How to Read Product Pages (See page 7 for information about symbols)

Header Information

● Left Header Index
List the names of currently available series.
(Sample of left side of page)

A-100	0.72°/Geared Stepper Motor and Driver Package RKⅡ Series

Standard Type
Standard Type with Elec
Standard Type with Enc

■**Specifications**

Product Name			Built-in Controller Type	RK5543□□D□-3
		Pulse Input Type	RK5543□-3	
Maximum Holding Torque		N·m (oz-in)	0.14 (19.8)	
Holding Torque at Motor Standstill	Power ON	N·m (oz-in)	0.07 (9.9)	
	Electromagnetic Brake	N·m (oz-in)	0.07 (9.9)	
Rotor Inertia		J : kg·m²(oz-in²)	30×10⁻⁷ (0.164) [45×10⁻⁷ (0.25)]*¹ (31×10⁻⁷ (0.17))*²	
Rated Current		A / Phase		
Basic Step Angle				
Power Supply Input	Voltage / Frequency			
	Input Current	Single-Phase 100-120 VAC	2.1	
	A	Single-Phase 200-240 VAC	1.3	
Excitation Mode				
Control Power Supply*³				

● Right Header Index
Shows the product type.
(Sample of right side of page)

Stepper Motors	A-85

sy-to-Use Functions

Step Angle is Easy to Set
pulse input type, 32 step angles can be selected. To easily
rade from a 1.8° stepper motor, use the step angle setting switch
atch the existing input pulses to the desired output speed and
tion. There is no software or control module required.

Step Angle Setting Switch
Easily set with a switch

Overview,
Product
Series

AC Input
Motor &
Driver

0.36°/Geared
αSTEP
AR

0.36°/Geared
αSTEP
Absolute
AZ

0.72°/Geared
RKⅡ

DC Input
Motor &
Driver

built-in controller type, the value can be set between
p/rev~200000 p/rev.
ing can be done by a control module, data setting software or
485 communication.

● Index
Color coded based on products.
- ■ Stepper Motors
- ■ Servo Motors
- ■ Standard AC Motors
- ■ Brushless Motors/AC Speed Control Motors
- ■ Linear & Rotary Actuators
- ■ Network-Compatible Products, Controller
- ■ Cooling Fans
- ■ Technical Reference
- ■ General Information

(Sample page)

A-84	

0.72°/Geared Stepper Motor and Driver Package
RKⅡ Series

<Additional Information>
● Technical reference → Page H-1
● Regulations & Standards → Page I-2

cㆄⁱᵘˢ CE

Motor website.

CⒻLEX

Built-in Controller Type   Pulse Input Type

It is a 0.72° stepper motor and driver package with
improved basic performance and ease of use, achieved
by combining the newly developed high efficiency 0.72°
stepper motor with a full digital control microstep driver to
maximize motor performance.

- ● Starting from $461.00
- ● Increased Accuracy, Decreased Vibration, Increased Torque
- ● High Efficiency Allows for Reduced Power Consumption and Lower Heat Generation
- ● A Variety of Geared Types are Available to Suit the Application.
- ● 2 Driver Types to Choose from Built-in Controller Type ⒻLEX/Pulse Input Type
- ● Various Easy-to-use Functions
- ● Improved Noise Resistance through Line Driver Connection

Information on Safety Standards
Explanation of all standards → Page I-2
Applicable standards and certification bodies
→ Oriental Motor website

Additional Information
Shows the location of technical references or information about safety standards.
● When product details are available on the website, the reference information is shown here.

Product Name
In this catalog, product names are listed in bold.
For package products, the product name is listed in bold, and the component parts are listed in regular font.
Example package product)
Product Name: **RK564ACD-◇**
Motor Product Name: PKE564AC
Driver Product Name: RKSD507CD

Prices
Prices are current as of March, 2015. Prices do not include any taxes. When purchasing, sales taxes, etc will be charged separately.

■**Product Line**
● Built-in Controller Type

◇Standard Type

Product Name (Single Shaft)	List Price
RK5543A□D-3	$461.00
RK5544A□D-3	$462.00
RK5545A□D-3	$469.00
RK5564A□D-3	$506.00
RK5566A□D-3	$511.00
RK5569A□D-3	$516.00
RK5596A□D-3	$566.00
RK5599A□D-3	$606.00
RK55913A□D-3	$649.00

◇**TS** Geared Type

Product Name (Double Shaft)	List Price
RK5543B□D-3	$463.00
RK5544B□D-3	$464.00
RK5545B□D-3	$472.00
RK5564B□D-3	$508.00
RK5566B□D-3	$513.00
RK5569B□D-3	$519.00
RK5596B□D-3	$570.00
RK5599B□D-3	$612.00
RK55913B□D-3	$657.00

◇Standard Type with Electromagnetic Brake

Product Name	List Price
RK5543M□D-3	$609.00
RK5544M□D-3	$610.00
RK5545M□D-3	$618.00
RK5564M□D-3	$696.00
RK5566M□D-3	$702.00
RK5569M□D-3	$707.00
RK5596M□D-3	$778.00
RK5599M□D-3	$818.00
RK55913M□D-3	$861.00

◇Standard Type with Encoder

Product Name	List Price
RK5543R□D2-3	$547.00
RK5544R□D2-3	$548.00
RK5545R□D2-3	$556.00
RK5564R□D2-3	$59_.00
RK5566R□D2-3	$59_.00
RK5569R□D2-3	$60_.00
RK5596R□D2-3	$65_.00
RK5599R□D2-3	$69_.00
RK55913R□D2-3	$73_.00

◇**TS** Geared Type with Electromagnetic Brake

CAD Data
2D & 3D CAD → 2D and 3D CAD data is available.
2D CAD → 2D CAD data is available.
CAD data can be downloaded from the Oriental Motor website (orientalmotor.com).
If the 2D CAD data is listed with a number (example: B1048), the CAD number can be used to search for it on the Oriental Motor website.

■**Dimensions** Unit = mm (in.)
● Motors
◇Standard Type
Frame Size 42 mm (1.65 in.)   **2D & 3D CAD**

Product Name		Motor Product Name	L1	L2	Mass kg (lb.)	2D CAD
Built-in Controller	Pulse Input					
RK5543A□D-3	RK5543A□-3	PKE543AC	34 (1.34)	–	0.26 (0.57)	B996
RK5543B□D-3	RK5543B□-3	PKE543BC		49 (1.93)		
RK5544A□D-3	RK5544A□-3	PKE544AC	40 (1.57)	–	0.32 (0.7)	B997
RK5544B□D-3	RK5544B□-3	PKE544BC		55 (2.17)		
RK5545A□D-3	RK5545A□-3	PKE545AC	46 (1.81)	–	0.38 (0.84)	B998
RK5545B□D-3	RK5545B□-3	PKE545BC		61 (2.4)		

4×M3×4.5 (0.18) Deep

Footer Information
The location of various information for the same series is shown at the bottom of the page.

A-110	ORIENTAL MOTOR GENERAL CATALOG 2015/2016	Page	Features A-84 / System Configuration A-94 / Product Line A-96 / Specifications, Characteristics A-100 / Dimensions A-110 / Connection and Operation A-121 / Motor and Driver Combinations A-130

● Enter **A** (Single-Phase 100-120 VAC) or **C** (Single-Phase 200-240 VAC) where □ is located within the product name.
※ These dimensions are for double shaft motors. For single shaft motors, ignore the □ areas.

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