Oriental motor



RoHS-Compliant (RoHS)

5 Phase Stepping Motor and Driver with built in Controller

CRK Series

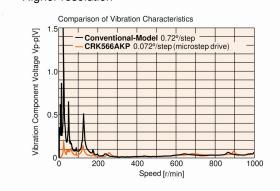
The **CRK** Series with a built in controller is a compact, space saving 5-phase stepping motor and driver package with a powerful, feature-rich controller built in.

The driver supports stand alone or RS-485 communications with multi-drop capability for network operation and I/O control.



5 phase motor features

- Lower vibration
- · Increased positional accuracy
- Higher resolution

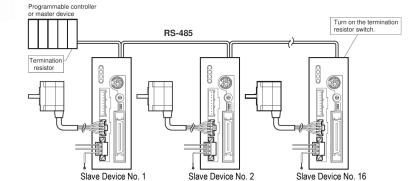


3 Operating Modes

- · Direct command entry from terminal, PLC or master controller.
- · Stand alone operation running stored programs selected via I/O.
- · Variable data any settable parameter or variable values entered/changed via direct entry from a host will be used by the stored sequence.

RS-485 Communications

- Multi-Drop up to 16 units
- PLC or PC based programming
- · Warning, Alarm and Error messaging



Space Savings



Din Rail Mounting Possible

Motion Profile Example

- · Repetitive Positioning
- Stopping via Sensor Input
- · Continuous Operation at Variable Speeds
- Linked Motion
- Mechanical / Electrical Return to Home
- PLS-OUT Function Drive a second driver with the same pulse count as the first motor.

Visit www.orientalmotor.com

For further information (specifications, dimensions, speed-torque characteristics)

General Specifications

Connection methods	ASCII Commands via RS- 485, no need for dedicated software
Transmission Rate	Selectable up to 115,200 bps
Input signals	11 Dedicated and 6 General purpose
Output signals	2 Dedicated and 4 General purpose
Number of sequences	64 maximum
Power Source	24VDC

Accessories

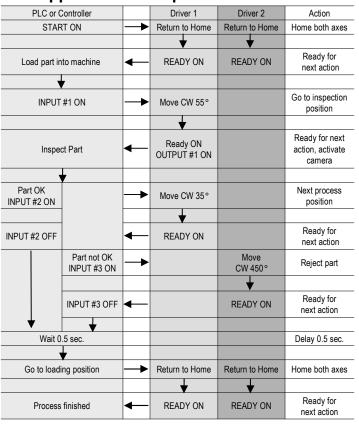
- RS 485 Jumper cable (Multi-drop)
- Encoder driver cable
- Motor Extension cable

Operator's manual available

Visit www.orientalmotor.com

Or contact Technical Support for further information.

Application Example



Product Line

Туре	Feature	Motor Frame Size	Basic Step Angle [deg/step]	Maximum Holding Torque
		□28 mm (□1.10 in.)		0.042 ~ 0.09 N ·m (5.9 ~ 12.7 oz-in)
(2)	A high-resolution type offers higher positioning accuracy with the basic step angle of 0.36°/step.	□42 mm (□1.65 in.)	0.36	0.24 ~ 0.42 N·m (34 ~ 59 oz-in)
High-Resolution Type		□60 mm (□2.36 in.)		0.78 ~ 2.3 N · m (110 ~ 320 oz-in)
	A high-torque motor has approx. 1.3 ~ 1.5 times more	□20 mm (□0.79 in.)		0.0231 N m (3.2 oz-in)
(2)	torque when compared to a standard 5 phase stepping motor.	□28 mm (□1.10 in.)	0.72	0.048 ~ 0.078 N·m (6.8 ~ 11 oz-in)
High-Torque Type		□42 mm (□1.65 in.)		0.24 ~ 0.42 N·m (34 ~ 59 oz-in)
	The basic model offering a good balance of torque and low vibration/noise characteristics.	□42 mm (□1.65 in.)	0.72	0.13 ~ 0.24 N ·m (18.4 ~ 34 oz-in)
Standard Type		□60 mm (□2.36 in.)	0.72	0.42 ~ 1.66 N·m (59 ~ 230 oz-in)
A STATE OF THE STA	Geared stepping motors are effective for inertia reduction, increasing torque, higher resolution and suppressing vibration. Five gear ratios are available.	□28 mm (□1.10 in.)	0.024 ~ 0.1	0.2 ~ 0.5 N·m (28 ~ 71 oz-in)
		□42 mm (□1.65 in.)	0.024 ~ 0.2	0.35 ~ 1.5 N·m (3 ~ 13.2 lb-in)
TH Geared Type	Backlash 10~60 arc minute (0.167~1°)	□60 mm (□2.36 in.)	0.024 - 0.2	1.25 ~ 4 N·m (11 ~ 35 lb-in)

ORIENTAL MOTOR U.S.A. CORP.

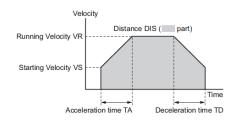
Technical Support Tel: 800-468-3982 7:30A.M.-7:00P.M. C.S.T. (M-F) E-mail: techsupport@orientalmotor.com

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Sample Programs

Incremental Motion



(1) TA=0.1; TD=0.1 #Acceleration and deceleration times to 0.1 (2) VS=100; VR=1000; #Program start and running speeds (3) DIS=10000

#Set distance to 10000

#Set general purpose outputs 3 and 4 inactive #Loop, loop count given by variable Q #Start moving incrementally, distance DIS #Wait for motion to end, then send the value of PC

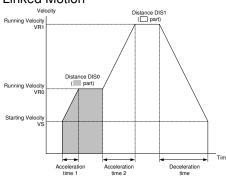
#Set Output 4 active #Wait 1 second #Set Output 4 inactive #Endo of loop

#Start moving to absolute position 0

#Wait for motion to end, then send value of PC

#Set Output 3 active





(1) VR1 500 #Set the velocity for linked move #1 to 500 pps (2) VR1=500 #Device response

(3) DIS1 2000 #Set the distance for linked move #1 to 2000 (4) DIS1=2000

#Device response

(5) INCABS1 1 #Set the move type for linked motion #1 to incremental (6) INCABS1=1 [INC]

#Device response

#Enable the linked operation for motion #1

#Device response

#Linked move #2 velocity equals 1000 pps

#Device response

#Set the move type for linked motion #2 to incremental

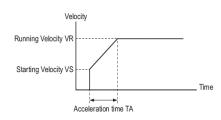
#Device response

#Linked move #2: destination is position 4000

#Device response #"Unlink" link2 from link3 #Device response

#Start the linked operation motion

Continuous Motion



(1) TA 0.5; TD 0.5; VR 1000

(4) OUT3=0; OUT4=0

(5) LOOP Q

(7) MEND; PC

(8) OUT4=1

(9) WAIT 1

(11) ENDL

(12) MA 0

(7) LINK1 1

(8) LINK1=1

(9) VR2 1000

(10) VR2=1000

(11) INCABS2 1

(13) DIS2 4000

(14) DIS2=4000

(15) LINK2 0

(16) LINK2=0

(17) MI1

(12) INCABS2=1 [INC]

(10) OUT4=0

(13) MEND; PC (14) OUT3=1

(6) MI

- (2) MCP
- (3) LOOP
- (4) IF (IN1=1)
- (5) VR=VR+10; MCP
- (6) SAS Increase speed by 10 pps
- (7) WAIT TA
- (8) WHILE (IN1=1); WEND
- (9) ENDIF

#Move continuously (positive)

#Increase speed #Send message 1

Partial List of Built in Commands

Reference only. For a complete list, see operator's manual

Motion Commands

escription
ontinue motion
hange velocity
ard stop
love to absolute position
love continuously, negative or positive
eek mechanical home position, negative or positive
love incremental distance
ause motion
lear state of paused motion
oft stop

Monitor Commands

Command	Description
ALM	Alarm status and history
HELP	Display help information
REPORT	Display system status
TEACH	Teach Positions
WNG	Warning status and history

System Status

Command	Description
DTMP	Drive temperature
EC	Encoder Counter
PC	Position Counter
PE	Position error

System Control

Command	Description
ABORT	Abort sequences and motions
ABORTACT	Abort action
ALMCLR	Clear alarm
CRRUN	Run current
CRSTOP	Stop current
CURRENT	Current On/Off
HOMESEL	Homing type select
MRES	Motor resolution
OTACT	Overtravel action
STARTACT	START input action
STOACT	Step Out Action
STOB	Step Out Alarm/Warning
STOEN	Step Out Detection enable
WNGCLR	Clear Warning

Sequence Management

Coquerios mariagoment	
Command	Description
CLEARSEQ	Clear sequences
COPY	Copy sequence
DEL	Delete sequence
DIR	Sequence Directory
EDIT	Edit sequence
LIST	List sequence contents
LOCK	Lock Sequence
М	Display memory status
REN	Rename sequence
RUN	Run sequence
UNLOCK	Unlock sequence
	Command CLEARSEQ COPY DEL DIR EDIT LIST LOCK M REN RUN

User Variables

Command	Description
A to Z	User variables

Motion Variables

Command	Description	
AREAx	AREA1 position and AREA2 position for AREA output signal	
DIS	Incremental motion distance	
INCABSx	Linked move type	
LINKx	Link control	
POS[x]	Position array data	
SCHGPOS	Distance after SENSOR input	
SCHGVR	Velocity after SENSOR input	
TA	Acceleration time	
TD	Deceleration time	
VR	Running velocity	
VRx	Linked motion running velocity	
VS	Starting velocity	

Sequence Commands

Command	Description
#	Sequence Comment
BREAKL	Break LOOP block
BREAKW	Break WHILE block
CALL	Call sequence as subroutine
ELSE	Begin ELSE block: execute if IF is false
END	End sequence
ENDIF	End of IF block
ENDL	End of LOOP block
IF	Begin IF block: execute if true
LOOP	Begin counted LOOP block
MEND	Wait for motion end
RET	Sequence Return
SACS	Send ASCII control string
SAS	Send ASCII string
VIEW	View parameter
WAIT	Wait for specified time
WEND	End of WHILE block
WHILE	Begin WHILE block: execute while true

I/O

Command	Description
EVx	Configure event output
INPAUSE	PAUSE signal input assignment
OUTHOMEP	HOMEP signal output assignment
OUTREADY	READY signal output assignment
OUTRUN	RUN signal output assignment
OUTSG	System output signal status
OUTSTO	STEPOUT signal output assignment
OUTTEMP	TEMP signal output assignment
OUTWNG	WNG signal output assignment
OUTx	Individual general output control

Math logical Operators (In sequences only)

Command	Description
&, , ^, <<, >>	AND, OR, XOR, left logic shift, right logic shift
+, -, *, /, %	Addition, subtraction, multiplication, division, modulo
a < b	a is smaller than b
a <= b	a is equal to or smaller than b
a = b	a is equal to b
a! = b	a is not equal to b
a >= b	a is equal to or larger than b
a > b	a is larger than b

■Product Number Code

• High-Torque Type, High-Resolution Type, Standard Type

CRK 5 4 4 PMAKP 0 0 0 0 0 0 0 0 0 0 0

	Series	CRK: CRK Series
2	5 : 5-Phase	
	Motor Frame Size	1: 20 mm (0.79 in.) 2: 28 mm (1.10 in.)
	Wiotor Frame Size	4: 42 mm (1.65 in.) 6: 60 mm (2.36 in.)
4	Motor Case Length	
⑤	Motor Type	
6	Resolution	Blank: Standard (0.72°/step)
	Resolution	M: High-Resolution Type (0.36°/step)
7	Shaft Type	A: Single Shaft B: Double Shaft
8	Power Supply Voltage	K : DC 24V
9	Driver Type	P: Built-in Controller Package

•**TH** Geared Type

CRK 5 2 3 P A K P - T 7.2

1	2	3	4	⑤	6	7	8	9	100

	Series	CRK: CRK Series
2	5 : 5-Phase	
3	Motor Frame Size	2 : 28 mm (1.10 in.) 4 : 42 mm (1.65 in.) 6 : 60 mm (2.36 in.)
4	Motor Case Length	
⑤	Motor Type	
6	Shaft Type	A: Single Shaft B: Double Shaft
7	Power Supply Voltage	K : DC 24V
8	Driver Type	P: Built-in Controller Package
9	Gearhead Type	T: TH Geared Type
100	Gear Ratio	

Product Line

- Notes:

 This documentation is to support additional products not found in the 2009/2010 General Catalog.

 For motors with built-in controller listed below, Specifications and Speed-Torque Characteristic, Permissible Overhung Load and Permissible Thrust Load are same as basic model motors, please refer to Specifications for Basic Motor Mode | .

 Refer to page C-152 in the 2009/2010 General Catalog for Permissible Overhung Load and Permissible Thrust Load.

 Refer to page of the 2009/2010 General Catalog for Permissible Overhung Load and Permissible Thrust Load.

 Refer to page of the 2009/2010 General Catalog for the Driver Specifications (Page C-151), General Specifications (Page C-151).

High-Resolution Type

Model	Basic Model	Reference P Specifications and Speed-Torque Characteristics	age # for Motor Dimensions
CRK523PMAKP	CRK523PMAP		
CRK523PMBKP	CRK523PMBP		
CRK524PMAKP	CRK524PMAP		
CRK524PMBKP	CRK524PMBP	0000/0040	000010010
CRK525PMAKP	CRK525PMAP		2009/2010
CRK525PMBKP	CRK525PMBP	2009/2010 AP BP C-140 BP AP	General Catalog C-153
CRK544PMAKP	CRK544PMAP		0 100
CRK544PMBKP	CRK544PMBP		
CRK546PMAKP	CRK546PMAP		
CRK546PMBKP	CRK546PMBP	_	
CRK564PMAKP	CRK564PMAP		
CRK564PMBKP	CRK564PMBP	0000/0040	000010010
CRK566PMAKP	CRK566PMAP	2009/2010	2009/2010
CRK566PMBKP	CRK566PMBP	General Catalog C-141	General Catalog C-154
CRK569PMAKP	CRK569PMAP	0 141	0 104
CRK569PMBKP	CRK569PMBP		

High-Torque Type

		Reference	Page # for		
Model	Basic Model	Specifications and Speed-Torque Characteristics	Motor Dimensions		
CRK513PAKP	CRK513PAP				
CRK513PBKP	CRK513PBP	2000/2010	2009/2010 General Catalog C-153		
CRK523PAKP	CRK523PAP	2009/2010 General Catalog			
CRK523PBKP	CRK523PBP	C-142			
CRK525PAKP	CRK525PAP	7 7 7 7 7			
CRK525PBKP	CRK525PBP				
CRK544PAKP	CRK544PAP	0000/0040	0 100		
CRK544PBKP	CRK544PBP	2009/2010 General Catalog			
CRK546PAKP	CRK546PAP	C-143			
CRK546PBKP	CRK546PBP	7 0 140			

Standard Type

		Reference Page # for		
Model	Basic Model	Specifications and Speed-Torque Characteristics	Motor Dimensions	
CRK543AKP	CRK543AP			
CRK543BKP	CRK543BP	0000/0040	2009/2010 - General Catalog C-154	
CRK544AKP	CRK544AP	4BP General Catalog C-143		
CRK544BKP	CRK544BP			
CRK545AKP	CRK545AP			
CRK545BKP	CRK545BP			
CRK564AKP	CRK564AP			
CRK564BKP	CRK564BP	0000/0040	0 104	
CRK566AKP	CRK566AP	2009/2010 General Catalog		
CRK566BKP	CRK566BP	C-144		
CRK569AKP	CRK569AP	0 144		
CRK569BKP	CRK569BP			

•TH Geared Type

-		Reference	Page # for		
Model	Basic Model	Specifications and Speed-Torque Characteristics	Motor Dimensions		
CRK523PAKP-T7.2	CRK523PAP-T7.2				
CRK523PBKP-T7.2	CRK523PBP-T7.2				
CRK523PAKP-T10	CRK523PAP-T10	2009/2010			
CRK523PBKP-T10	CRK523PBP-T10	General Catalog			
CRK523PAKP-T20	CRK523PAP-T20	C-145			
CRK523PBKP-T20	CRK523PBP-T20				
CRK523PAKP-T30	CRK523PAP-T30				
CRK523PBKP-T30	CRK523PBP-T30		2009/2010 General Catalog C-155		
CRK543AKP-T3.6	CRK543AP-T3.6				
CRK543BKP-T3.6	CRK543BP-T3.6				
CRK543AKP-T7.2	CRK543AP-T7.2	2009/2010 General Catalog C-146			
CRK543BKP-T7.2	CRK543BP-T7.2				
CRK543AKP-T10	CRK543AP-T10				
CRK543BKP-T10	CRK543BP-T10				
CRK543AKP-T20	CRK543AP-T20				
CRK543BKP-T20	CRK543BP-T20				
CRK543AKP-T30	CRK543AP-T30				
CRK543BKP-T30	CRK543BP-T30				
CRK564AKP-T3.6	CRK564AP-T3.6				
CRK564BKP-T3.6	CRK564BP-T3.6				
CRK564AKP-T7.2	CRK564AP-T7.2				
CRK564BKP-T7.2	CRK564BP-T7.2	0000/0040			
CRK564AKP-T10	CRK564AP-T10	2009/2010 General Catalog			
CRK564BKP-T10	CRK564BP-T10	C-147			
CRK564AKP-T20	CRK564AP-T20				
CRK564BKP-T20	CRK564BP-T20				
CRK564AKP-T30	CRK564AP-T30				
CRK564BKP-T30	CRK564BP-T30				

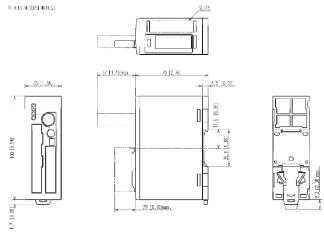
Specifications

Program	Number of sequences	64 maximum
· ·	Maximum Sequence size	1.6KB total for compiled
		4.2KB total (text + compiled)
	Input method	ASCII commands via RS-485
Motion Profile	Frequency	1 to 500,000 pps (1 step increments)
Specifications	Positioning range	+8,388,607 to -8,338,607 steps
	Acceleration/Deceleration range	0.001 to 1000 sec, Linear ramp
Operation	Relative Positioning	Available
Patterns	Absolute Positioning	Available
	Linked motion	4 linked motions, maximum
	Continuous operation	Available
	Return to mechanical home operation	Available
	Return to electrical home operation	Available
	Speed change on the fly	Available in continuous operation
Communication	Communication method	In conformance with EIA-485
Specifications	Transmission rate	Selectable from 9600, 19200, 38400, 57600, 115200 bps
	Physical layer	Asynchronous mode (8 bits, 1 stop bit, no parity)
	Protocol	9-byte fixed frame length, binary transfer
	Number of multi-dropped devices	16
nput/Output	Dedicated inputs (START, PSTOP, ALMCLR etc)	11, photocoupler, 24VDC
Specifications	Dedicated outputs (Move, ALM)	2, photocoupler, Open collector, 24VDC or less, 20mA max
	Encoder inputs (A, B, Z)	Line Driver inputs, 26C231 equivalent
	General purpose inputs	6 photocoupler, 24VDC
	General purpose outputs	4 photocoupler, Open collector, 24VDC or less, 20mA max
	Pulse, Direction outputs	Line Driver outputs, 26C231 equivalent
General	Dimensions	3.93(H) in x 1.38(W) in x 2.76(D) in
Specifications		100(H) mm x 35(W) mm x 70(D) mm
•	Mass	5.7 oz
	Ambient temperature	0 to +40 °C (+32 to 104 °F), non freezing
	Ambient humidity	85% or less (non-condensing)

■Dimensions Unit = mm [in.]

CRD503-KP, CRD507-KP, CRD514-KP

Mass: 0.2kg (0.44lb)

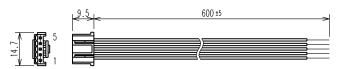


7 [0.28]

19 [0.75]

CONNECTOR

Motor lead wire / connector assembly



1000 +100 [39.37+3.94]

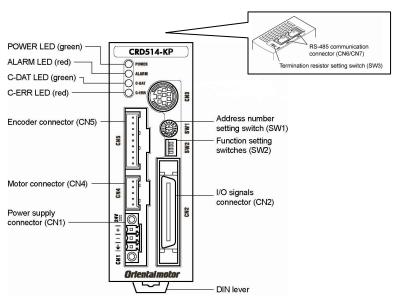
Connectors (Included)

Connectors (included)
Connector for power supply (CN1)
Connector: MC1, 5/3-STF-3,5 (Phoenix Contact)
Cable with connector (CN2, Length:3.28 feet)
Connector: FX2B-40SA-1.27R (HIROSE ELECTORIC CO.,LTD.)
Connector Leads (For Motor) (CN4, Length:2 feet)

Connector housing: 51103-0500 (MOLEX) Contact: 50351-8100 (MOLEX) Applicable Crimp Tool: 57295-5000 (MOLEX)

•When you purchase only drivers for maintenance etc., it comes with Connector leads, a cable with connector and a connector for power supply.

Connection and Operations



Name	Description		
POWER LED (green)	This LED is lit while the main power is input.		
ALARM LED (red)	This LED will blink when an alarm generates (a protective function is triggered). You can check the generated alarm by counting the number of times the LED blinks.		
C-DAT LED (green)	This LED will blink or illuminate steadily when the driver is communicating with the master station properly via RS-485 communication.		
C-ERR LED (red)	This LED will illuminate when a RS-485 communication error occurs with the master station.		
Address number setting switch (SW1)	Use this LED when controlling the system via RS-485 communication.		
	Set the address number of RS-485 communication.		
Function setting switches (SW2)	Use this switches when controlling the system via RS-485 communication.		
	No.1 to 3: Used to set the baud rate of RS-485 communication.		
	No.4: Used to set device to single or multi-axis mode		
Termination resistor setting switch (SW3)	Use this switch when controlling the system via RS-485 communication.		
	Set the termination resistor (120 Ω) of RS-485 communication.		
Power supply connector (CN1)	Connection for main power supply (+24 VDC) using the supplied connector.		
I/O signals connector (CN2)	Connection for the I/O signals using the supplied connector cable.		
Connector (CN3)	Not used		
Motor connector (CN4)	Connection for the motor.		
Encoder connector (CN5)	Connection for the encoder.		
RS-485 communication connectors (CN6/CN7)	Connection for the RS-485 communication cable.		

• Input / Output Signals

Lead wire		Uppe	r ribbon cable	Lead wire color Lower ribbo		on cable	
color	Pin No.	Signal name	Description	Lead wire color	Pin No.	Signal name	Description
Brown-1	A1	IN-COM0	Input common	Brown-3	B1	MOVE+	Matanasaina
Red-1	A2	START	Start input	Red-3	B2	MOVE-	Motor moving output
Orange-1	A3	ALMCLR	Alarm Clear input	Orange -3	B3	ALM+	- Alarm output
Yellow-1	A4	CROFF	Current OFF input	Yellow-3	B4	ALM-	Alarm output
Green-1	A5	ABORT	Abort input	Green-3	B5	OUT1+	Conord output 1*2
Blue-1	A6	IN1		Blue-3	B6	OUT1-	General output 1*2
Purple-1	A7	IN2		Purple-3	B7	OUT2+	Conord output 0*2
Gray-1	A8	IN3	0 1: +1	Gray-3	B8	OUT2-	General output 2*2
White-1	A9	IN4	General inputs*1	White-3	B9	OUT3+	0
Black-1	A10	IN5		Black-3	B10	OUT3-	General output 3*2
Brown-2	A11	IN6		Brown-4	B11	OUT4+	General output 4*2
Red-2	A12	HOME	Homing operation input	Red-4	B12	OUT4-	General output 4 2
Orange -2	A13	PSTOP	Panic Stop input	Orange -4	B13	N.C.	Not used
Yellow-2	A14	SENSOR	Sensor input	Yellow-4	B14	N.C.	Not used
Green-2	A15	+LS	+ Limit switch input	Green-4	B15	PLS-OUT+	Pulse output
Blue-2	A16	-LS	 Limit switch input 	Blue-4	B16	PLS-OUT-	(Line driver output)
Purple-2	A17	HOMES	Mechanical home sensor input	Purple-4	B17	DIR-OUT+	Direction output
Gray-2	A18	SLIT	Slit sensor input	Gray-4	B18	DIR-OUT-	(Line driver output)
White-2	A19	N.C.	Not used	White-4	B19	GND	GND
Black-2	A20	IN-COM1	Sensor input common	Black-4	B20	N.C.	Not used

^{*1} The function of General Input 1(IN1) to 6(IN6) can be assigned unique functions using the "INxxx" commands.
*2 The function of General Output 1(Out1) to 4(Out4) can be assigned unique functions using the "OUTxxx" commands.

List of Motor and Driver Combinations

Model names for motor and driver combinations are shown below.

Туре	Model	Motor Model	Driver Model	
71	CRK523PMAKP	PK523PMA		
	CRK523PMBKP	PK523PMB		
	CRK524PMAKP	PK524PMA	0005001/0	
	CRK524PMBKP	PK524PMB	CRD503-KP	
	CRK525PMAKP	PK525PMA		
	CRK525PMBKP	PK525PMB		
	CRK544PMAKP	PK544PMA		
ULL D. L.C. T.	CRK544PMBKP	PK544PMB	000507.40	
High-Resolution Type	CRK546PMAKP	PK546PMA	CRD507-KP	
	CRK546PMBKP	PK546PMB		
	CRK564PMAKP	PK564PMA		
	CRK564PMBKP	PK564PMB		
	CRK566PMAKP	PK566PMA	00054410	
	CRK566PMBKP	PK566PMB	CRD514-KP	
	CRK569PMAKP	PK569PMA		
	CRK569PMBKP	PK569PMB		
	CRK513PAKP	PK513PA		
	CRK513PBKP	PK513PB		
	CRK523PAKP	PK523PA	CRD503-KP	
	CRK523PBKP	PK523PB		
Ulah Tanana Tana	CRK525PAKP	PK525PA		
High-Torque Type	CRK525PBKP	PK525PB		
	CRK544PAKP	PK544PA		
	CRK544PBKP	PK544PB	ODD 507 KD	
	CRK546PAKP	PK546PA	CRD507-KP	
	CRK546PBKP	PK546PB		
	CRK543AKP	PK543NAW		
	CRK543BKP	PK543NBW		
	CRK544AKP	PK544NAW	CDDEAZ KD	
	CRK544BKP	PK544NBW	CRD507-KP	
	CRK545AKP	PK545NAW		
Standard Type	CRK545BKP	PK545NBW		
Stanuaru Type	CRK564AKP	PK564NAW		
	CRK564BKP	PK564NBW		
	CRK566AKP	PK566NAW	CDDE14 KD	
	CRK566BKP	PK566NBW	CRD514-KP	
	CRK569AKP	PK569NAW		
	CRK569BKP	PK569NBW		

Туре	Model	Motor Model	Driver Model
	CRK523PAKP-T7.2	PK523PA-T7.2	
	CRK523PBKP-T7.2	PK523PB-T7.2	
	CRK523PAKP-T10	PK523PA-T10	
	CRK523PBKP-T10	PK523PB-T10	CRD503-KP
	CRK523PAKP-T20	PK523PA-T20	
	CRK523PBKP-T20	PK523PB-T20	
	CRK523PAKP-T30	PK523PA-T30	
	CRK523PBKP-T30	PK523PB-T30	
	CRK543AKP-T3.6	PK543AW-T3.6	
	CRK543BKP-T3.6	PK543BW-T3.6	
	CRK543AKP-T7.2	PK543AW-T7.2	CRD507-KP
	CRK543BKP-T7.2	PK543BW-T7.2	
	CRK543AKP-T10	PK543AW-T10	
TH geared Type	CRK543BKP-T10	PK543BW-T10	OND307-KI
iii gealed Type	CRK543AKP-T20	PK543AW-T20	
	CRK543BKP-T20	PK543BW-T20	
	CRK543AKP-T30	PK543AW-T30	
	CRK543BKP-T30	PK543BW-T30	
	CRK564AKP-T3.6	PK564AW-T3.6	
	CRK564BKP-T3.6	PK564BW-T3.6	
	CRK564AKP-T7.2	PK564AW-T7.2	
	CRK564BKP-T7.2	PK564BW-T7.2	
	CRK564AKP-T10	PK564AW-T10	CRD514-KP
	CRK564BKP-T10	PK564BW-T10	ONDO 14-NF
	CRK564AKP-T20	PK564AW-T20	
	CRK564BKP-T20	PK564BW-T20	
	CRK564AKP-T30	PK564AW-T30	
	CRK564BKP-T30	PK564BW-T30	

Cable (Sold separately)

Encoder Cables RoHS

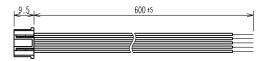
These lead wires with connector assemblies are available for use to connect the encoder to the driver.

Product Line

Model	L mm(ft.)	AWG
LC09A-006	600 (2)	22 (0.3mm ²)

Dimension







RS-485 Communication Cable Rolls

This cable with connector assemblies are available for use with the multi-axis operation to connect drivers.

Product Line

Model	L mm(ft.)
CC001-RS4	110 (0.36)

■Dimension Unit = mm [in.]



