
CSK299-BTA	C-166

CSK (5-Phase CSK Series)

CSK543AA-TG10	C-124
CSK543AA-TG20	C-124
CSK543AA-TG3.6	C-124
CSK543AA-TG30	C-124
CSK543AA-TG7.2	C-124
CSK543BA-TG10	C-124
CSK543BA-TG20	C-124
CSK543BA-TG3.6	C-124
CSK543BA-TG30	C-124
CSK543BA-TG7.2	C-124
CSK543-NATA	C-122
CSK543-NBTA	C-122
CSK544-NATA	C-122
CSK544-NBTA	C-122
CSK545-NATA	C-122
CSK545-NBTA	C-122
CSK564AA-TG10	C-125
CSK564AA-TG20	C-125
CSK564AA-TG3.6	C-125
CSK564AA-TG30	C-125
CSK564AA-TG7.2	C-125
CSK564BA-TG10	C-125
CSK564BA-TG20	C-125
CSK564BA-TG3.6	C-125
CSK564BA-TG30	C-125
CSK564BA-TG7.2	C-125
CSK564-NATA	C-122
CSK564-NBTA	C-122
CSK566-NATA	C-122
CSK566-NBTA	C-122
CSK569-NATA	C-122
CSK569-NBTA	C-122
CSK5913-NATA	C-123
CSK5913-NBTA	C-123
CSK596-NATA	C-123
CSK596-NBTA	C-123
CSK599-NATA	C-123
CSK599-NBTA	C-123

D

D (Dampers)

D4CL-5.0F	C-289
D6CL-6.3F	C-289

Product Index

• Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page
D6CL-8.0F	C-289
D9CL-12.7F	C-289
D9CL-14F	C-289

DFC (CFKII Series, DRL Series Drivers)

DFC5103T	C-118
DFC5107T	C-118
DFC5107T	D-16
DFC5114T	C-118
DFC5114T	D-16
DFC5128T	C-118

DRL (DRL Series)

DRL28PA1-03	D-16
DRL28PA1-03D	D-7
DRL28PA1G-03	D-16
DRL28PA1G-03D	D-7
DRL28PB1-03	D-16
DRL28PB1-03D	D-7
DRL28PB1G-03	D-16
DRL28PB1G-03D	D-7
DRL42PA2-04	D-16
DRL42PA2-04D	D-7
DRL42PA2G-04	D-16
DRL42PA2G-04D	D-7
DRL42PB2-04	D-16
DRL42PB2-04D	D-7
DRL42PB2G-04	D-16
DRL42PB2G-04D	D-7
DRL60PA4-05	D-16
DRL60PA4-05D	D-7
DRL60PA4G-05	D-16
DRL60PA4G-05D	D-7

E

EMP (EMP Series)

EMP401-1	C-257
EMP401-2	C-257
EMP402-1	C-257
EMP402-2	C-257

EP (Accessories)

EPCR1201-2	A-218
EPRC-400P	A-218

ES (ES Series)

ES01	B-86
ES02	B-86

F

FBL (FBLII Series)

FBL5120AW-10	B-35
FBL5120AW-100	B-35
FBL5120AW-15	B-35
FBL5120AW-20	B-35
FBL5120AW-200	B-35
FBL5120AW-30	B-35
FBL5120AW-5	B-35
FBL5120AW-50	B-35
FBL5120AW-A	B-35
FBL5120CW-10	B-35
FBL5120CW-100	B-35
FBL5120CW-15	B-35
FBL5120CW-20	B-35
FBL5120CW-200	B-35
FBL5120CW-30	B-35
FBL5120CW-5	B-35
FBL5120CW-50	B-35
FBL5120CW-A	B-35
FBL5120SW-10	B-35
FBL5120SW-100	B-35
FBL5120SW-15	B-35
FBL5120SW-20	B-35
FBL5120SW-200	B-35
FBL5120SW-30	B-35
FBL5120SW-5	B-35
FBL5120SW-50	B-35
FBL5120SW-A	B-35
FBL575AW-10	B-35
FBL575AW-100	B-35
FBL575AW-15	B-35
FBL575AW-20	B-35
FBL575AW-200	B-35
FBL575AW-30	B-35
FBL575AW-5	B-35
FBL575AW-50	B-35
FBL575AW-A	B-35
FBL575CW-10	B-35
FBL575CW-100	B-35
FBL575CW-15	B-35
FBL575CW-20	B-35
FBL575CW-200	B-35
FBL575CW-30	B-35
FBL575CW-5	B-35
FBL575CW-50	B-35
FBL575CW-A	B-35
FBL575SW-10	B-35
FBL575SW-100	B-35
FBL575SW-15	B-35
FBL575SW-20	B-35
FBL575SW-200	B-35
FBL575SW-30	B-35
FBL575SW-5	B-35
FBL575SW-50	B-35
FBL575SW-A	B-35
FBLD120AW	B-43
FBLD120CW	B-43
FBLD120SW	B-43
FBLD75AW	B-43
FBLD75CW	B-43

Model	Page
FBLD75SW	B-43
FBLM5120W-A	B-43
FBLM5120W-GFB	B-43
FBLM575W-A	B-43
FBLM575W-GFB	B-43

FC (Accessories)

FC02HBL	B-68
FC04W5	C-264
FC04W5	C-283

FD (Accessories)

FD8	E-110
FD10	E-110
FD12	E-110

FG (Accessories)

FG12D	E-102
FG14D	E-103
FG16D	E-103
FG17D	E-103
FG18D	E-103
FG20D	E-103
FG25D	E-103
FG4D	E-102
FG5D	E-102
FG6D	E-102
FG8D	E-102
FG915D	E-104
FG930D	E-104
FG9D	E-102
FGB10	E-104
FGB12	E-104
FGB8	E-104

FL (Accessories)

FL12	E-106
FL16	E-106
FL18	E-106
FL6	E-105
FL8	E-105
FL9	E-105
FLB10	E-106
FLB12	E-106
FLB8	E-106

FPW (FPW Series)

FPW425A-120U	A-121
FPW425A-15U	A-121
FPW425A-180U	A-121
FPW425A-18U	A-121
FPW425A-3.6U	A-121
FPW425A-30U	A-121
FPW425A-36U	A-121

Model	Page
FPW425A-60U	A-121
FPW425A-6U	A-121
FPW425A-90U	A-121
FPW425A-9U	A-121
FPW425C-120E	A-121
FPW425C-15E	A-121
FPW425C-180E	A-121
FPW425C-18E	A-121
FPW425C-3.6E	A-121
FPW425C-30E	A-121
FPW425C-36E	A-121
FPW425C-60E	A-121
FPW425C-6E	A-121
FPW425C-90E	A-121
FPW425C-9E	A-121
FPW425S-120	A-121
FPW425S-15	A-121
FPW425S-18	A-121
FPW425S-180	A-121
FPW425S-3.6	A-121
FPW425S-30	A-121
FPW425S-36	A-121
FPW425S-6	A-121
FPW425S-60	A-121
FPW425S-9	A-121
FPW425S-90	A-121
FPW540A-120U	A-121
FPW540A-15U	A-121
FPW540A-180U	A-121
FPW540A-18U	A-121
FPW540A-3.6U	A-121
FPW540A-30U	A-121
FPW540A-36U	A-121
FPW540A-60U	A-121
FPW540A-6U	A-121
FPW540A-90U	A-121
FPW540A-9U	A-121
FPW540C-120E	A-121
FPW540C-15E	A-121
FPW540C-180E	A-121
FPW540C-18E	A-121
FPW540C-3.6E	A-121
FPW540C-30E	A-121
FPW540C-36E	A-121
FPW540C-60E	A-121
FPW540C-6E	A-121
FPW540C-90E	A-121
FPW540C-9E	A-121
FPW540S-120	A-121
FPW540S-15	A-121
FPW540S-18	A-121
FPW540S-180	A-121
FPW540S-3.6	A-121
FPW540S-30	A-121
FPW540S-36	A-121
FPW540S-6	A-121
FPW540S-60	A-121
FPW540S-9	A-121
FPW540S-90	A-121
FPW560A-120U	A-121
FPW560A-15U	A-121
FPW560A-180U	A-121
FPW560A-18U	A-121
FPW560A-3.6U	A-121
FPW560A-30U	A-121

Model	Page
FPW560A-36U	A-121
FPW560A-60U	A-121
FPW560A-6U	A-121
FPW560A-90U	A-121
FPW560A-9U	A-121
FPW560C-120E	A-121
FPW560C-15E	A-121
FPW560C-180E	A-121
FPW560C-18E	A-121
FPW560C-3.6E	A-121
FPW560C-30E	A-121
FPW560C-36E	A-121
FPW560C-60E	A-121
FPW560C-6E	A-121
FPW560C-90E	A-121
FPW560C-9E	A-121
FPW560S-120	A-121
FPW560S-15	A-121
FPW560S-18	A-121
FPW560S-180	A-121
FPW560S-3.6	A-121
FPW560S-30	A-121
FPW560S-36	A-121
FPW560S-6	A-121
FPW560S-60	A-121
FPW560S-9	A-121
FPW560S-90	A-121
FPW690A-120U	A-121
FPW690A-15U	A-121
FPW690A-180U	A-121
FPW690A-18U	A-121
FPW690A-3.6U	A-121
FPW690A-30U	A-121
FPW690A-36U	A-121
FPW690A-60U	A-121
FPW690A-6U	A-121
FPW690A-90U	A-121
FPW690A-9U	A-121
FPW690C-120E	A-121
FPW690C-15E	A-121
FPW690C-180E	A-121
FPW690C-18E	A-121
FPW690C-3.6E	A-121
FPW690C-30E	A-121
FPW690C-36E	A-121
FPW690C-60E	A-121
FPW690C-6E	A-121
FPW690C-90E	A-121
FPW690C-9E	A-121
FPW690S-120	A-121
FPW690S-15	A-121
FPW690S-18	A-121
FPW690S-180	A-121
FPW690S-3.6	A-121
FPW690S-30	A-121
FPW690S-36	A-121
FPW690S-6	A-121
FPW690S-60	A-121
FPW690S-9	A-121
FPW690S-90	A-121

FS (Accessories)	
FS12	E-107

Model	Page
FS9	E-107
FS8	E-107

FSP	
FSP200-1	B-85
FSP200-2	B-85
FSP200-3	B-85

G

GF (Gearheads)	
GFB5G10	B-43
GFB5G100	B-43
GFB5G15	B-43
GFB5G20	B-43
GFB5G200	B-43
GFB5G30	B-43
GFB5G5	B-43
GFB5G50	B-43
GFH2G10	B-33
GFH2G100	B-33
GFH2G15	B-33
GFH2G20	B-33
GFH2G200	B-33
GFH2G30	B-33
GFH2G5	B-33
GFH2G50	B-33
GFH4G10	B-33
GFH4G100	B-33
GFH4G15	B-33
GFH4G20	B-33
GFH4G200	B-33
GFH4G30	B-33
GFH4G5	B-33
GFH4G50	B-33
GFH5G10	B-33
GFH5G100	B-33
GFH5G15	B-33
GFH5G20	B-33
GFH5G200	B-33
GFH5G30	B-33
GFH5G5	B-33
GFH5G50	B-33

GV (Gearheads)	
GV2G120	A-23
GV2G15	A-23
GV2G18	A-23
GV2G180	A-23
GV2G30	A-23
GV2G300	A-23
GV2G36	A-23
GV2G360	A-23
GV2G5	A-23
GV2G6	A-23

Product Index

• Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page
GV2G60	A-23
GV2G9	A-23
GV2G90	A-23
GV3G120	A-27
GV3G15	A-27
GV3G18	A-27
GV3G180	A-27
GV3G30	A-27
GV3G300	A-27
GV3G36	A-27
GV3G360	A-27
GV3G5	A-27
GV3G6	A-27
GV3G60	A-27
GV3G9	A-27
GV3G90	A-27
GV4G120	A-33
GV4G15	A-33
GV4G18	A-33
GV4G180	A-33
GV4G30	A-33
GV4G300	A-33
GV4G36	A-33
GV4G360	A-33
GV4G5	A-33
GV4G6	A-33
GV4G60	A-33
GV4G9	A-33
GV4G90	A-33
GVH5G120	A-39
GVH5G15	A-39
GVH5G18	A-39
GVH5G180	A-39
GVH5G30	A-39
GVH5G300	A-39
GVH5G36	A-39
GVH5G5	A-39
GVH5G6	A-39
GVH5G60	A-39
GVH5G9	A-39
GVH5G90	A-39
GVR5G120	A-53
GVR5G15	A-53
GVR5G18	A-53
GVR5G180	A-53
GVR5G30	A-53
GVR5G36	A-53
GVR5G5	A-53
GVR5G6	A-53
GVR5G60	A-53
GVR5G9	A-53
GVR5G90	A-53

L

LC (Accessories)

LC2U06A	C-283
LC2U06B	C-283
LC2U10A	C-283
LC2U10B	C-283

Model	Page
LC5N06A	C-283
LC5N10A	C-283
LCS01PMC	C-283

LXD (Accessories)

LXD0C	D-41
LXD2C	D-41
LXD4C	D-41
LXD5C	D-41

M

MB (Centrifugal Blowers)

MB1040-B	E-70
MB1040-D	E-70
MB1255-B	E-68
MB1255-D	E-68
MB1255-T	E-68
MB1665-B	E-66
MB1665-D	E-66
MB1665-T	E-66
MB520-B	E-76
MB520-D	E-76
MB630-B	E-74
MB630-D	E-74
MB840-B	E-72
MB840-D	E-72
MB840-T	E-72
MBD10-24	E-80
MBD10-24A	E-80
MBD10-24S	E-80
MBD10-48	E-80
MBD10-48S	E-80
MBD12-24	E-78
MBD8-24	E-82
MBD8-24A	E-82
MBD8-24S	E-82
MBD8-48	E-82
MBD8-48S	E-82

MC (Accessories)

MC1205F03C	C-285
MC1605F03C	C-285
MC1605F04C	C-285
MC2005F03C	C-285
MC2005F04C	C-285
MC2005F05C	C-285
MC2008F04C	C-285
MC2008F05C	C-285
MC2508F04C	C-285
MC2508F05C	C-285
MC2508F06C	C-285
MC25F04F04C	C-285
MC25F04F05C	C-285
MC25F04F06C	C-285

Model	Page
MC3208F04C	C-285
MC3208F05C	C-285
MC3208F06C	C-285
MC32F04F04C	C-285
MC32F04F05C	C-285
MC32F04F06C	C-285
MC4014F06C	C-285
MC4014F08C	C-285
MC4014F10C	C-285
MC40F08F06C	C-285
MC40F08F08C	C-285
MC40F08F10C	C-285
MC5014F08C	C-285
MC5014F10C	C-285
MC50F08F08C	C-285
MC50F08F10C	C-285
MCL2005F03	C-287
MCL2005F04	C-287
MCL2005F05	C-287
MCL20F03F03	A-210
MCL20F03F04	A-210
MCL20F03F05	A-210
MCL20F04F04	A-210
MCL20F04F05	A-210
MCL20F05F05	A-210
MCL3008F06	A-210
MCL3010F05	A-210
MCL3010F06	A-210
MCL3010F08	A-210
MCL3012F05	A-210
MCL3012F06	A-210
MCL3012F08	A-210
MCL30F04F05	A-210
MCL30F04F05	C-287
MCL30F05F05	A-210
MCL30F05F05	C-287
MCL30F05F06	A-210
MCL30F05F06	C-287
MCL30F06F06	A-210
MCL30F06F08	A-210
MCL30F08F08	A-210
MCL4010F05	A-210
MCL4010F06	A-210
MCL4010F08	A-210
MCL4012F06	A-210
MCL4012F08	A-210
MCL4012F10	A-210
MCL4014F06	A-210
MCL4014F08	A-210
MCL4014F10	A-210
MCL4015F06	A-210
MCL4015F08	A-210
MCL4015F10	A-210
MCL40F05F06	A-210
MCL40F06F06	A-210
MCL40F06F08	A-210
MCL40F06F08	C-287
MCL40F08F08	A-210
MCL40F08F08	C-287
MCL40F08F10	A-210
MCL40F08F10	C-287
MCL40F10F10	A-210
MCL5515F08	A-210
MCL5515F10	A-210
MCL5515F12	A-210

Model	Page
MCL5518F10	A-210
MCL5518F12	A-210
MCL55F10F10	A-210
MCL55F10F12	A-210
MCL6518F10	A-210
MCL6518F12	A-210
MCL652022	A-210
MCL652222	A-210
MCL652225	A-210

MD (MD Series)

MD1225-12	E-50
MD1225-24	E-50
MD625B-12	E-56
MD625B-12L	E-56
MD625B-12S	E-56
MD625B-24	E-56
MD625B-24L	E-56
MD625B-24S	E-56
MD625BM-12	E-56
MD625BM-24	E-56
MD825B-12	E-54
MD825B-12L	E-54
MD825B-12S	E-54
MD825B-24	E-54
MD825B-24L	E-54
MD825B-24S	E-54
MD825BL-12	E-54
MD825BM-12	E-54
MD825BM-24	E-54
MD925A-12	E-52
MD925A-12L	E-52
MD925A-12S	E-52
MD925A-24	E-52
MD925A-24L	E-52
MD925A-24S	E-52
MD925AL-12	E-52
MD925AL-24	E-52
MD925AM-12	E-52
MD925AM-24	E-52

MDE (MDE Series)

MDE1225-12L	E-44
MDE1225-24L	E-44

MDS (MDS Series)

MDS1225-12	E-48
MDS1225-12M	E-48
MDS1225-24	E-48
MDS1225-24M	E-48
MDS1751-24	E-46
MDS1751-24B	E-46
MDS1751-24S	E-46
MDS410-12	E-60
MDS410-12L	E-60
MDS410-24	E-60
MDS410-24L	E-60
MDS410M-5	E-60
MDS510-12	E-58

Model	Page
MDS510-12L	E-58
MDS510-24	E-58
MDS510-24L	E-58
MDS510M-12	E-58
MDS510M-24	E-58
MDS510M-5	E-58

MF (Cross Flow Fans)

MF915B-BC	E-90
MF915-BC	E-90
MF915B-DC	E-90
MF915-DC	E-90
MF930B-BC	E-88
MF930-BC	E-88
MF930B-DC	E-88
MF930-DC	E-88
MFD915-24	E-94
MFD915-24A	E-94
MFD915-48	E-94
MFD915-48S	E-94
MFD915B-24	E-94
MFD915B-24A	E-94
MFD915B-48	E-94
MFD915B-48S	E-94
MFD930-24	E-92
MFD930-24A	E-92
MFD930-48	E-92
MFD930-48S	E-92
MFD930B-24	E-92
MFD930B-24A	E-92
MFD930B-48	E-92
MFD930B-48S	E-92

MRS (MRS Series)

MRS14-TTM	E-32
MRS14-TUL	E-32
MRS16-BTA	E-30
MRS16-BTM	E-30
MRS16-BUL	E-30
MRS16-DTA	E-30
MRS16-DTM	E-30
MRS16-DUL	E-30
MRS16-TTA	E-30
MRS16-TTM	E-30
MRS16-TUL	E-30
MRS18-BTM	E-28
MRS18-BUL	E-28
MRS18-DTM	E-28
MRS18-DUL	E-28
MRS18-TTM	E-28
MRS18-TUL	E-28
MRS18V2-B	E-34
MRS18V2-D	E-34
MRS20-BM	E-26
MRS20-BUL	E-26
MRS20-DM	E-26
MRS20-DUL	E-26
MRS20-TM	E-26
MRS20-TUL	E-26
MRS25-B	E-24
MRS25-BB	E-24

Model	Page
MRS25-BM	E-24
MRS25-D	E-24
MRS25-DB	E-24
MRS25-DM	E-24
MRS25-T	E-24
MRS25-TB	E-24
MRS25-TM	E-24

MU (MU Series)

MU1225M-21	E-38
MU1225M-51	E-38
MU1225S-21	E-38
MU1225S-51	E-38
MU1238A-21B	E-36
MU1238A-51B	E-36
MU1238B-21B	E-36
MU1238B-51B	E-36
MU1238L-21B	E-36
MU1238L-51B	E-36
MU825S-23	E-42
MU825S-53	E-42
MU925M-21	E-40
MU925M-51	E-40
MU925S-21	E-40
MU925S-51	E-40



OP300	C-264
OPX-1A	B-10



PA (Accessories)

PADP01	A-217
PADP01	C-294
PAFOP	C-291
PALOPA	C-291
PAL2P-2	C-291
PAL2P-5A	C-291
PAL4P-2	C-291
PAL4P-5A	C-291
PAS2B	E-109
PAS4B	E-109
PAS5A	E-109
PAS6A	E-109
PAVR-20KZ	A-216

Product Index

• Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page	Model	Page	Model	Page
PCA (Accessories)					
PCA2B	E-108	PK243B1A-SG7.2	C-182	PK264-01A	C-214
PCA2D2	E-108	PK243B1A-SG9	C-212	PK264-01AR11	C-233
PK (Stepping Motors)					
PK223PA	C-196	PK243B1A-SG9	C-182	PK264-01AR12	C-233
PK223PA-SG10	C-198	PK243B2A-SG10	C-212	PK264-01B	C-214
PK223PA-SG18	C-198	PK243B2A-SG18	C-212	PK264-02A	C-214
PK223PA-SG36	C-198	PK243B2A-SG3.6	C-212	PK264-02A	C-160
PK223PA-SG7.2	C-198	PK243B2A-SG36	C-212	PK264-02A	C-182
PK223PA-SG9	C-198	PK243B2A-SG7.2	C-212	PK264-02AR11	C-233
PK223PB	C-196	PK243B2A-SG9	C-212	PK264-02AR12	C-233
PK223PB-SG10	C-198	PK243M-01AA	C-208	PK264-02B	C-214
PK223PB-SG18	C-198	PK243M-01BA	C-208	PK264-02B	C-160
PK223PB-SG36	C-198	PK243M-02AA	C-208	PK264-02B	C-182
PK223PB-SG7.2	C-198	PK243M-02BA	C-208	PK264-03A	C-214
PK223PB-SG9	C-198	PK243M-03AA	C-208	PK264-03AR11	C-233
PK224PA	C-196	PK243M-03BA	C-208	PK264-03AR12	C-233
PK224PB	C-196	PK243MAA	C-160	PK264-03B	C-214
PK225PA	C-196	PK243MAA	C-182	PK264A1A-SG10	C-222
PK225PB	C-196	PK243MBA	C-160	PK264A1A-SG18	C-222
PK233PA	C-200	PK243MBA	C-182	PK264A1A-SG3.6	C-222
PK233PB	C-200	PK244-01AA	C-204	PK264A1A-SG36	C-222
PK235PA	C-200	PK244-01AA	C-160	PK264A1A-SG7.2	C-222
PK235PB	C-200	PK244-01AA	C-182	PK264A1A-SG9	C-222
PK243-01AA	C-204	PK244-01BA	C-204	PK264A2A-SG10	C-182
PK243-01AA	C-160	PK244-01BA	C-160	PK264A2A-SG18	C-182
PK243-01AA	C-182	PK244-02AA	C-204	PK264A2A-SG18	C-182
PK243-01BA	C-204	PK244-02BA	C-204	PK264A2A-SG3.6	C-222
PK243-01BA	C-160	PK244-03AA	C-204	PK264A2A-SG3.6	C-182
PK243-01BA	C-182	PK244-03BA	C-204	PK264A2A-SG36	C-222
PK243-02AA	C-204	PK244-04AA	C-204	PK264A2A-SG36	C-182
PK243-02BA	C-204	PK244-04BA	C-204	PK264A2A-SG7.2	C-222
PK243-03AA	C-204	PK244M-01AA	C-208	PK264A2A-SG7.2	C-182
PK243-03BA	C-204	PK244M-01BA	C-208	PK264A2A-SG9	C-222
PK243A1A-SG10	C-212	PK244M-02AA	C-208	PK264A2A-SG9	C-182
PK243A1A-SG10	C-182	PK244M-02BA	C-208	PK264B1A-SG10	C-222
PK243A1A-SG18	C-212	PK244M-03AA	C-208	PK264B1A-SG18	C-222
PK243A1A-SG18	C-182	PK244M-03BA	C-208	PK264B1A-SG3.6	C-222
PK243A1A-SG3.6	C-212	PK244MAA	C-160	PK264B1A-SG36	C-222
PK243A1A-SG3.6	C-182	PK244MAA	C-182	PK264B1A-SG7.2	C-222
PK243A1A-SG36	C-212	PK244MBA	C-160	PK264B1A-SG9	C-222
PK243A1A-SG36	C-182	PK244MBA	C-182	PK264B1A-SG9	C-182
PK243A1A-SG7.2	C-212	PK244PA	C-202	PK264B2A-SG10	C-182
PK243A1A-SG7.2	C-182	PK244PB	C-202	PK264B2A-SG18	C-182
PK243A1A-SG9	C-212	PK245-01AA	C-204	PK264B2A-SG18	C-182
PK243A1A-SG9	C-182	PK245-01AA	C-160	PK264B2A-SG3.6	C-222
PK243A2A-SG10	C-212	PK245-01AA	C-182	PK264B2A-SG3.6	C-182
PK243A2A-SG18	C-212	PK245-01BA	C-204	PK264B2A-SG36	C-222
PK243A2A-SG3.6	C-212	PK245-01BA	C-160	PK264B2A-SG36	C-182
PK243A2A-SG36	C-212	PK245-01BA	C-182	PK264B2A-SG7.2	C-222
PK243A2A-SG7.2	C-212	PK245-02AA	C-204	PK264B2A-SG7.2	C-182
PK243A2A-SG9	C-212	PK245-02BA	C-204	PK264B2A-SG9	C-222
PK243B1A-SG10	C-212	PK245-03AA	C-204	PK264B2A-SG9	C-182
PK243B1A-SG10	C-182	PK245-03BA	C-204	PK264-E2.0A	C-214
PK243B1A-SG18	C-212	PK245M-01AA	C-208	PK264-E2.0AR11	C-233
PK243B1A-SG18	C-182	PK245M-01BA	C-208	PK264-E2.0AR12	C-233
PK243B1A-SG3.6	C-212	PK245M-02AA	C-208	PK264-E2.0B	C-214
PK243B1A-SG3.6	C-182	PK245M-02BA	C-208	PK264M-01A	C-218
PK243B1A-SG36	C-212	PK245M-03AA	C-208	PK264M-01AR11	C-236
PK243B1A-SG36	C-182	PK245M-03BA	C-208	PK264M-01AR12	C-236
PK243B1A-SG36	C-212	PK245MAA	C-160	PK264M-01B	C-218
PK243B1A-SG36	C-182	PK245MAA	C-182	PK264M-02A	C-218
PK243B1A-SG7.2	C-212	PK245MBA	C-160	PK264M-02AR11	C-236
PK243B1A-SG7.2	C-182	PK245MBA	C-182	PK264M-02AR12	C-236
		PK246PA	C-202	PK264M-02B	C-218
		PK246PB	C-202	PK264M-03A	C-218

Model	Page	Model	Page	Model	Page
PK264M-03AR11	C-236	PK268M-02A	C-218	PK543AW-H100S	C-104
PK264M-03AR12	C-236	PK268M-02B	C-218	PK543AW-H50S	C-104
PK264M-03B	C-218	PK268M-03A	C-218	PK543AW-T10	C-104
PK264MA	C-160	PK268M-03B	C-218	PK543AW-T20	C-104
PK264MA	C-182	PK268MA	C-160	PK543AW-T3.6	C-104
PK264MB	C-160	PK268MA	C-182	PK543AW-T30	C-104
PK264MB	C-182	PK268MB	C-160	PK543AW-T7.2	C-104
PK264M-E2.0A	C-218	PK268MB	C-182	PK543BW	C-104
PK264M-E2.0AR11	C-236	PK268M-E2.0A	C-218	PK543BW-H100S	C-104
PK264M-E2.0AR12	C-236	PK268M-E2.0B	C-218	PK543BW-H50S	C-104
PK264M-E2.0B	C-218	PK2913-01AA	C-227	PK543BW-T10	C-104
PK266-01A	C-214	PK2913-01BA	C-227	PK543BW-T20	C-104
PK266-01AR11	C-233	PK2913-02AA	C-182	PK543BW-T3.6	C-104
PK266-01AR12	C-233	PK2913-02AA	C-182	PK543BW-T30	C-104
PK266-01B	C-214	PK2913-02BA	C-227	PK543BW-T7.2	C-104
PK266-02A	C-214	PK2913-02BA	C-182	PK543NAWA	C-118
PK266-02A	C-160	PK2913-F4.0A	C-227	PK543NAWA	C-134
PK266-02A	C-182	PK2913-F4.0B	C-227	PK543NAWA-T10	C-134
PK266-02AR11	C-233	PK296-01AA	C-227	PK543NAWA-T20	C-134
PK266-02AR12	C-233	PK296-01BA	C-227	PK543NAWA-T3.6	C-134
PK266-02B	C-214	PK296-02AA	C-227	PK543NAWA-T30	C-134
PK266-02B	C-160	PK296-02BA	C-227	PK543NAWA-T7.2	C-134
PK266-02B	C-182	PK296-03AA	C-227	PK543NBWA	C-118
PK266-03A	C-214	PK296-03AA	C-182	PK543NBWA	C-134
PK266-03AR11	C-233	PK296-03BA	C-227	PK543NBWA-T10	C-134
PK266-03AR12	C-233	PK296-03BA	C-182	PK543NBWA-T20	C-134
PK266-03B	C-214	PK296A1A-SG10	C-231	PK543NBWA-T3.6	C-134
PK266-E2.0A	C-214	PK296A1A-SG18	C-231	PK543NBWA-T30	C-134
PK266-E2.0AR11	C-233	PK296A1A-SG3.6	C-231	PK543NBWA-T7.2	C-134
PK266-E2.0AR12	C-233	PK296A1A-SG36	C-231	PK544AW	C-104
PK266-E2.0B	C-214	PK296A1A-SG7.2	C-231	PK544AW-N10	C-104
PK266M-01A	C-218	PK296A1A-SG9	C-231	PK544AW-N5	C-104
PK266M-01AR11	C-236	PK296A2A-SG10	C-231	PK544AW-N7.2	C-104
PK266M-01AR12	C-236	PK296A2A-SG18	C-231	PK544BW	C-104
PK266M-01B	C-218	PK296A2A-SG3.6	C-231	PK544BW-N10	C-104
PK266M-02A	C-218	PK296A2A-SG36	C-231	PK544BW-N5	C-104
PK266M-02AR11	C-236	PK296A2A-SG7.2	C-231	PK544BW-N7.2	C-104
PK266M-02AR12	C-236	PK296A2A-SG9	C-231	PK544NAWA	C-118
PK266M-02B	C-218	PK296B1A-SG10	C-231	PK544NAWA	C-134
PK266M-03A	C-218	PK296B1A-SG18	C-231	PK544NBWA	C-118
PK266M-03AR11	C-236	PK296B1A-SG3.6	C-231	PK544NBWA	C-134
PK266M-03AR12	C-236	PK296B1A-SG36	C-231	PK545AW	C-104
PK266M-03B	C-218	PK296B1A-SG7.2	C-231	PK545BW	C-104
PK266MA	C-160	PK296B1A-SG9	C-231	PK545NAWA	C-118
PK266MA	C-182	PK296B2A-SG10	C-231	PK545NAWA	C-134
PK266MB	C-160	PK296B2A-SG18	C-231	PK545NBWA	C-118
PK266MB	C-182	PK296B2A-SG3.6	C-231	PK545NBWA	C-134
PK266M-E2.0A	C-218	PK296B2A-SG36	C-231	PK564AW	C-104
PK266M-E2.0AR11	C-236	PK296B2A-SG7.2	C-231	PK564AW-H100S	C-104
PK266M-E2.0AR12	C-236	PK296F4.5A	C-227	PK564AW-H50S	C-104
PK266M-E2.0B	C-218	PK296F4.5B	C-227	PK564AW-N25	C-104
PK268-01A	C-214	PK299-01AA	C-227	PK564AW-N36	C-104
PK268-01B	C-214	PK299-01BA	C-227	PK564AW-N50	C-104
PK268-02A	C-214	PK299-02AA	C-227	PK564AW-T10	C-104
PK268-02A	C-160	PK299-02BA	C-227	PK564AW-T20	C-104
PK268-02A	C-182	PK299-03AA	C-227	PK564AW-T3.6	C-104
PK268-02B	C-214	PK299-03AA	C-182	PK564AW-T30	C-104
PK268-02B	C-160	PK299-03BA	C-227	PK564AW-T7.2	C-104
PK268-02B	C-182	PK299-03BA	C-182	PK564BW	C-104
PK268-03A	C-214	PK299-F4.5A	C-227	PK564BW-H100S	C-104
PK268-03B	C-214	PK299-F4.5B	C-227	PK564BW-H50S	C-104
PK268-E2.0A	C-214	PK513PA	C-118	PK564BW-N25	C-104
PK268-E2.0B	C-214	PK513PB	C-118	PK564BW-N36	C-104
PK268M-01A	C-218	PK543AW	C-104	PK564BW-N50	C-104
PK268M-01B	C-218			PK564BW-T10	C-104

Product Index

• Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page
PK564BW-T20	C-104
PK564BW-T3.6	C-104
PK564BW-T30	C-104
PK564BW-T7.2	C-104
PK564NAWA	C-118
PK564NAWA	C-134
PK564NAWA-T10	C-134
PK564NAWA-T20	C-134
PK564NAWA-T3.6	C-134
PK564NAWA-T30	C-134
PK564NAWA-T7.2	C-134
PK564NBWA	C-118
PK564NBWA	C-134
PK564NBWA-T10	C-134
PK564NBWA-T20	C-134
PK564NBWA-T3.6	C-134
PK564NBWA-T30	C-134
PK564NBWA-T7.2	C-134
PK566AW	C-104
PK566AW-N10	C-104
PK566AW-N5	C-104
PK566AW-N7.2	C-104
PK566BW	C-104
PK566BW-N10	C-104
PK566BW-N5	C-104
PK566BW-N7.2	C-104
PK566H-NAA	C-118
PK566H-NBA	C-118
PK566NAWA	C-118
PK566NAWA	C-134
PK566NBWA	C-118
PK566NBWA	C-134
PK569AW	C-104
PK569BW	C-104
PK569H-NAA	C-118
PK569H-NBA	C-118
PK569NAWA	C-118
PK569NAWA	C-134
PK569NBWA	C-118
PK569NBWA	C-134
PK5913AW	C-104
PK5913BW	C-104
PK5913-NAA	C-118
PK5913-NAA	C-134
PK5913-NBA	C-118
PK5913-NBA	C-134
PK596AW	C-104
PK596AW1-H100	C-104
PK596AW1-H50	C-104
PK596AW-N25	C-104
PK596AW-N36	C-104
PK596AW-N50	C-104
PK596AW1-T10	C-104
PK596AW1-T20	C-104
PK596AW-T3.6	C-104
PK596AW1-T30	C-104
PK596AW-T7.2	C-104
PK596BW	C-104
PK596BW1-H100	C-104
PK596BW1-H50	C-104
PK596BW-N25	C-104
PK596BW-N36	C-104
PK596BW-N50	C-104
PK596BW1-T10	C-104
PK596BW1-T20	C-104

Model	Page
PK596BW-T3.6	C-104
PK596BW1-T30	C-104
PK596BW-T7.2	C-104
PK596-NAA	C-118
PK596-NAA	C-134
PK596-NBA	C-118
PK596-NBA	C-134
PK599AW	C-104
PK599AW-N10	C-104
PK599AW-N5	C-104
PK599AW-N7.2	C-104
PK599BW	C-104
PK599BW-N10	C-104
PK599BW-N5	C-104
PK599BW-N7.2	C-104
PK599-NAA	C-118
PK599-NAA	C-134
PK599-NBA	C-118
PK599-NBA	C-134

PM

PMC33A3	C-138
PMC33A1-HG50	C-141
PMC33A1-HG100	C-141
PMC33A1-MG3.6	C-139
PMC33A1-MG7.2	C-139
PMC33A1-MG10	C-139
PMC33A1-MG20	C-139
PMC33A1-MG30	C-139
PMC33B3	C-138
PMC33B1-HG50	C-141
PMC33B1-HG100	C-141
PMC33B1-MG3.6	C-139
PMC33B1-MG7.2	C-139
PMC33B1-MG10	C-139
PMC33B1-MG20	C-139
PMC33B1-MG30	C-139
PMC35A3	C-138
PMC35B3	C-138
PMD03CA	C-148
PMM33A2	C-148
PMM33AH2	C-118
PMM33A-HG50	C-148
PMM33A-HG100	C-148
PMM33A-MG3.6	C-148
PMM33A-MG7.2	C-148
PMM33A-MG10	C-148
PMM33A-MG20	C-148
PMM33A-MG30	C-148
PMM33B2	C-148
PMM33BH2	C-118
PMM33B-HG50	C-148
PMM33B-HG100	C-148
PMM33B-MG3.6	C-148
PMM33B-MG7.2	C-148
PMM33B-MG10	C-148
PMM33B-MG20	C-148
PMM33B-MG30	C-148
PMM35A2	C-148
PMM35AH2	C-118
PMM35B2	C-148
PMM35BH2	C-118

Model	Page
-------	------

PV (PV Series)

PV264-02AA	C-224
PV264-02BA	C-224
PV264-D2.8AA	C-224
PV264-D2.8BA	C-224
PV266-02AA	C-224
PV266-02BA	C-224
PV266-D2.8AA	C-224
PV266-D2.8BA	C-224
PV267-02AA	C-224
PV267-02BA	C-224
PV267-D2.8AA	C-224
PV267-D2.8BA	C-224
PV269-02AA	C-224
PV269-02BA	C-224
PV269-D2.8AA	C-224
PV269-D2.8BA	C-224

R

RGB (Accessories)

RGB100	B-33
---------------	------

RK (RK Series)

RK543AA	C-81
RK543AA-T3.6	C-83
RK543AA-T7.2	C-83
RK543AA-T10	C-83
RK543AA-T20	C-83
RK543AA-T30	C-83
RK543AA-H50	C-89
RK543AA-H100	C-89
RK543BA	C-81
RK543BA-T3.6	C-83
RK543BA-T7.2	C-83
RK543BA-T10	C-83
RK543BA-T20	C-83
RK543BA-T30	C-83
RK543BA-H50	C-89
RK543BA-H100	C-89
RK544AA	C-81
RK544AA-N5	C-86
RKD507-A	C-104
RKD514H-A	C-104
RKD514H-C	C-104
RKD514L-A	C-104
RKD514L-C	C-104
RK544AA-N7.2	C-86
RK544AA-N10	C-86
RK544BA	C-81
RK544BA-N5	C-86
RK544BA-N7.2	C-86
RK544BA-N10	C-86
RK545AA	C-81
RK545BA	C-81
RK564AA	C-82

Model	Page	Model	Page	Model	Page
RK564AA-T3.6	C-84	RK596AA-T7.2	C-85	S	
RK564AA-T7.2	C-84	RK596AA-T10	C-85	SB (Brake Pack)	
RK564AA-T10	C-84	RK596AA-T20	C-85	SB50	
RK564AA-T20	C-84	RK596AA-T30	C-85	SDM (Accessories)	
RK564AA-T30	C-84	RK596AA-N25	C-88	SDM496	
RK564AA-N25	C-87	RK596AA-N36	C-88	SG (Controllers)	
RK564AA-N36	C-87	RK596AA-N50	C-88	SG8030J-D	
RK564AA-N50	C-87	RK596AA-H50	C-89	SG8030J-U	
RK564AA-H50	C-89	RK596AA-H100	C-89	SMK (Low-Speed Synchronous Motors)	
RK564AA-H100	C-89	RK596AC	C-82	SMK014A-A	
RK564AC	C-82	RK596AC-T3.6	C-85	SMK014MA-A	
RK564AC-T3.6	C-84	RK596AC-T7.2	C-85	SMK0A-100A	
RK564AC-T7.2	C-84	RK596AC-T10	C-85	SMK0A-12.5A	
RK564AC-T10	C-84	RK596AC-T20	C-85	SMK0A-120A	
RK564AC-T20	C-84	RK596AC-T30	C-85	SMK0A-150A	
RK564AC-T30	C-84	RK596AC-N25	C-88	SMK0A-15A	
RK564AC-N25	C-87	RK596AC-N36	C-88	SMK0A-180A	
RK564AC-N36	C-87	RK596AC-N50	C-88	SMK0A-18A	
RK564AC-N50	C-87	RK596AC-H50	C-89	SMK0A-25A	
RK564AC-H50	C-89	RK596AC-H100	C-89	SMK0A-3.6A	
RK564AC-H100	C-89	RK596BA	C-82	SMK0A-30A	
RK564BA	C-82	RK596BA-T3.6	C-85	SMK0A-36A	
RK564BA-T3.6	C-84	RK596BA-T7.2	C-85	SMK0A-3A	
RK564BA-T7.2	C-84	RK596BA-T10	C-85	SMK0A-50A	
RK564BA-T10	C-84	RK596BA-T20	C-85	SMK0A-5A	
RK564BA-T20	C-84	RK596BA-T30	C-85	SMK0A-60A	
RK564BA-T30	C-84	RK596BA-N25	C-88	SMK0A-6A	
RK564BA-N25	C-87	RK596BA-N36	C-88	SMK0A-7.5A	
RK564BA-N36	C-87	RK596BA-N50	C-88	SMK0A-75A	
RK564BA-N50	C-87	RK596BA-H50	C-89	SMK0A-90A	
RK564BA-H50	C-89	RK596BA-H100	C-89	SMK0A-9A	
RK564BA-H100	C-89	RK596BC	C-82	SMK216A-GN	
RK564BC	C-82	RK596BC-T3.6	C-85	SMK237A-A	
RK564BC-T3.6	C-84	RK596BC-T7.2	C-85	SMK5100A-AA	
RK564BC-T7.2	C-84	RK596BC-T10	C-85	SMK5160A-AA	
RK564BC-T10	C-84	RK596BC-T20	C-85	SMK550A-GN	
RK564BC-T20	C-84	RK596BC-T30	C-85	SO (Accessories)	
RK564BC-T30	C-84	RK596BC-N25	C-88	SOLOA-A	
RK564BC-N25	C-87	RK596BC-N36	C-88	SOLOB	
RK564BC-N36	C-87	RK596BC-N50	C-88	SOLOB-A	
RK564BC-N50	C-87	RK596BC-H50	C-89	SOL0U04	
RK564BC-H50	C-89	RK596BC-H100	C-89	SOL2A-A	
RK564BC-H100	C-89	RK599AA	C-82	SOL2M4	
RK566AA	C-82	RK599AA-N5	C-88	SOL2U08	
RK566AA-N5	C-87	RK599AA-N7.2	C-88	SOL3M6	
RK566AA-N7.2	C-87	RK599AA-N10	C-88		
RK566AA-N10	C-87	RK599AC	C-82		
RK566AC	C-82	RK599AC-N5	C-88		
RK566AC-N5	C-87	RK599AC-N7.2	C-88		
RK566AC-N7.2	C-87	RK599AC-N10	C-88		
RK566AC-N10	C-87	RK599BA	C-82		
RK566BA	C-82	RK599BA-N5	C-88		
RK566BA-N5	C-87	RK599BA-N7.2	C-88		
RK566BA-N7.2	C-87	RK599BA-N10	C-88		
RK566BA-N10	C-87	RK599BC	C-82		
RK566BC	C-82	RK599BC-N5	C-88		
RK566BC-N5	C-87	RK599BC-N7.2	C-88		
RK566BC-N7.2	C-87	RK599BC-N10	C-88		
RK566BC-N10	C-87	RK5913AA	C-82		
RK569AA	C-82	RK5913AC	C-82		
RK569AC	C-82	RK5913BA	C-82		
RK569BA	C-82	RK5913BC	C-82		
RK569BC	C-82				
RK596AA	C-82				
RK596AA-T3.6	C-85				

Product Index

• Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page
SOL3U10	A-205
SOL4M6	A-205
SOL4U10	A-205
SOL5B-A	C-291
SOL5M8	A-206
SOL5UA	A-206
SOL6M8	A-206
SOT6	A-207

T

TB (Accessories)	
TB4-0608	A-216

U

UD (UMK Series Drivers)	
UDK2109A	C-160
UDK2112A	C-160
UDK2120A	C-160

UI	
UI2120G	C-242

UMK (UMK Series)	
UMK243AA	C-152
UMK243BA	C-152
UMK243MAA	C-153
UMK243MBA	C-153
UMK244AA	C-152
UMK244BA	C-152
UMK244MAA	C-153
UMK244MBA	C-153
UMK245AA	C-152
UMK245BA	C-152
UMK245MAA	C-153
UMK245MBA	C-153
UMK264AA	C-152
UMK264BA	C-152
UMK264MAA	C-153
UMK264MBA	C-153
UMK266AA	C-152
UMK266BA	C-152
UMK266MAA	C-153
UMK266MBA	C-153
UMK268AA	C-152
UMK268BA	C-152
UMK268MAA	C-153
UMK268MBA	C-153

US (US Series)	
US206-001U	B-116
US206-002E	B-116
US206-401U	B-116
US206-402E	B-116
US315-001U	B-116
US315-002E	B-116
US315-401U	B-116
US315-402E	B-116
US425-001U	B-116
US425-002E	B-116
US425-401U	B-116
US425-402E	B-116
US540-001U	B-116
US540-002E	B-116
US540-401U	B-116
US540-402E	B-116
US560-001U	B-116
US560-002E	B-116
US560-501U	B-116
US560-502E	B-116
US590-001U	B-116
US590-002E	B-116
US590-501U	B-116
US590-502E	B-116

USM (US Series Motor)	
USM206-001W	B-130
USM206-002W	B-130
USM206-401W	B-130
USM206-402W	B-130
USM315-001W	B-130
USM315-002W	B-130
USM315-401W	B-130
USM315-402W	B-130
USM425-001W	B-130
USM425-002W	B-130
USM425-401W	B-130
USM425-402W	B-130
USM540-001W	B-130
USM540-002W	B-130
USM540-401W	B-130
USM540-402W	B-130
USM560-001W	B-130
USM560-002W	B-130
USM560-501W	B-130
USM560-502W	B-130
USM590-001W	B-130
USM590-002W	B-130
USM590-501W	B-130
USM590-502W	B-130

USP (US Series Control Units)	
USP206-1U	B-130
USP206-2E	B-130
USP315-1U	B-130
USP315-2E	B-130
USP425-1U	B-130
USP425-2E	B-130

Model	Page
USP540-1U	B-130
USP540-2E	B-130
USP560-1U	B-130
USP560-2E	B-130
USP590-1U	B-130
USP590-2E	B-130

V

VH (V Series)	
VHI206A-120U	A-20
VHI206A-15U	A-20
VHI206A-180U	A-20
VHI206A-18U	A-20
VHI206A-300U	A-20
VHI206A-30U	A-20
VHI206A-360U	A-20
VHI206A-36U	A-20
VHI206A-5U	A-20
VHI206A-60U	A-20
VHI206A-6U	A-20
VHI206A-90U	A-20
VHI206A-9U	A-20
VHI206A-GV	A-23
VHI206C-120E	A-20
VHI206C-15E	A-20
VHI206C-180E	A-20
VHI206C-18E	A-20
VHI206C-300E	A-20
VHI206C-30E	A-20
VHI206C-360E	A-20
VHI206C-36E	A-20
VHI206C-5E	A-20
VHI206C-60E	A-20
VHI206C-6E	A-20
VHI206C-90E	A-20
VHI206C-9E	A-20
VHI206C-GV	A-23
VHI315A-120U	A-24
VHI315A-15U	A-24
VHI315A-180U	A-24
VHI315A-18U	A-24
VHI315A-300U	A-24
VHI315A-30U	A-24
VHI315A-360U	A-24
VHI315A-36U	A-24
VHI315A-5U	A-24
VHI315A-60U	A-24
VHI315A-6U	A-24
VHI315A-90U	A-24
VHI315A-9U	A-24
VHI315A-GV	A-27
VHI315C-120E	A-24
VHI315C-15E	A-24
VHI315C-180E	A-24
VHI315C-18E	A-24
VHI315C-300E	A-24
VHI315C-30E	A-24
VHI315C-360E	A-24
VHI315C-36E	A-24

Model	Page	Model	Page	Model	Page
VHI315C-5E	A-24	VHI425S-180	A-28	VHI540C-120E	A-34
VHI315C-60E	A-24	VHI425S-30	A-28	VHI540C-15E	A-34
VHI315C-6E	A-24	VHI425S-300	A-28	VHI540C-180E	A-34
VHI315C-90E	A-24	VHI425S-36	A-28	VHI540C-18E	A-34
VHI315C-9E	A-24	VHI425S-360	A-28	VHI540C-300E	A-34
VHI315C-GV	A-27	VHI425S-5	A-28	VHI540C-30E	A-34
VHI425A-120U	A-28	VHI425S-6	A-28	VHI540C-36E	A-34
VHI425A-15U	A-28	VHI425S-60	A-28	VHI540C-5E	A-34
VHI425A-180U	A-28	VHI425S-9	A-28	VHI540C-60E	A-34
VHI425A-18U	A-28	VHI425S-90	A-28	VHI540C-6E	A-34
VHI425A-300U	A-28	VHI425S-GV	A-33	VHI540C-90E	A-34
VHI425A-30U	A-28	VHI425SM-120	A-142	VHI540C-9E	A-34
VHI425A-360U	A-28	VHI425SM-15	A-142	VHI540C-GVH	A-39
VHI425A-36U	A-28	VHI425SM-18	A-142	VHI540CT-120E	A-34
VHI425A-5U	A-28	VHI425SM-180	A-142	VHI540CT-15E	A-34
VHI425A-60U	A-28	VHI425SM-30	A-142	VHI540CT-180E	A-34
VHI425A-6U	A-28	VHI425SM-300	A-142	VHI540CT-18E	A-34
VHI425A-90U	A-28	VHI425SM-36	A-142	VHI540CT-300E	A-34
VHI425A-9U	A-28	VHI425SM-360	A-142	VHI540CT-30E	A-34
VHI425A-GV	A-33	VHI425SM-5	A-142	VHI540CT-36E	A-34
VHI425AT-120U	A-28	VHI425SM-6	A-142	VHI540CT-5E	A-34
VHI425AT-15U	A-28	VHI425SM-60	A-142	VHI540CT-60E	A-34
VHI425AT-180U	A-28	VHI425SM-9	A-142	VHI540CT-6E	A-34
VHI425AT-18U	A-28	VHI425SM-90	A-142	VHI540CT-90E	A-34
VHI425AT-300U	A-28	VHI425SM-GV	A-146	VHI540CT-9E	A-34
VHI425AT-30U	A-28	VHI425ST-120	A-28	VHI540CT-GVH	A-39
VHI425AT-360U	A-28	VHI425ST-15	A-28	VHI540S-120	A-34
VHI425AT-36U	A-28	VHI425ST-18	A-28	VHI540S-15	A-34
VHI425AT-5U	A-28	VHI425ST-180	A-28	VHI540S-18	A-34
VHI425AT-60U	A-28	VHI425ST-30	A-28	VHI540S-180	A-34
VHI425AT-6U	A-28	VHI425ST-300	A-28	VHI540S-30	A-34
VHI425AT-90U	A-28	VHI425ST-36	A-28	VHI540S-300	A-34
VHI425AT-9U	A-28	VHI425ST-360	A-28	VHI540S-36	A-34
VHI425AT-GV	A-33	VHI425ST-5	A-28	VHI540S-5	A-34
VHI425C-120E	A-28	VHI425ST-6	A-28	VHI540S-6	A-34
VHI425C-15E	A-28	VHI425ST-60	A-28	VHI540S-60	A-34
VHI425C-180E	A-28	VHI425ST-9	A-28	VHI540S-9	A-34
VHI425C-18E	A-28	VHI425ST-90	A-28	VHI540S-90	A-34
VHI425C-300E	A-28	VHI425ST-GV	A-33	VHI540S-GVH	A-39
VHI425C-30E	A-28	VHI540A-120U	A-34	VHI540SM-120	A-147
VHI425C-360E	A-28	VHI540A-15U	A-34	VHI540SM-15	A-147
VHI425C-36E	A-28	VHI540A-180U	A-34	VHI540SM-18	A-147
VHI425C-5E	A-28	VHI540A-18U	A-34	VHI540SM-180	A-147
VHI425C-60E	A-28	VHI540A-300U	A-34	VHI540SM-30	A-147
VHI425C-6E	A-28	VHI540A-30U	A-34	VHI540SM-300	A-147
VHI425C-90E	A-28	VHI540A-36U	A-34	VHI540SM-36	A-147
VHI425C-9E	A-28	VHI540A-5U	A-34	VHI540SM-5	A-147
VHI425C-GV	A-33	VHI540A-60U	A-34	VHI540SM-6	A-147
VHI425CT-120E	A-28	VHI540A-6U	A-34	VHI540SM-60	A-147
VHI425CT-15E	A-28	VHI540A-90U	A-34	VHI540SM-9	A-147
VHI425CT-180E	A-28	VHI540A-9U	A-34	VHI540SM-90	A-147
VHI425CT-18E	A-28	VHI540A-GVH	A-39	VHI540SM-GVH	A-151
VHI425CT-300E	A-28	VHI540AT-120U	A-34	VHI540ST-120	A-34
VHI425CT-30E	A-28	VHI540AT-15U	A-34	VHI540ST-15	A-34
VHI425CT-360E	A-28	VHI540AT-180U	A-34	VHI540ST-18	A-34
VHI425CT-36E	A-28	VHI540AT-18U	A-34	VHI540ST-180	A-34
VHI425CT-5E	A-28	VHI540AT-300U	A-34	VHI540ST-180	A-34
VHI425CT-60E	A-28	VHI540AT-30U	A-34	VHI540ST-30	A-34
VHI425CT-6E	A-28	VHI540AT-36U	A-34	VHI540ST-300	A-34
VHI425CT-90E	A-28	VHI540AT-5U	A-34	VHI540ST-36	A-34
VHI425CT-9E	A-28	VHI540AT-60U	A-34	VHI540ST-5	A-34
VHI425CT-GV	A-33	VHI540AT-6U	A-34	VHI540ST-6	A-34
VHI425S-120	A-28	VHI540AT-6U	A-34	VHI540ST-60	A-34
VHI425S-15	A-28	VHI540AT-90U	A-34	VHI540ST-9	A-34
VHI425S-18	A-28	VHI540AT-9U	A-34	VHI540ST-90	A-34
		VHI540AT-GVH	A-39	VHI540ST-GVH	A-39

Safety Standards

List of Safety Standard Approved Products

ISO 9000/1/ ISO 14001

Global Power Supply Voltages

Product Line Updates

Product Index

Oriental Motor Corporate Overview

Oriental Motor Global Sales Network

Product Recommendation Information Sheet

Conversion Charts

Product Index

• Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page	Model	Page	Model	Page
VHI560A-120U	A-40	VHI560SM-120	A-152	VHI590CT-18E	A-47
VHI560A-15U	A-40	VHI560SM-15	A-152	VHI590CT-30E	A-47
VHI560A-180U	A-40	VHI560SM-18	A-152	VHI590CT-36E	A-47
VHI560A-18U	A-40	VHI560SM-180	A-152	VHI590CT-5E	A-47
VHI560A-300U	A-40	VHI560SM-30	A-152	VHI590CT-60E	A-47
VHI560A-30U	A-40	VHI560SM-300	A-152	VHI590CT-6E	A-47
VHI560A-36U	A-40	VHI560SM-36	A-152	VHI590CT-90E	A-47
VHI560A-5U	A-40	VHI560SM-5	A-152	VHI590CT-9E	A-47
VHI560A-60U	A-40	VHI560SM-6	A-152	VHI590CT-GVR	A-53
VHI560A-6U	A-40	VHI560SM-60	A-152	VHI590S-120	A-47
VHI560A-90U	A-40	VHI560SM-9	A-152	VHI590S-15	A-47
VHI560A-9U	A-40	VHI560SM-90	A-152	VHI590S-18	A-47
VHI560A-GVH	A-46	VHI560SM-GVH	A-156	VHI590S-180	A-47
VHI560AT-120U	A-40	VHI560ST-120	A-40	VHI590S-30	A-47
VHI560AT-15U	A-40	VHI560ST-15	A-40	VHI590S-36	A-47
VHI560AT-180U	A-40	VHI560ST-18	A-40	VHI590S-5	A-47
VHI560AT-18U	A-40	VHI560ST-180	A-40	VHI590S-6	A-47
VHI560AT-300U	A-40	VHI560ST-30	A-40	VHI590S-60	A-47
VHI560AT-30U	A-40	VHI560ST-300	A-40	VHI590S-9	A-47
VHI560AT-36U	A-40	VHI560ST-36	A-40	VHI590S-90	A-47
VHI560AT-5U	A-40	VHI560ST-5	A-40	VHI590S-GVR	A-53
VHI560AT-60U	A-40	VHI560ST-6	A-40	VHI590SM-120	A-157
VHI560AT-6U	A-40	VHI560ST-60	A-40	VHI590SM-15	A-157
VHI560AT-90U	A-40	VHI560ST-9	A-40	VHI590SM-18	A-157
VHI560AT-9U	A-40	VHI560ST-90	A-40	VHI590SM-180	A-157
VHI560AT-GVH	A-46	VHI560ST-GVH	A-46	VHI590SM-30	A-157
VHI560C-120E	A-40	VHI590A-120U	A-47	VHI590SM-36	A-157
VHI560C-15E	A-40	VHI590A-15U	A-47	VHI590SM-5	A-157
VHI560C-180E	A-40	VHI590A-180U	A-47	VHI590SM-6	A-157
VHI560C-18E	A-40	VHI590A-18U	A-47	VHI590SM-60	A-157
VHI560C-300E	A-40	VHI590A-18U	A-47	VHI590SM-9	A-157
VHI560C-30E	A-40	VHI590A-30U	A-47	VHI590SM-90	A-157
VHI560C-36E	A-40	VHI590A-36U	A-47	VHI590SM-GVR	A-162
VHI560C-5E	A-40	VHI590A-5U	A-47	VHI590ST-120	A-47
VHI560C-60E	A-40	VHI590A-60U	A-47	VHI590ST-15	A-47
VHI560C-6E	A-40	VHI590A-6U	A-47	VHI590ST-18	A-47
VHI560C-90E	A-40	VHI590A-90U	A-47	VHI590ST-180	A-47
VHI560C-9E	A-40	VHI590A-9U	A-47	VHI590ST-30	A-47
VHI560C-GVH	A-46	VHI590A-GVR	A-53	VHI590ST-36	A-47
VHI560CT-120E	A-40	VHI590AT-120U	A-47	VHI590ST-5	A-47
VHI560CT-15E	A-40	VHI590AT-15U	A-47	VHI590ST-6	A-47
VHI560CT-180E	A-40	VHI590AT-180U	A-47	VHI590ST-60	A-47
VHI560CT-18E	A-40	VHI590AT-18U	A-47	VHI590ST-9	A-47
VHI560CT-300E	A-40	VHI590AT-30U	A-47	VHI590ST-90	A-47
VHI560CT-30E	A-40	VHI590AT-36U	A-47	VHI590ST-GVR	A-53
VHI560CT-36E	A-40	VHI590AT-5U	A-47	VHR206A-120U	A-74
VHI560CT-5E	A-40	VHI590AT-60U	A-47	VHR206A-15U	A-74
VHI560CT-60E	A-40	VHI590AT-6U	A-47	VHR206A-180U	A-74
VHI560CT-6E	A-40	VHI590AT-90U	A-47	VHR206A-18U	A-74
VHI560CT-90E	A-40	VHI590AT-9U	A-47	VHR206A-300U	A-74
VHI560CT-9E	A-40	VHI590AT-GVR	A-53	VHR206A-30U	A-74
VHI560CT-GVH	A-46	VHI590C-120E	A-47	VHR206A-360U	A-74
VHI560S-120	A-40	VHI590C-15E	A-47	VHR206A-36U	A-74
VHI560S-15	A-40	VHI590C-180E	A-47	VHR206A-5U	A-74
VHI560S-18	A-40	VHI590C-18E	A-47	VHR206A-60U	A-74
VHI560S-180	A-40	VHI590C-30E	A-47	VHR206A-6U	A-74
VHI560S-30	A-40	VHI590C-36E	A-47	VHR206A-90U	A-74
VHI560S-300	A-40	VHI590C-5E	A-47	VHR206A-9U	A-74
VHI560S-36	A-40	VHI590C-60E	A-47	VHR206A-GV	A-77
VHI560S-5	A-40	VHI590C-6E	A-47	VHR206AM-120U	A-132
VHI560S-6	A-40	VHI590C-90E	A-47	VHR206AM-15U	A-132
VHI560S-60	A-40	VHI590C-9E	A-47	VHR206AM-180U	A-132
VHI560S-9	A-40	VHI590C-GVR	A-53	VHR206AM-18U	A-132
VHI560S-90	A-40	VHI590CT-120E	A-47	VHR206AM-300U	A-132
VHI560S-GVH	A-46	VHI590CT-15E	A-47	VHR206AM-30U	A-132
		VHI590CT-180E	A-47		

Model	Page	Model	Page	Model	Page
VHR206AM-360U	A-132	VHR315C-15E	A-78	VHR425AT-6U	A-82
VHR206AM-36U	A-132	VHR315C-180E	A-78	VHR425AT-90U	A-82
VHR206AM-5U	A-132	VHR315C-18E	A-78	VHR425AT-9U	A-82
VHR206AM-60U	A-132	VHR315C-300E	A-78	VHR425AT-GV.....	A-86
VHR206AM-6U	A-132	VHR315C-30E	A-78	VHR425C-120E	A-82
VHR206AM-90U	A-132	VHR315C-360E	A-78	VHR425C-15E	A-82
VHR206AM-9U	A-132	VHR315C-36E	A-78	VHR425C-180E	A-82
VHR206AM-GV.....	A-136	VHR315C-5E	A-78	VHR425C-18E	A-82
VHR206C-120E	A-74	VHR315C-60E	A-78	VHR425C-300E	A-82
VHR206C-15E	A-74	VHR315C-6E	A-78	VHR425C-30E	A-82
VHR206C-180E	A-74	VHR315C-90E	A-78	VHR425C-360E	A-82
VHR206C-18E	A-74	VHR315C-9E	A-78	VHR425C-36E	A-82
VHR206C-300E	A-74	VHR315C-GV.....	A-81	VHR425C-5E	A-82
VHR206C-30E	A-74	VHR315CM-120E	A-137	VHR425C-60E	A-82
VHR206C-360E	A-74	VHR315CM-15E	A-137	VHR425C-6E	A-82
VHR206C-36E	A-74	VHR315CM-180E	A-137	VHR425C-90E	A-82
VHR206C-5E	A-74	VHR315CM-18E	A-137	VHR425C-9E	A-82
VHR206C-60E	A-74	VHR315CM-300E	A-137	VHR425C-GV.....	A-86
VHR206C-6E	A-74	VHR315CM-30E	A-137	VHR425CM-120E	A-142
VHR206C-90E	A-74	VHR315CM-360E	A-137	VHR425CM-15E	A-142
VHR206C-9E	A-74	VHR315CM-36E	A-137	VHR425CM-180E	A-142
VHR206C-GV.....	A-77	VHR315CM-5E	A-137	VHR425CM-18E	A-142
VHR206CM-120E	A-132	VHR315CM-60E	A-137	VHR425CM-300E	A-142
VHR206CM-15E	A-132	VHR315CM-6E	A-137	VHR425CM-30E	A-142
VHR206CM-180E	A-132	VHR315CM-90E	A-137	VHR425CM-360E	A-142
VHR206CM-18E	A-132	VHR315CM-9E	A-137	VHR425CM-36E	A-142
VHR206CM-300E	A-132	VHR315CM-GV.....	A-141	VHR425CM-5E	A-142
VHR206CM-30E	A-132	VHR425A-120U	A-82	VHR425CM-60E	A-142
VHR206CM-360E	A-132	VHR425A-15U	A-82	VHR425CM-6E	A-142
VHR206CM-36E	A-132	VHR425A-180U	A-82	VHR425CM-90E	A-142
VHR206CM-5E	A-132	VHR425A-18U	A-82	VHR425CM-9E	A-142
VHR206CM-60E	A-132	VHR425A-300U	A-82	VHR425CM-GV.....	A-146
VHR206CM-6E	A-132	VHR425A-30U	A-82	VHR425CT-120E	A-82
VHR206CM-90E	A-132	VHR425A-360U	A-82	VHR425CT-15E	A-82
VHR206CM-9E	A-132	VHR425A-36U	A-82	VHR425CT-180E	A-82
VHR206CM-GV.....	A-136	VHR425A-5U	A-82	VHR425CT-18E	A-82
VHR315A-120U	A-78	VHR425A-60U	A-82	VHR425CT-300E	A-82
VHR315A-15U	A-78	VHR425A-6U	A-82	VHR425CT-30E	A-82
VHR315A-180U	A-78	VHR425A-90U	A-82	VHR425CT-360E	A-82
VHR315A-18U	A-78	VHR425A-9U	A-82	VHR425CT-36E	A-82
VHR315A-300U	A-78	VHR425A-GV.....	A-86	VHR425CT-5E	A-82
VHR315A-30U	A-78	VHR425AM-120U	A-142	VHR425CT-60E	A-82
VHR315A-360U	A-78	VHR425AM-15U	A-142	VHR425CT-6E	A-82
VHR315A-36U	A-78	VHR425AM-180U	A-142	VHR425CT-90E	A-82
VHR315A-5U	A-78	VHR425AM-18U	A-142	VHR425CT-9E	A-82
VHR315A-60U	A-78	VHR425AM-300U	A-142	VHR425CT-GV.....	A-86
VHR315A-6U	A-78	VHR425AM-30U	A-142	VHR540A-120U	A-87
VHR315A-90U	A-78	VHR425AM-360U	A-142	VHR540A-15U	A-87
VHR315A-9U	A-78	VHR425AM-36U	A-142	VHR540A-180U	A-87
VHR315A-GV.....	A-81	VHR425AM-5U	A-142	VHR540A-18U	A-87
VHR315AM-120U	A-137	VHR425AM-60U	A-142	VHR540A-300U	A-87
VHR315AM-15U	A-137	VHR425AM-6U	A-142	VHR540A-30U	A-87
VHR315AM-180U	A-137	VHR425AM-90U	A-142	VHR540A-36U	A-87
VHR315AM-18U	A-137	VHR425AM-9U	A-142	VHR540A-5U	A-87
VHR315AM-300U	A-137	VHR425AM-GV.....	A-146	VHR540A-60U	A-87
VHR315AM-30U	A-137	VHR425AT-120U	A-82	VHR540A-6U	A-87
VHR315AM-360U	A-137	VHR425AT-15U	A-82	VHR540A-90U	A-87
VHR315AM-36U	A-137	VHR425AT-180U	A-82	VHR540A-9U	A-87
VHR315AM-5U	A-137	VHR425AT-18U	A-82	VHR540A-GVH.....	A-91
VHR315AM-60U	A-137	VHR425AT-300U	A-82	VHR540AM-120U	A-147
VHR315AM-6U	A-137	VHR425AT-30U	A-82	VHR540AM-15U	A-147
VHR315AM-90U	A-137	VHR425AT-360U	A-82	VHR540AM-180U	A-147
VHR315AM-9U	A-137	VHR425AT-36U	A-82	VHR540AM-18U	A-147
VHR315AM-GV.....	A-141	VHR425AT-5U	A-82	VHR540AM-300U	A-147
VHR315C-120E	A-78	VHR425AT-60U	A-82	VHR540AM-30U	A-147

Safety Standards

List of Safety Standard Approved Products

ISO 9000/1/ ISO 14001

Global Power Supply Voltages

Product Line Updates

Product Index

Oriental Motor Corporate Overview

Oriental Motor Global Sales Network

Product Recommendation Information Sheet

Conversion Charts

Product Index

• Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page	Model	Page	Model	Page
VHR540AM-36U	A-147	VHR560A-36U	A-92	VHR560CT-36E	A-92
VHR540AM-5U	A-147	VHR560A-5U	A-92	VHR560CT-5E	A-92
VHR540AM-60U	A-147	VHR560A-60U	A-92	VHR560CT-60E	A-92
VHR540AM-6U	A-147	VHR560A-6U	A-92	VHR560CT-6E	A-92
VHR540AM-90U	A-147	VHR560A-90U	A-92	VHR560CT-90E	A-92
VHR540AM-9U	A-147	VHR560A-9U	A-92	VHR560CT-9E	A-92
VHR540AM-GVH	A-151	VHR560A-GVH	A-96	VHR560CT-GVH	A-96
VHR540AT-120U	A-87	VHR560AM-120U	A-152	VHR590A-120U	A-97
VHR540AT-15U	A-87	VHR560AM-15U	A-152	VHR590A-15U	A-97
VHR540AT-180U	A-87	VHR560AM-15U	A-152	VHR590A-180U	A-97
VHR540AT-18U	A-87	VHR560AM-18U	A-152	VHR590A-18U	A-97
VHR540AT-300U	A-87	VHR560AM-300U	A-152	VHR590A-30U	A-97
VHR540AT-30U	A-87	VHR560AM-30U	A-152	VHR590A-36U	A-97
VHR540AT-36U	A-87	VHR560AM-36U	A-152	VHR590A-5U	A-97
VHR540AT-5U	A-87	VHR560AM-5U	A-152	VHR590A-60U	A-97
VHR540AT-60U	A-87	VHR560AM-60U	A-152	VHR590A-6U	A-97
VHR540AT-6U	A-87	VHR560AM-6U	A-152	VHR590A-90U	A-97
VHR540AT-90U	A-87	VHR560AM-90U	A-152	VHR590A-9U	A-97
VHR540AT-9U	A-87	VHR560AM-9U	A-152	VHR590A-GVR	A-102
VHR540AT-GVH	A-91	VHR560AM-GVH	A-156	VHR590AM-120U	A-157
VHR540C-120E	A-87	VHR560AT-120U	A-92	VHR590AM-15U	A-157
VHR540C-15E	A-87	VHR560AT-15U	A-92	VHR590AM-180U	A-157
VHR540C-180E	A-87	VHR560AT-180U	A-92	VHR590AM-18U	A-157
VHR540C-18E	A-87	VHR560AT-18U	A-92	VHR590AM-30U	A-157
VHR540C-300E	A-87	VHR560AT-300U	A-92	VHR590AM-36U	A-157
VHR540C-30E	A-87	VHR560AT-30U	A-92	VHR590AM-5U	A-157
VHR540C-36E	A-87	VHR560AT-36U	A-92	VHR590AM-60U	A-157
VHR540C-5E	A-87	VHR560AT-5U	A-92	VHR590AM-6U	A-157
VHR540C-60E	A-87	VHR560AT-60U	A-92	VHR590AM-90U	A-157
VHR540C-6E	A-87	VHR560AT-6U	A-92	VHR590AM-9U	A-157
VHR540C-90E	A-87	VHR560AT-90U	A-92	VHR590AM-GVR	A-162
VHR540C-9E	A-87	VHR560AT-9U	A-92	VHR590AT-120U	A-97
VHR540C-GVH	A-91	VHR560AT-GVH	A-96	VHR590AT-15U	A-97
VHR540CM-120E	A-147	VHR560C-120E	A-92	VHR590AT-180U	A-97
VHR540CM-15E	A-147	VHR560C-15E	A-92	VHR590AT-18U	A-97
VHR540CM-180E	A-147	VHR560C-180E	A-92	VHR590AT-30U	A-97
VHR540CM-18E	A-147	VHR560C-18E	A-92	VHR590AT-36U	A-97
VHR540CM-300E	A-147	VHR560C-300E	A-92	VHR590AT-5U	A-97
VHR540CM-30E	A-147	VHR560C-30E	A-92	VHR590AT-60U	A-97
VHR540CM-36E	A-147	VHR560C-36E	A-92	VHR590AT-6U	A-97
VHR540CM-5E	A-147	VHR560C-5E	A-92	VHR590AT-90U	A-97
VHR540CM-60E	A-147	VHR560C-60E	A-92	VHR590AT-9U	A-97
VHR540CM-6E	A-147	VHR560C-6E	A-92	VHR590AT-GVR	A-102
VHR540CM-90E	A-147	VHR560C-90E	A-92	VHR590C-120E	A-97
VHR540CM-9E	A-147	VHR560C-9E	A-92	VHR590C-15E	A-97
VHR540CM-GVH	A-151	VHR560C-GVH	A-96	VHR590C-180E	A-97
VHR540CT-120E	A-87	VHR560CM-120E	A-152	VHR590C-18E	A-97
VHR540CT-15E	A-87	VHR560CM-15E	A-152	VHR590C-30E	A-97
VHR540CT-180E	A-87	VHR560CM-180E	A-152	VHR590C-36E	A-97
VHR540CT-18E	A-87	VHR560CM-18E	A-152	VHR590C-5E	A-97
VHR540CT-300E	A-87	VHR560CM-300E	A-152	VHR590C-60E	A-97
VHR540CT-30E	A-87	VHR560CM-30E	A-152	VHR590C-6E	A-97
VHR540CT-36E	A-87	VHR560CM-36E	A-152	VHR590C-90E	A-97
VHR540CT-5E	A-87	VHR560CM-5E	A-152	VHR590C-9E	A-97
VHR540CT-60E	A-87	VHR560CM-60E	A-152	VHR590C-GVR	A-102
VHR540CT-6E	A-87	VHR560CM-6E	A-152	VHR590CM-120E	A-157
VHR540CT-90E	A-87	VHR560CM-90E	A-152	VHR590CM-15E	A-157
VHR540CT-9E	A-87	VHR560CM-9E	A-152	VHR590CM-180E	A-157
VHR540CT-GVH	A-91	VHR560CM-GVH	A-156	VHR590CM-18E	A-157
VHR560A-120U	A-92	VHR560CT-120E	A-92	VHR590CM-30E	A-157
VHR560A-15U	A-92	VHR560CT-15E	A-92	VHR590CM-36E	A-157
VHR560A-180U	A-92	VHR560CT-180E	A-92	VHR590CM-5E	A-157
VHR560A-18U	A-92	VHR560CT-18E	A-92	VHR590CM-60E	A-157
VHR560A-300U	A-92	VHR560CT-300E	A-92	VHR590CM-6E	A-157
VHR560A-30U	A-92	VHR560CT-30E	A-92	VHR590CM-90E	A-157

Model	Page
VHR590CM-9E	A-157
VHR590CM-GVR	A-162
VHR590CT-120E	A-97
VHR590CT-15E	A-97
VHR590CT-180E	A-97
VHR590CT-18E	A-97
VHR590CT-30E	A-97
VHR590CT-36E	A-97
VHR590CT-5E	A-97
VHR590CT-60E	A-97
VHR590CT-6E	A-97
VHR590CT-90E	A-97
VHR590CT-9E	A-97
VHR590CT-GVR	A-102

Model	Page
VSI315C-30E	B-89
VSI315C-360E	B-89
VSI315C-36E	B-89
VSI315C-5E	B-89
VSI315C-60E	B-89
VSI315C-6E	B-89
VSI315C-90E	B-89
VSI315C-9E	B-89
VSI315C-GV	B-115
VSI425A-120U	B-89
VSI425A-15U	B-89
VSI425A-180U	B-89
VSI425A-18U	B-89
VSI425A-300U	B-89
VSI425A-30U	B-89
VSI425A-360U	B-89
VSI425A-36U	B-89
VSI425A-5U	B-89
VSI425A-60U	B-89
VSI425A-6U	B-89
VSI425A-90U	B-89
VSI425A-9U	B-89
VSI425A-GV	B-115
VSI425C-120E	B-89
VSI425C-15E	B-89
VSI425C-180E	B-89
VSI425C-18E	B-89
VSI425C-300E	B-89
VSI425C-30E	B-89
VSI425C-360E	B-89
VSI425C-36E	B-89
VSI425C-5E	B-89
VSI425C-60E	B-89
VSI425C-6E	B-89
VSI425C-90E	B-89
VSI425C-9E	B-89
VSI425C-GV	B-115
VSI40A-120U	B-89
VSI40A-15U	B-89
VSI40A-180U	B-89
VSI40A-18U	B-89
VSI40A-300U	B-89
VSI40A-30U	B-89
VSI40A-36U	B-89
VSI40A-5U	B-89
VSI40A-60U	B-89
VSI40A-6U	B-89
VSI40A-90U	B-89
VSI40A-9U	B-89
VSI40A-GVH	B-115
VSI40C-120E	B-89
VSI40C-15E	B-89
VSI40C-180E	B-89
VSI40C-18E	B-89
VSI40C-300E	B-89
VSI40C-30E	B-89
VSI40C-36E	B-89
VSI40C-5E	B-89
VSI40C-60E	B-89
VSI40C-6E	B-89
VSI40C-90E	B-89
VSI40C-9E	B-89
VSI40C-GVH	B-115
VSI560A-120U	B-89
VSI560A-15U	B-89

Model	Page
VSI560A-180U	B-89
VSI560A-18U	B-89
VSI560A-300U	B-89
VSI560A-30U	B-89
VSI560A-36U	B-89
VSI560A-5U	B-89
VSI560A-60U	B-89
VSI560A-6U	B-89
VSI560A-90U	B-89
VSI560A-9U	B-89
VSI560A-GVH	B-115
VSI560C-120E	B-89
VSI560C-15E	B-89
VSI560C-180E	B-89
VSI560C-18E	B-89
VSI560C-300E	B-89
VSI560C-30U	B-89
VSI560C-36E	B-89
VSI560C-5E	B-89
VSI560C-60E	B-89
VSI560C-6E	B-89
VSI560C-90E	B-89
VSI560C-9E	B-89
VSI560C-GVH	B-115
VSI590A-120U	B-89
VSI590A-15U	B-89
VSI590A-180U	B-89
VSI590A-18U	B-89
VSI590A-30U	B-89
VSI590A-36U	B-89
VSI590A-5U	B-89
VSI590A-60U	B-89
VSI590A-6U	B-89
VSI590A-90U	B-89
VSI590A-9U	B-89
VSI590A-GVR	B-115
VSI590C-120E	B-89
VSI590C-15E	B-89
VSI590C-180E	B-89
VSI590C-18E	B-89
VSI590C-30E	B-89
VSI590C-36E	B-89
VSI590C-5E	B-89
VSI590C-60E	B-89
VSI590C-6E	B-89
VSI590C-90E	B-89
VSI590C-9E	B-89
VSI590C-GVR	B-115

VSI (V Series)	
VSI206A-120U	B-89
VSI206A-15U	B-89
VSI206A-180U	B-89
VSI206A-18U	B-89
VSI206A-300U	B-89
VSI206A-30U	B-89
VSI206A-360U	B-89
VSI206A-36U	B-89
VSI206A-5U	B-89
VSI206A-60U	B-89
VSI206A-6U	B-89
VSI206A-90U	B-89
VSI206A-9U	B-89
VSI206A-GV	B-115
VSI206C-120E	B-89
VSI206C-15E	B-89
VSI206C-180E	B-89
VSI206C-18E	B-89
VSI206C-300E	B-89
VSI206C-30E	B-89
VSI206C-360E	B-89
VSI206C-36E	B-89
VSI206C-5E	B-89
VSI206C-60E	B-89
VSI206C-6E	B-89
VSI206C-90E	B-89
VSI206C-9E	B-89
VSI206C-GV	B-115
VSI315A-120U	B-89
VSI315A-15U	B-89
VSI315A-180U	B-89
VSI315A-18U	B-89
VSI315A-300U	B-89
VSI315A-30U	B-89
VSI315A-360U	B-89
VSI315A-36U	B-89
VSI315A-5U	B-89
VSI315A-60U	B-89
VSI315A-6U	B-89
VSI315A-90U	B-89
VSI315A-9U	B-89
VSI315A-GV	B-115
VSI315C-120E	B-89
VSI315C-15E	B-89
VSI315C-180E	B-89
VSI315C-18E	B-89
VSI315C-300E	B-89

VSR (V Series)	
VSR206A-120U	B-89
VSR206A-15U	B-89
VSR206A-180U	B-89
VSR206A-18U	B-89
VSR206A-300U	B-89
VSR206A-30U	B-89
VSR206A-360U	B-89
VSR206A-36U	B-89
VSR206A-5U	B-89
VSR206A-60U	B-89
VSR206A-6U	B-89
VSR206A-90U	B-89
VSR206A-9U	B-89

Product Index

● Products in regular font represent component parts of package or combination type models (motors, drivers, gearheads, etc.).

Model	Page	Model	Page	Model	Page
VSR206A-GV	B-115	VSR425C-5E	B-89	VSR590A-60U	B-89
VSR206C-120E	B-89	VSR425C-60E	B-89	VSR590A-6U	B-89
VSR206C-15E	B-89	VSR425C-6E	B-89	VSR590A-90U	B-89
VSR206C-180E	B-89	VSR425C-90E	B-89	VSR590A-9U	B-89
VSR206C-18E	B-89	VSR425C-9E	B-89	VSR590A-GVR	B-115
VSR206C-300E	B-89	VSR425C-GV	B-115	VSR590C-120E	B-89
VSR206C-30E	B-89	VSR540A-120U	B-89	VSR590C-15E	B-89
VSR206C-360E	B-89	VSR540A-15U	B-89	VSR590C-180E	B-89
VSR206C-36E	B-89	VSR540A-180U	B-89	VSR590C-18E	B-89
VSR206C-5E	B-89	VSR540A-18U	B-89	VSR590C-30E	B-89
VSR206C-60E	B-89	VSR540A-300U	B-89	VSR590C-36E	B-89
VSR206C-6E	B-89	VSR540A-30U	B-89	VSR590C-5E	B-89
VSR206C-90E	B-89	VSR540A-36U	B-89	VSR590C-60E	B-89
VSR206C-9E	B-89	VSR540A-5U	B-89	VSR590C-6E	B-89
VSR206C-GV	B-115	VSR540A-60U	B-89	VSR590C-90E	B-89
VSR315A-120U	B-89	VSR540A-6U	B-89	VSR590C-9E	B-89
VSR315A-15U	B-89	VSR540A-90U	B-89	VSR590C-GVR	B-115
VSR315A-180U	B-89	VSR540A-9U	B-89		
VSR315A-18U	B-89	VSR540A-GVH	B-115		
VSR315A-300U	B-89	VSR540C-120E	B-89		
VSR315A-30U	B-89	VSR540C-15E	B-89		
VSR315A-360U	B-89	VSR540C-180E	B-89		
VSR315A-36U	B-89	VSR540C-18E	B-89		
VSR315A-5U	B-89	VSR540C-300E	B-89		
VSR315A-60U	B-89	VSR540C-30E	B-89		
VSR315A-6U	B-89	VSR540C-36E	B-89		
VSR315A-90U	B-89	VSR540C-5E	B-89		
VSR315A-9U	B-89	VSR540C-60E	B-89		
VSR315A-GV	B-115	VSR540C-6E	B-89		
VSR315C-120E	B-89	VSR540C-90E	B-89		
VSR315C-15E	B-89	VSR540C-9E	B-89		
VSR315C-180E	B-89	VSR540C-GVH	B-115		
VSR315C-18E	B-89	VSR560A-120U	B-89		
VSR315C-300E	B-89	VSR560A-15U	B-89		
VSR315C-30E	B-89	VSR560A-180U	B-89		
VSR315C-360E	B-89	VSR560A-18U	B-89		
VSR315C-36E	B-89	VSR560A-300U	B-89		
VSR315C-5E	B-89	VSR560A-30U	B-89		
VSR315C-60E	B-89	VSR560A-36U	B-89		
VSR315C-6E	B-89	VSR560A-5U	B-89		
VSR315C-90E	B-89	VSR560A-60U	B-89		
VSR315C-9E	B-89	VSR560A-6U	B-89		
VSR315C-GV	B-115	VSR560A-90U	B-89		
VSR425A-120U	B-89	VSR560A-9U	B-89		
VSR425A-15U	B-89	VSR560A-GVH	B-115		
VSR425A-180U	B-89	VSR560C-120E	B-89		
VSR425A-18U	B-89	VSR560C-15E	B-89		
VSR425A-300U	B-89	VSR560C-180E	B-89		
VSR425A-30U	B-89	VSR560C-18E	B-89		
VSR425A-360U	B-89	VSR560C-300E	B-89		
VSR425A-36U	B-89	VSR560C-30E	B-89		
VSR425A-5U	B-89	VSR560C-36E	B-89		
VSR425A-60U	B-89	VSR560C-5E	B-89		
VSR425A-6U	B-89	VSR560C-60E	B-89		
VSR425A-90U	B-89	VSR560C-6E	B-89		
VSR425A-9U	B-89	VSR560C-90E	B-89		
VSR425A-GV	B-115	VSR560C-9E	B-89		
VSR425C-120E	B-89	VSR560C-GVH	B-115		
VSR425C-15E	B-89	VSR590A-120U	B-89		
VSR425C-180E	B-89	VSR590A-15U	B-89		
VSR425C-18E	B-89	VSR590A-180U	B-89		
VSR425C-300E	B-89	VSR590A-18U	B-89		
VSR425C-30E	B-89	VSR590A-30U	B-89		
VSR425C-360E	B-89	VSR590A-36U	B-89		
VSR425C-36E	B-89	VSR590A-5U	B-89		

Oriental Motor Corporate Overview

Oriental Motor Co., Ltd.
 Founded: 1885
 Incorporated: 1950
 President: Yoshio Kuraishi
 Capital: 4,000 Million Yen
 Sales for 2003 (March, 2004): 39,480 Million Yen
 Number of Employees (March, 2004): 1,920
 Company Activities: Manufacture and sale of small electric motors, motion control systems and fans
 Major Banks: The Sumitomo Mitsui Banking Corporation
 The Chiba Bank, Ltd.
 The Mizuho Bank, Ltd.
 The Hyakujushi Bank, Ltd.
 The Shonai Bank, Ltd.
 The Toho Bank, Ltd.
 The Akita Bank, Ltd.
 Head Office: 6-16-17, Ueno, Taito-ku, Tokyo, Japan

Technical Centers: R & D Center
 Kofu R & D Center
 Manufacturing Technology Center

Plants: Tsuruoka-Chuo Plant
 Tsuruoka-Nishi Plant
 Tsuruoka-Higashi Plant
 Soma Plant
 Tsuchiura Plant
 Kashiwa Plant
 Takamatsu Plant
 Takamatsu Kozai Plant



Safety Standards

List of Safety Standard Approved Products

ISO 9001/ ISO 14001

Global Power Supply Voltagas

Product Line Updates

Product Index

Oriental Motor Corporate Overview

Oriental Motor Global Sales Network

Product Recommendation Information Sheets

Conversion Charts

Oriental Motor Global Sales Network

Oriental Motor has a direct sales network with subsidiaries in North America, Europe, and Asia, offering a wide variety of products. The establishment of plants globally enables Oriental Motor to meet local demand, service its products, and upgrade customer equipment. Oriental Motor customers can always find local support.



Sales Offices in North America

ORIENTAL MOTOR U.S.A. CORP.

HEADQUARTERS

2580 West 237th St.
Torrance, California 90505-5217
TEL : (310)325-0040 FAX : (310)515-2879

WESTERN SALES AND CUSTOMER SERVICE CENTER

TEL : (310)784-8200 FAX : (310)325-1076

DALLAS OFFICE

TEL : (214)432-3386

DENVER OFFICE

TEL : (303)202-5111

LOS ANGELES OFFICE

TEL : (310)784-8200

SAN JOSE OFFICE

TEL : (408)392-9735

MIDWEST SALES AND CUSTOMER SERVICE CENTER

TEL : (847)285-5100 FAX : (847)843-4121

CHICAGO OFFICE

TEL : (847)285-5100

TORONTO OFFICE

TEL : (905)502-5333

EASTERN SALES AND CUSTOMER SERVICE CENTER

TEL : (781)848-2426 FAX : (781)848-2617

ATLANTA OFFICE

TEL : (770)716-2800

BOSTON OFFICE

TEL : (781)848-2426

NEW YORK OFFICE

TEL : (973)359-1100

● Technical Support

TEL : (800)468-3982

E-mail : techsupport@orientalmotor.com

● Japanese Customer Support Center

TEL : (800)746-6872

E-mail : j-support@orientalmotor.com

Sales Offices in Europe

ORIENTAL MOTOR (EUROPA) GmbH

EUROPEAN HEADQUARTERS & DÜSSELDORF OFFICE

Schiesstraße 74
40549 Düsseldorf, Germany
TEL : +49-211-5206700 FAX : +49-211-52067099

MUNICH OFFICE

TEL : +49-8131-59880 FAX : +49-8131-598888

HAMBURG OFFICE

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STUTTGART OFFICE

TEL : +49-7335-924853 FAX : +49-7335-924854

ORIENTAL MOTOR (UK) LTD.

Unit 5 Faraday Office Park,
Rankine Road, Basingstoke
Hampshire RG24 8AH, U.K.
TEL : +44-1256-347090 FAX : +44-1256-347099

ORIENTAL MOTOR (FRANCE) SARL

FRANCE HEADQUARTERS
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92733 Naterre Cedex, France
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LYON OFFICE

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ORIENTAL MOTOR ITALIA s.r.l.

ITALY HEADQUARTERS
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20017 Mazzo di Rho (MI), Italy
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BOLOGNA OFFICE

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● In addition, there are Oriental Motor distributors in the Netherlands, Switzerland, Belgium, Portugal, Finland, Sweden, Denmark, Austria, Spain, Greek, Israel and South Africa.

Sales Offices in Asia

TAIWAN ORIENTAL MOTOR CO., LTD.

HEADQUARTERS and TAIPEI OFFICE

5F No. 716, Jung jeng Rd., Jung he City, Taipei Hsien, Taiwan 235, R.O.C.
TEL : +886-2-8228-0707 FAX : +886-2-8228-0708

HSINCHU OFFICE

TEL : +886-3-658-5670 FAX : +886-3-658-5671

TAICHUN OFFICE

TEL : +886-4-2471-4600 FAX : +886-4-2471-4601

KAOHSIUNG OFFICE

TEL : +886-7-550-6015 FAX : +886-7-550-6016

SINGAPORE ORIENTAL MOTOR PTE LTD

31 Kaki Bukit Road 3, #04-02/04 TECHLINK,
Singapore 417818
TEL : +65-6745-7344 FAX : +65-6745-9405

ORIENTAL MOTOR (MALAYSIA) SDN. BHD.

HEADQUARTERS and KUALA LUMPUR OFFICE

A-13-1, North Point Offices, Mid Valley City,
No.1 Medan Syed Putra Utara 59200
Kuala Lumpur, Malaysia
TEL : +60-3-22875778 FAX : +60-3-22875528

PENANG OFFICE

TEL : +60-4-6423788 FAX : +60-4-6425788

ORIENTAL MOTOR (THAILAND) CO., LTD.

161, Nantawan Bldg., 10th Fl., Room 1003,
Ratchadamri Road, Lumpinee, Pathumwan
Bangkok 10330 Thailand
TEL : +66-2-254-6113 FAX : +66-2-254-6114

INA ORIENTAL MOTOR CO., LTD.

144B-9L, Namdong Industrial Complex 716-8,
Gojan-Dong, Namdong-Gu, Incheon, Korea
TEL : +82-32-819-8721 FAX : +82-32-819-8671

ORIENTAL MOTOR SHANGHAI CO., LTD.

Room 02, 11/F, Kirin Plaza Building, No.666,
Gubei Rd., Shanghai, P.R. China P.C.200336
TEL : +86-21-6237-5440 FAX : +86-21-6237-5433

ORIENTAL MOTOR CO., LTD

HONG KONG BRANCH

Unit 3604, 36/F, Metroplaza, Tower2, 223 Hing Fong Road,
Kwai Fong, N.T., Hong Kong
TEL : +852-2427-9800 FAX : +852-2427-9311

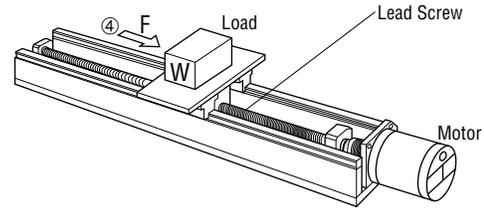
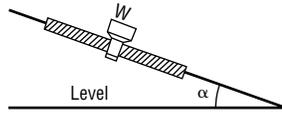
ORIENTAL MOTOR CO., LTD.

6-16-17 Ueno Taito-ku Tokyo 110-8536 Japan
TEL : +81-3-3835-0684 FAX : +81-3-3835-1890

● In addition, there are Oriental Motor distributors in the Philippines, Thailand, Indonesia, India and Australia.

Product Recommendation Information Sheet

Lead Screw Application Information



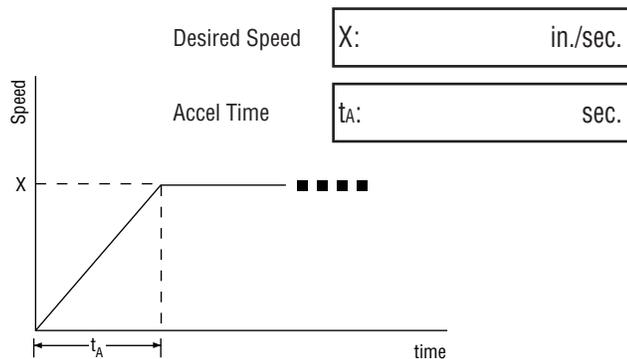
Move l Distance Within t Time

① Move Distance	l :	in.
② Time to Make Move	t :	sec.
③ Maximum Linear Speed	v :	in./sec.
④ Push/Pull Force Push Opposes, Pull Helps	F :	lb.
⑤ Stopping Accuracy	\pm :	in.
⑥ Work+Table Weight	W :	lb.
⑦ Screw Angle	α :	deg

⑧ Distance per Pulse (Step Motor)	Δl :	in.
⑨ Stop Time	t' :	sec.
⑩ Screw Diameter	D_B :	in.
⑪ Screw Length	L_B :	in.
⑫ Screw Pitch	P_B :	in./rev
⑬ Screw Efficiency	η :	%
⑭ Gear Ratio (If Applicable)	N :	_____ : 1 _____

Alternate Motion Profile

Be at X Speed Within t Time



Additional Information or Alternate Profile:

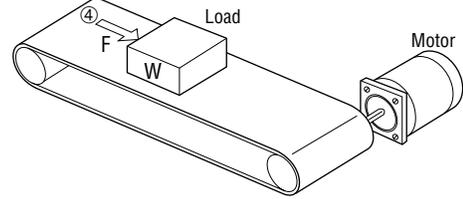
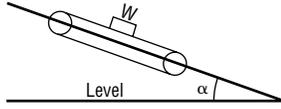
Customer Information

Name/Title: _____	TEL: _____	EXT: _____
Company: _____	FAX: _____	
Address: _____	Application: _____	
City/State/Zip: _____		

Please fill out as completely as possible and fax toll free: **1-800-309-7999**

Product Recommendation Information Sheet

■ Belt and Pulley Application



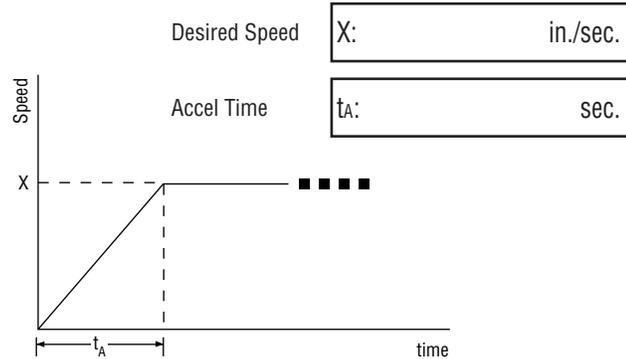
Move ℓ Distance Within t Time

① Move Distance	ℓ :	in.
② Time to Make Move	t :	sec.
③ Maximum Linear Speed	v :	in./sec.
④ Push/Pull Force Push Opposes, Pull Helps	F :	lb.
⑤ Stopping Accuracy	\pm :	in.
⑥ Work+ Table Weight	W :	lb.

⑦ Screw Angle	α :	deg
⑧ Distance per Pulse (Step Motor)	$\Delta \ell$:	in.
⑨ Stop Time	t' :	sec.
⑩ Pulley Diameter	DP :	in.
⑪ Pulley Weight	WP :	lb.

■ Alternate Motion Profile

Be at X Speed Within t Time



Additional Information or Alternate Profile:

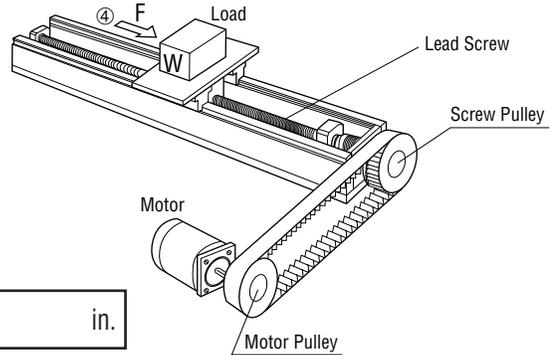
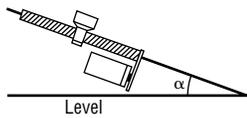
■ Customer Information

Name/Title: _____	TEL: _____ EXT: _____
Company: _____	FAX: _____
Address: _____	Application: _____
City/State/Zip: _____	_____

Please fill out as completely as possible and fax toll free: **1-800-309-7999**

Product Recommendation Information Sheet

■ Belt/Lead Screw Application Information

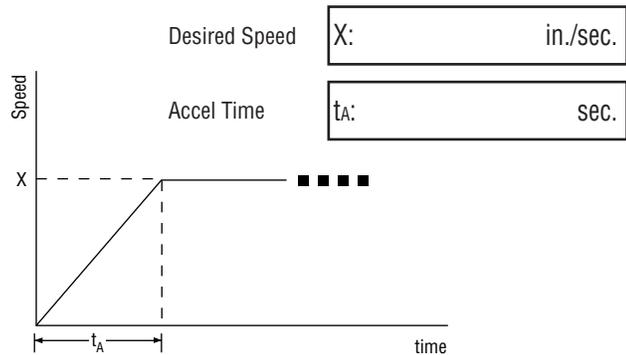


Move l Distance Within t Time

① Move Distance	l : <input type="text"/> in.	⑧ Distance per Pulse (Step Motor)	Δl : <input type="text"/> in.		
② Time to Make Move	t : <input type="text"/> sec.	⑨ Stop Time	t_s : <input type="text"/> sec.		
③ Max. Linear Speed	v : <input type="text"/> in./sec.	⑩ Screw Diameter	D_B : <input type="text"/> in.		
④ Push/Pull Force Push Opposes, Pull Helps	F : <input type="text"/> lb.	⑪ Screw Length	L_B : <input type="text"/> in.	⑮ Diameter of Motor Pulley	D_{P1} : <input type="text"/> in.
⑤ Stopping Accuracy	\pm : <input type="text"/> in.	⑫ Screw Pitch	P_B : <input type="text"/> in./rev	⑯ Weight of Motor Pulley	W_{P1} : <input type="text"/> lb.
⑥ Work+ Table Weight	W : <input type="text"/> lb.	⑬ Screw Efficiency	η : <input type="text"/> %	⑰ Diameter of Screw Pulley	D_{P2} : <input type="text"/> in.
⑦ Screw Angle	α : <input type="text"/> deg	⑭ Belt Weight	W_B : <input type="text"/> lb.	⑱ Weight of Screw Pulley	W_{P2} : <input type="text"/> in.

■ Alternate Motion Profile

Be at X Speed Within t Time



Additional Information or Alternate Profile:

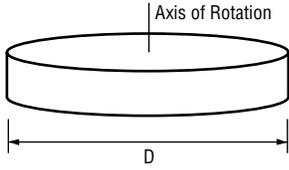
■ Customer Information

Name/Title: _____	TEL: _____ EXT: _____
Company: _____	FAX: _____
Address: _____	Application: _____
City/State/Zip: _____	_____

Please fill out as completely as possible and fax toll free: **1-800-309-7999**

Product Recommendation Information Sheet

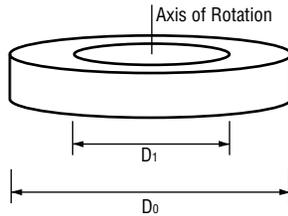
Direct Drive/Gear Driven Rotary Load



Diameter in.

Weight oz.

Gear Ratio : 1

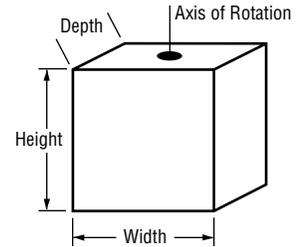


Inner Diameter D_1 in.

Outer Diameter D_0 in.

Weight oz.

Gear Ratio : 1



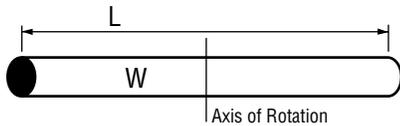
Height in.

Width in.

Depth in.

Weight oz.

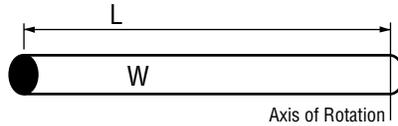
Gear Ratio : 1



Length in.

Weight oz.

Gear Ratio : 1



Length in.

Weight oz.

Gear Ratio : 1

Motion Profile

Move X Distance Within t Time

Distance degrees

Time sec.

Be at X Speed Within t Time

Speed rev/sec.

Time sec.

or

Additional Information or Alternate Profile:

Customer Information

Name/Title: _____ TEL: _____ EXT: _____

Company: _____ FAX: _____

Address: _____ Application: _____

City/State/Zip: _____

Please fill out as completely as possible and fax toll free: **1-800-309-7999**

Product Recommendation Information Sheet

■ Ventilation Cooling, Exhaust

Total heating value and power consumption in equipment

Q:	W
Total input: Pin	W
Total output: Pout	W
Efficiency:	%

Equipment Dimensions

Width: W	in.
Height: h	in.
Depth: d	in.
Material, Coating:	
→Emissivity	%

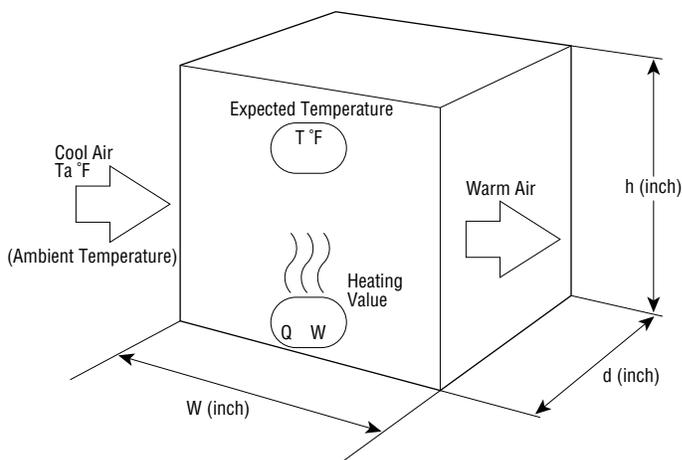
Max. Temperature in Equipment
(Expected Temperature)

T: °F

* Please include as much information as possible (such as mounting position, inlet and outlet position, etc).

Ambient Temperature
(Cool Air)

Ta: °F



■ Customer Information

Name/Title: _____	TEL: _____	EXT: _____
Company: _____	FAX: _____	
Address: _____	Application: _____	
City/State/Zip: _____		

Please fill out as completely as possible and fax toll free: **1-800-309-7999**

Product Recommendation Information Sheet

■ Ducted Exhaust

Required Exhaust Volume

Q:		in. ³ /min
	Required air flow speed	
	: V	in./sec
	Where	

Duct Dimensions

φD:		in.
-----	--	-----

Filter Characteristics

Air Flow Speed	in./sec
Pressure Loss	in. H ₂ O

Suction Opening Shape

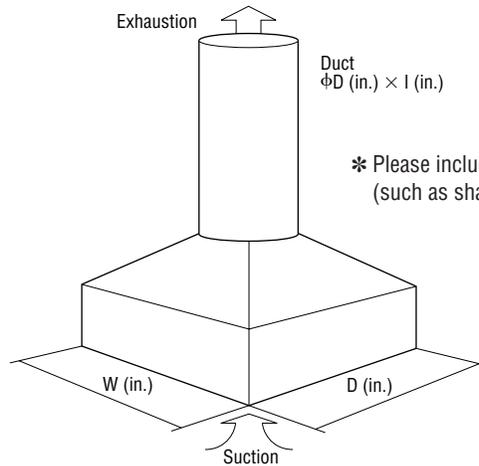
W:		inch × D:		in.
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Exhausted Air Temperature

	°F
--	----

Exhaust Opening Shape

W:		inch × D:		in.
----	--	-----------	--	-----



■ Customer Information

Name/Title: _____	TEL: _____ EXT: _____
Company: _____	FAX: _____
Address: _____	Application: _____
City/State/Zip: _____	_____

Please fill out as completely as possible and fax toll free: **1-800-309-7999**

Conversion Charts

B = A × multiply unit

● Length

A \ B	mm	cm	m	in.
mm	1	0.1	0.001	0.0393701
cm	10	1	0.01	0.393701
m	1000	100	1	39.3701
in.	25.4	2.54	0.0254	1

● Weight

A \ B	g	kg	oz.	lb.
g	1	0.001	0.035274	0.00220462
kg	1000	1	35.274	2.20462
oz.	28.3495	0.0283495	1	0.0625
lb.	453.592	0.453592	16	1

● Inertia

A \ B	kg-cm ²	g-cm ²	oz-in ²	oz-in-sec ²	lb-in ²	lb-in-sec ²
kg-cm ²	1	10 ³	5.46745	0.0141612	0.341718	8.85076×10 ⁻⁴
g-cm ²	10 ⁻³	1	5.46745×10 ⁻³	1.41612×10 ⁻⁵	3.41718×10 ⁻⁴	8.85076×10 ⁻⁷
oz-in ²	0.182899	182.899	1	2.59009×10 ⁻³	0.0625	1.61880×10 ⁻⁴
oz-in-sec ²	70.6154	7.06154×10 ⁴	386.088	1	24.1305	0.0625
lb-in ²	2.92630	2.92630×10 ³	16	0.0414414	1	2.59007×10 ⁻³
lb-in-sec ²	1.12985×10 ³	1.12985×10 ⁶	6.17740×10 ³	16	386.0892	1

● Torque

A \ B	N-m	N-cm	dyn-cm	kg-cm	g-cm	oz-in	lb-in
N-m	1	100	10 ⁷	10.19716	1.019716×10 ⁴	141.6121	8.850759
N-cm	10 ⁻²	1	10 ⁵	0.1019716	101.9716	1.416121	0.08850759
dyn-cm	10 ⁻⁷	10 ⁻⁵	1	1.019717×10 ⁻⁶	1.019717×10 ⁻³	1.416121×10 ⁻⁵	8.850759×10 ⁻⁷
kg-cm	9.80665×10 ⁻²	9.80665	9.80665×10 ⁵	1	10 ³	13.887407	0.8679630
g-cm	9.80665×10 ⁻⁵	9.80665×10 ⁻³	980.665	10 ⁻³	1	0.013887407	8.679630×10 ⁻⁴
oz-in	7.061541×10 ⁻³	0.7061541	7.061541×10 ⁴	0.07200768	72.00768	1	0.0625
lb-in	0.1129846	11.29846	1.129846×10 ⁶	1.1521228	1.1521228×10 ³	16	1

● Air Flow

A \ B	ℓ/s	ℓ/m	m ³ /m	m ³ /h	CFM
ℓ/s	1	60	0.06	3.6	2.11888
ℓ/m	1.67×10 ⁻²	1	10 ⁻⁴	0.06	3.531467×10 ⁻²
m ³ /m	16.7	10 ³	1	60	35.31467
m ³ /h	0.278	16.7	1.67×10 ⁻²	1	0.58858
CFM	0.47195	28.31685	2.831685×10 ⁻²	1.69901	1

● Static Pressure

A \ B	Pa	mmH ₂ O	in.H ₂ O
Pa	1	0.10197	4.01463×10 ⁻³
mmH ₂ O	9.80665	1	3.93701×10 ⁻²
in.H ₂ O	249.08891	25.4	1

● Temperature

$$(^{\circ}\text{F} - 32) \times \frac{5}{9} = ^{\circ}\text{C}$$

$$[\text{Temperature difference: } ^{\circ}\text{F} \times \frac{5}{9} = ^{\circ}\text{C}]$$

