R88D-KN

Accurax G5 linear drive

Accurate motion control in a compact size servo drive family. EtherCAT and safety builtin.

- Ironless and iron-core motor types
- Safety conforming ISO13849-1 PL-d
- High-response frequency of 2 kHz
- High resolution serial encoder for greater accuracy provided by 20 bits encoder
- · Real time auto-tuning

System configuration

• Advanced tuning algorithms (Anti-vibration function, torque feedforward, disturbance observer)

Ratings

- Iron-core motors 48 to 760 N (2000 N peak force)
- Ironless motors 29 to 423 N (2100 N peak force)



SYSMAC Sysmac Studio EtherNet/IP Accurax G5 linear NX/NJ series Ether CAT. Machine automation controller servo drive Up to 100 m Encoder cable Power cable CÞ Ċ, Ironless linear motor Accurax linear motor axis Iron-core linear motor

Servo motor supported

	Linear cerve motor							
	Bated	Dook			Accurax G5 linear u	The Emercar model		
Туре	force	force		Model	230V	400V		
Linear motor coil			•		•			
	48 N	105 N		R88L-EC-FW-0303-ANPC	R88D-KN02H-ECT-L	R88D-KN06F-ECT-L		
	96 N	210 N		R88L-EC-FW-0306-ANPC	R88D-KN04H-ECT-L	R88D-KN10F-ECT-L		
	160 N	400 N		R88L-EC-FW-0606-ANPC	R88D-KN08H-ECT-L	R88D-KN15F-ECT-L		
R88L-EC-FW-	240 N	600 N	Coil without connectors	R88L-EC-FW-0609-ANPC	R88D-KN10H-ECT-L	R88D-KN20F-ECT-L		
Iron-core motors	320 N	800 N		R88L-EC-FW-0612-ANPC	R88D-KN15H-ECT-L	R88D-KN30F-ECT-L		
	608 N	1600 N		R88L-EC-FW-1112-ANPC	R88D-KN15H-ECT-L	R88D-KN30F-ECT-L		
	760 N	2000 N		R88L-EC-FW-1115-ANPC	R88D-KN15H-ECT-L	R88D-KN30F-ECT-L		
201	48 N	105 N		R88L-EC-FW-0303-APLC	R88D-KN02H-ECT-L	R88D-KN06F-ECT-L		
	96 N	210 N		R88L-EC-FW-0306-APLC	R88D-KN04H-ECT-L	R88D-KN10F-ECT-L		
	160 N	400 N	0 11 111	R88L-EC-FW-0606-APLC	R88D-KN08H-ECT-L	R88D-KN15F-ECT-L		
230 V/400 V	240 N	600 N	Coll with	R88L-EC-FW-0609-APLC	R88D-KN10H-ECT-L	R88D-KN20F-ECT-L		
	320 N	800 N	connectors	R88L-EC-FW-0612-APLC	R88D-KN15H-ECT-L	R88D-KN30F-ECT-L		
	608 N	1600 N		R88L-EC-FW-1112-APLC	R88D-KN15H-ECT-L	R88D-KN30F-ECT-L		
	760 N	2000 N		R88L-EC-FW-1115-APLC	R88D-KN15H-ECT-L	R88D-KN30F-ECT-L		
	29 N	100 N		R88L-EC-GW-0303-ANPS	R88D-KN02H-ECT-L	-		
	58 N	200 N		R88L-EC-GW-0306-ANPS	R88D-KN08H-ECT-L	-		
	87 N	300 N		R88L-EC-GW-0309-ANPS	R88D-KN10H-ECT-L	-		
	70 N	240 N		R88L-EC-GW-0503-ANPS	R88D-KN02H-ECT-L	-		
	140 N	480 N		R88L-EC-GW-0506-ANPS	R88D-KN04H-ECT-L	-		
	210 N	720 N	connectors	R88L-EC-GW-0509-ANPS	R88D-KN08H-ECT-L	-		
1011633 1101013	141 N	700 N		R88L-EC-GW-0703-ANPS	R88D-KN04H-ECT-L	-		
the las	282 N	1400 N		R88L-EC-GW-0706-ANPS	R88D-KN08H-ECT-L	-		
	423 N	2100 N		R88L-EC-GW-0709-ANPS	R88D-KN10H-ECT-L	-		
	29 N	100 N		R88L-EC-GW-0303-APLS	R88D-KN02H-ECT-L	-		
	58 N	200 N		R88L-EC-GW-0306-APLS	R88D-KN08H-ECT-L	-		
	87 N	300 N		R88L-EC-GW-0309-APLS	R88D-KN10H-ECT-L	-		
230 V	70 N	240 N	O a il su itta	R88L-EC-GW-0503-APLS	R88D-KN02H-ECT-L	-		
200 V	140 N	480 N		R88L-EC-GW-0506-APLS	R88D-KN04H-ECT-L	-		
	210 N	720 N	connectors	R88L-EC-GW-0509-APLS	R88D-KN08H-ECT-L	-		
	141 N	700 N		R88L-EC-GW-0703-APLS	R88D-KN04H-ECT-L	-		
	282 N	1400 N		R88L-EC-GW-0706-APLS	R88D-KN08H-ECT-L	-		
	423 N	2100 N		R88L-EC-GW-0709-APLS	R88D-KN10H-ECT-L	-		
Accurax linear moto	r axis							
R88L-EA-AF-	48 N	105 N		R88L-EA-AF-0303-🗆	R88D-KN02H-ECT-L	R88D-KN06F-ECT-L		
Linear motor axis	96 N	210 N		R88L-EA-AF-0306-	R88D-KN04H-ECT-L	R88D-KN10F-ECT-L		
	160 N	400 N		R88L-EA-AF-0606-	R88D-KN08H-ECT-L	R88D-KN15F-ECT-L		
	240 N	600 N		R88L-EA-AF-0609-	R88D-KN10H-ECT-L	R88D-KN20F-ECT-L		
A Comment	320 N	800 N		R88L-EA-AF-0612-	R88D-KN15H-ECT-L	R88D-KN30F-ECT-L		
	608 N	1600 N		R88L-EA-AF-1112-	R88D-KN15H-ECT-L	R88D-KN30F-ECT-L		
	760 N	2000 N		R88L-EA-AF-1115-	R88D-KN15H-ECT-L	R88D-KN30F-ECT-L		

Type designation

Servo drive

R88D-KN01H-ECT-L

Accurax G5 series servo drive -

Drive type

N: Network type

- Linear drive

Model

ECT: EtherCAT comms

Capacity and voltage

	Voltage	Code	Output
		01H	100 W
		02H	200 W
	220.1/	04H	400 W
	230 V	08H	750 W
		10H	1 kW
		15H	1.5 kW
	400 V	06F	600 W
		10F	1.0 kW
		15F	1.5 kW
		20F	2.0 kW
		30F	3.0 kW

Servo drive specifications

Single-phase, 230 V

Lir	near servo drive type	R88D-KN	02H-ECT-L	04H-ECT-L	08H-ECT-L	10H-ECT-L	15H-ECT-L	
Ap	plicable linear	R88L-EC-	FW-0303	FW-0306	FW-0606	FW-0609	FW-0612	
se	rvo motor		GW-0303	GW-0506	GW-0306	GW-0309	FW-1112	
			GW-0503	GW-0703	GW-0509	GW-0709	FW-1115	
			-	-	GW-0706	-	-	
	Power	W	200	400	750	1000	1500	
	Continuous output current	Arms	1.6	2.6	4.1	5.9	9.4	
S	Max. output current Arms		4.8	7.8	12.3	16.9	28.2	
	Input power Main circuit		Single-phase/3-phase, 200 to 240 VAC +10% to -15% (50/60 Hz)					
tion	Supply Control circuit		Single-phase, 200 to 240 VAC +10% to -15% (50/60 Hz)					
fica	Control method		IGBT-driven PWM method, sinusoidal drive					
eci	Feedback		Serial encoder (incremental/absolute value)					
ds o	ഉ Usage/storage temper	rature	0 to 55°C/–20 to 65°C					
asid	Usage/storage humidi	Usage/storage humidity		90% RH or less (non-condensing)				
B	Altitude		1000 m or less above sea level					
	Ö Vibration/shock resista	O Vibration/shock resistance (max.)		5.88 m/s ² 10 to 60 Hz (Continuous operation at resonance point is not allowed)/19.6 m/s ²				
Configuration			Base mounted	Base mounted				
	Approx. weight	kg	0.8	1.1	1.6	1	.8	

Three-phase, 400 V

Li	near servo drive type	R88D-KN	06F-ECT-L	10F-ECT-L	15F-ECT-L	20F-ECT-L	30F-ECT-L	
Ap	oplicable linear	R88L-EC-	FW-0303	FW-0306	FW-0606	FW-0609	FW-0612	
se	rvo motor		-	-	-	-	FW-1112	
			-	-	-	-	FW-1115	
	Power	kW	0.6	1	1.5	2	3	
	Continuous output current	t Arms	1.5	2.9	4.7	6.7	9.4	
	Max. output current	Arms	6.4	8.7	14.1	19.7	28.2	
s	Input power	Main circuit	3-phase, 380 to 480 VAC +10 to -15% (50/60Hz)					
tion	Supply	Control circuit	24 VDC ±15%					
fica	Control method		IGBT-driven PWM method, sinusoidal drive					
eci	Feedback	Serial encoder	Incremental or absolute encoder					
ds c	ω Usage/storage temper	ature	0 to 55°C/–20 to 65°C					
asid	Usage/storage humidit	ty	90% RH or less (non-condensing)					
Ш	Altitude		1000 m or less above sea level					
\ddot{S} Vibration/shock resistance (max.) 5.88 m/s ² 10 to 60 Hz (Continuous operation at resonance point is not allowed)/19								
	Configuration		Base mounted					
	Approx. weight	kg		1.9		2.7	4.7	

General specifications

Pe	erformance	Frequency characteristics	2 kHz
ő	Command input CiA402 Drive profile		EtherCAT commands (for sequence, motion, data setting/reference, monitor, adjustment, and other commands).
EtherCAT interfac			Cyclic synchronous position mode Cyclic synchronous velocity mode Cyclic synchronous torque mode Touch probe function Torque limit function Homing mode
lal	Sequence input sig	nal	- Multi-function input × 8 by parameter setting (forward/reverse drive prohibition, emergency stop, external latch, origin proximity, forward/reverse torque limit, general purpose monitor inputs).
I/O sigr	Sequence output si	gnal	1 × servo drive error output 2 × multi-function outputs by parameters setting (servo ready, brake release, speed limit detection, force limit de- tection, zero speed detection, warning output, position completion, error clear attributed, remote output, speed detection, position command status, speed command status)
	USB	Interface	Personal computer/Connector mini-USB
	communications	Communications standard	Compliant with USB 2.0 standard
		Function	Parameter setting and status monitoring
	EtherCAT	Communications protocol	IEC 61158 Type 12, IEC 61800-7
	communications	Physical layer	100BASE-TX (IEEE802.3)
		Connectors	RJ45 × 2 ECAT IN: EtherCAT input × 1 ECAT OUT: EtherCAT output × 1
		Communications media	Category 5 or higher (cable with double, aluminium tape and braided shielding is recommended)
		Communications distance	Distance between nodes: 100 m max.
tions		LED indicators	RUN × 1 ERR × 1 L/A IN (Link/Activity IN) × 1 L/A OUT (Link/activity OUT) × 1
L L L	Automatic load iner	tia detection	Automatic motor parameter setting. One parameter rigidity setting.
d fi	Dynamic brake (DB)	Built-in. Operates during main power OFF, servo alarm, servo OFF or overtravel.
ate	Regenerative proce	ssing	Internal resistor included in models from 600 W to 5 kW. Regenerative resistor externally mounted (option).
Sgr	Overtravel (OT) pre	vention function	DB stop, deceleration stop or coast to stop during P-OT, N-OT operation
nte	Encoder divider fun	ction	Optional division possible
	Protective functions	;	Overcurrent, overvoltage, undervoltage, overspeed, overload, encoder error, overheat
	Analog monitor functions for supervision		Analog monitor of motor speed, speed reference, torque reference, command following error, analog input The monitoring signals to output and their scaling can be specified with parameters. Number of channels: 2 (Output voltage: ±10 VDC)
	Panel operator	Display functions	2 × digit 7-segment LED display shows the drive status, alarm codes, parameters
		Switches	2 × rotary switches for setting the node address
	CHARGE lamp		Lits when the main circuit power supply is turned ON.
1	Safety terminal	Functions	Safety Torque OFF function to cut off the motor current and stop the motor. Output signal for failure monitoring function.
		Conformed standards	EN ISO13849-1:2008 (PL- d, Performance Level d), IEC61800-5 -2:2007 (function STO, Safe Torque OFF), EN61508:2001 (Safety Integrity Level 2, SIL2), EN954-1:1996 (CAT3).
L	External encoder fe	edback	Serial signal and line-driver A-B-Z encoder

Servo drive part names



Note: The above picture shows 230 V servo drives models only. The 400 V servo drives have 24 VDC power input terminals for control circuit instead of L1C and L2C terminals.

I/O specifications

Terminals specifications

Symbol	Name	Function
L1	Main power supply input terminal	AC power input terminals for the main circuit
L2		
L3		Note: for single-phase servo drives connect the power supply input to L1 and L3.
L1C	Control power supply input terminal	AC power input terminals for the control circuit
L2C		(for 200V single/three-phase servo drives only).
24 V		DC power input terminals for the control circuit
0 V		(for 400V three-phase servo drives only).
B1	External regeneration resistor connection terminals	Servo drives below 750 W: no internal resistor is connected. Leave B2 and B3 open.
B2		Connect an external regenerative resistor between B1 and B2.
B3		Servo drives from 750 W to 5 kW: short-circuit in B2 and B3 for internal regenerative resistor. If the internal regenerative resistor is insufficient, connect an external regenerative resistor between B1 and B2 and remove the wire between B2 and B3.
U	Servo motor connection terminals	Terminals for outputs to the servomotor.
V		
W		

I/O signals (CN1) - Input signals

Pin No.	Signal name	Function			
6	I-COM	± pole of external DC power. The	power must use 12 V to 24 V	/ (±5%)	
5	E-STOP	Emergency stop		The signal name shows the factory setting. The function can be	
7	P-OT	Forward run prohibited		changed by parameter setting.	
8	N-OT	Reverse run prohibited			
9	DEC	Origin proximity			
10	EXT3	External latch input 3			
11	EXT2	External latch input 2			
12	EXT1	External latch input 1			
13	SI-MON0	General purpose monitor input 0	pose monitor input 0		
14	-	Terminals not used. Do not conne	ct.	·	
15	-				
17	-				
18	-				
19	-				
20	-				
21	-				
22	-				
23	-				
24	-				
-	PCL	Forward force limit	The function of input signals	s allocated to pins 5 and 7 to 13 can be changed with these options by	
	NCL	Reverse force limit	parameters settings.		
	SI-MON1	General-purpose monitor input 1			
	SI-MON2	General-purpose monitor input 2			
Shell	FG	Shield ground. Connected to frame	e ground if the shield wire of	the I/O signal cable is connected to the connector shell.	
16	GND	Signal ground. It is insulated with	oower supply (I-COM) for the	e control signal in the servo drive.	

I/O signals (CN1) - Output signals

Pin No.	Signal name	Function					
1	BRK-OFF+	External brake release signal					
2	BRK-OFF	7					
25	S-RDY+	Servo ready: ON when there is	vo ready: ON when there is no servo alarm and control/main circuit power supply is ON				
26	S-RDY-						
3	ALM+	Servo alarm: Turns OFF when an error is detected					
4	ALM–	7					
-	INP1	Position complete output 1	The function of output signals allocated to pins 1, 2, 25 and 26 can be changed with these options by				
	TGON	Motor speed detection	parameters settings				
	F_LIMIT	Force limit detection					
	ZSP	Zero speed					
	VCMP	Speed conformity output					
	WARN1	Warning 1					
	WARN2	Warning 2					
	PCMD	Position command status					
	INP2	Position complete output 2					
	VLIMIT	Speed limit detection					
	ALM-ATB	Error clear attribute					
	VCMD	Speed command status					
	R-OUT1	Remote output 1					
	R-OUT2	Remote output 1					

External encoder connector (CN4)

Pin No.	Signal name	Function			
1	E5V	External scale power supply output. Use at 5.2 V \pm 5% and at or below 250 mA.			
2	E0V	his is connected to the control circuit ground connected to connector CN1.			
3	PS	External scale signal I/O (serial signal).			
4	/PS				
5	EXA	External scale signal input (Phase A, B, and Z signals). Performs the input and output of phase A, B and Z signals.			
6	/EXA				
7	EXB				
8	/EXB				
9	EXZ				
10	/EXZ				
Shell	FG	Shield ground			

Monitor connector (CN5)

Pin No.	Signal name	Function
1	AM1	Analog monitor output 1. Outputs the analog signal for the monitor. Use the parameters setting to select the output to monitor. Default setting: Motor rotation speed 1 V/(500 mm/s).
2	AM2	Analog monitor output 2. Outputs the analog signal for the monitor. Use the parameters setting to select the output to monitor. Default setting: Motor rotation speed 1 V/(33% of nominal force).
3	GND	Ground for analog monitors 1,2.
4	-	Terminals not used. Do not connect.
5	-	
6	-	

Safety connector (CN8)

Pin No.	Signal name	Function
1	-	Not used. Do not connect.
2	-	
3	SF1-	Safety input 1 & 2. This input turns OFF the power transistor drive signals in the servo drive to cut off the current
4	SF1+	output to the motor.
5	SF2-	
6	SF2+	
7	EDM-	A monitor signal is output to detect a safety function failure.
8	EDM+	
Shell	FG	Frame ground.

Dimensions

Servo drives

R88D-KN02H-ECT-L (230 V, 200 W)



R88D-KN04H-ECT-L (230 V, 400 W)



R88D-KN08H-ECT-L (230 V, 800 W)



R88D-KN10H/15H-ECT-L (230 V, 1 to 1.5 kW)



R88D-KN06F/10F/15F-ECT-L (400 V, 600 W to 1.5 kW)



R88D-KN20F-ECT-L (400 V, 2 kW)



R88D-KN30F-ECT-L (400V, 3 kW)



Filters

Filter model	External dimensions			Mount dimensions		
	н	W	D	M1	M2	
R88A-FIK102-RE	190	42	44	180	20	
R88A-FIK104-RE	190	57	30	180	30	
R88A-FIK107-RE	190	64	35	180	40	
R88A-FIK114-RE	190	86	35	180	60	
R88A-FIK304-RE	196	92	40	186	70	
R88A-FIK306-RE	238	94	40	228	70	
R88A-FIK312-RE	291	130	40	278	100	



Installation

Single-phase, 230 VAC



*1 For serve drives from 750 W, B2 and B3 are short-circuited. If the internal regenerative resistor is insufficient, remove the wire between B2 and B3 and connect an external regenerative resistor between B1 and B2.

*2 Wiring diagram example using the G9SX safety unit. If a safety unit is not used, keep the factory safety bypass connector installed in the CN8.

Note: The input function of pins 5 and 7 to 13, and output function of pins 1, 2, 25 and 26, can be changed via parameter settings.

+24 V

Three-phase, 400 VAC



*1 Normally B2 and B3 are short-circuited. If the internal regenerative resistor is insufficient, remove the wire between B2 and B3 and connect an external regenerative resistor between B1 and B2.
*2 Wiring diagram example using the G9SX safety unit. If a safety unit is not used, keep the factory safety bypass connector installed in the CN8.

Note: The input function of pins 5 and 7 to 13, and output function of pins 1, 2, 25 and 26, can be changed via parameter settings.

Ordering information

Accurax G5 series EtherCAT reference configuration



Note: The symbols (1)(2)(3)(4)(5)... show the recommended sequence to select the components in Accurax G5 servo system

Servo motors, power & encoder cables

Note: (12) Refer to the Accurax linear motor chapter for linear motor, cables or connectors selection

Servo drives

Symbol	Specifications	Servo drive models	1 Compatible Accurax G5 Linear motors			
			Iron-core motors	Ironless motors	Linear motor axis	
3	1 phase 230 VAC	R88D-KN02H-ECT-L	R88L-EC-FW-0303-	R88L-EC-GW-0303-	R88L-EA-AF-0303-	
				R88L-EC-GW-0503-		
		R88D-KN04H-ECT-L	R88L-EC-FW-0306-	R88L-EC-GW-0506-	R88L-EA-AF-0306-	
				R88L-EC-GW-0703-		
		R88D-KN08H-ECT-L	R88L-EC-FW-0606-	R88L-EC-GW-0306-	R88L-EA-AF-0606-	
				R88L-EC-GW-0509-		
				R88L-EC-GW-0706-		
		R88D-KN10H-ECT-L	R88L-EC-FW-0609-	R88L-EC-GW-0309-	R88L-EA-AF-0609-	
				R88L-EC-FW-0709-		
		R88D-KN15H-ECT-L	R88L-EC-FW-0612-	-	R88L-EA-AF-0612-	
			R88L-EC-FW-1112-		R88L-EA-AF-1112-	
			R88L-EC-FW-1115-		R88L-EA-AF-1115-	
	3 phase 400 VAC	R88D-KN06F-ECT-L	R88L-EC-FW-0303-	-	R88L-EA-AF-0303-	
	- I	R88D-KN10F-ECT-L	R88L-EC-FW-0306-	-	R88L-EA-AF-0306-	
		R88D-KN15F-ECT-L	R88L-EC-FW-0606-	-	R88L-EA-AF-0606-	
		R88D-KN20F-ECT-L	R88L-EC-FW-0609-	-	R88L-EA-AF-0609-	
		R88D-KN30F-ECT-L	R88L-EC-FW-0612-	-	R88L-EA-AF-0612-	
			R88L-EC-FW-1112-		R88L-EA-AF-1112-	
			R88L-EC-FW-1115-		R88L-EA-AF-1115-	

Signals cables for I/O general purpose (CN1)

Symbol	Description	Connect to		Model
4	I/O connector kit (26 pins)	For I/O general purpose	-	R88A-CNW01C
5	I/O signals cable	For I/O general purpose	1 m	R88A-CPKB001S-E
			2 m	R88A-CPKB002S-E
6	Terminal block cable	For I/O general purpose	1 m	XW2Z-100J-B34
			2 m	XW2Z-200J-B34
7	Terminal block (M3 screw and for pin terminals)		_	XW2B-20G4
	Terminal block (M3.5 screw and for fork/round terminals)		-	XW2B-20G5
	Terminal block (M3 screw and for fork/round terminals)		-	XW2D-20G6

External encoder cable (CN4)

Symbol	Name		Model
8	External encoder cable	5 m	R88A-CRKM005SR-E
-		10 m	R88A-CRKM010SR-E
		20 m	R88A-CRKM020SR-E

Analog monitor (CN5)

Symbol	Name		Model
9	Analog monitor cable	1 m	R88A-CMK001S

USB personal computer cable (CN7)

Symbol	Name		Model
10	USB mini-connector cable	2 m	AX-CUSBM002-E

Cable for safety (CN8)

Symbol	Name		Model
(11)	Safety cable	3 m	R88A-CSK003S-E

Machine controller

S

0			84.1.1
Symbol	Name		Model
(12)	IPC machine	Industrial box PC type	NY512-
	controller	Industrial panel PC type	NY532-🗆
	NX7 series	CPU unit	NX701-
		Power supply unit	NX-PA9001 (220 VAC)
			NX-PD7001 (24 VDC)
	NJ series	CPU unit	NJ501-
			NJ301-
			NJ101-
		Power supply unit	NJ-PA3001 (220 VAC)
			NJ-PD3001 (24 VDC)
	NX1 series	CPU unit	NX1P2-

External regenerative resistor

Symbol	Regenerative resistor unit model	Specifications
(13)	R88A-RR08050S	50 Ω, 80 W
_	R88A-RR080100S	100 Ω, 80 W
	R88A-RR22047S	47 Ω, 220 W
	R88A-RR50020S	20 Ω, 500 W

Filters

Symbol	Applicable servodrive	Filter model	Manufacturer	Rated current	Leakage current	Rated voltage
14	R88D-KN02H-ECT-L	R88A-FIK102-RE	Rasmi	2.4 A	3.5 mA	250 VAC single-phase
	R88D-KN04H-ECT-L	R88A-FIK104-RE	Electronics Ltd.	4.1 A	3.5 mA	
	R88D-KN08H-ECT-L	R88A-FIK107-RE		6.6 A	3.5 mA	
	R88D-KN10H-ECT-L, R88D-KN15H-ECT-L	R88A-FIK114-RE		14.2 A	3.5 mA	
	R88D-KN06F-ECT-L, R88D-KN10F-ECT-L, R88D-KN15F-ECT-L	R88A-FIK304-RE		4 A	0.3 mA/32 mA ^{*1}	400 VAC three-phase
	R88D-KN20F-ECT-L	R88A-FIK306-RE		6 A	0.3 mA/32 mA ^{*1}	
	R88D-KN30F-ECT-L	R88A-FIK312-RE		12.1 A	0.3 mA/32 mA ^{*1}	

^{*1} Momentary peak leakage current for the filter at switch-on/off.

Connectors

Specifications	Model
External encoder connector (for CN4)	R88A-CNK41L
Safety I/O signal connector (for CN8)	R88A-CNK81S

Computer software

Specifications	Model
Sysmac Studio version 1.0 or higher	SYSMAC-SE2
CX-Drive version 2.60 or higher	CX-DRIVE 2.60

Note: If CX-One is installed on the same computer as Sysmac Studio, it must be CX-One v4.2 or higher

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. SysCat_I165E-EN-03 In the interest of product improvement, specifications are subject to change without notice.

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