PACMotion™ High Speed Servo Motion Control

Integrated, Scalable, and Precise Control

Emerson provides flexible, easy to use, end-toend solutions perfect for discrete manufacturing and hybrid control. PACMotion servo motion control continues this approach with high-speed motion, tighter control, and simple integration.

The PACMotion family gives you the ability to increase throughput, improve yield, and reduce expenses while minimizing development costs.

Fully Integrated for System Simplicity

PACMotion is tightly integrated with Emerson PACSystems RX3i and PAC Machine Edition engineering tool. With motion, HMI, PLC, and machine logic events integrated into the same view, PACMotion streamlines synchronization for simple setup, maintenance, and troubleshooting. Standard motion blocks make it easy to assemble applications and operators can even dynamically change motion profiles. This gives you the ability to manage smaller lot sizes and rapid changeovers for increased machine utilization.

High Speed, Precision Control

To facilitate quick and easy implementation, PACMotion uses the open EtherCAT communications protocol. Widely considered the standard for motion control, EtherCAT communications provides the peace of mind that all PACMotion products will work cohesively with your existing, and future, motion control technology.

Scalability and Flexibility

BSpeed is critical for effective motion control, and PACMotion communicates across a 1 Gigabit per second throughput backplane for higher speeds than traditional networks. In fact, communications, position, and path planner loops are updated in quarter, half, and single millisecond intervals respectively. Utilizing a backplane also allows PACMotion to be a directly scalable solution. PACMotion's performance is maintained as you expand so update loops remain constant whether your



system requires 4 axes or 40. This ensures that you never have to worry about performance degradation.

Three Components, One Solution

The PACMotion High Speed Servo Motion Control portfolio combines servo drives, and servo motors, with the PMM345 motion controller to create a single powerful solution.

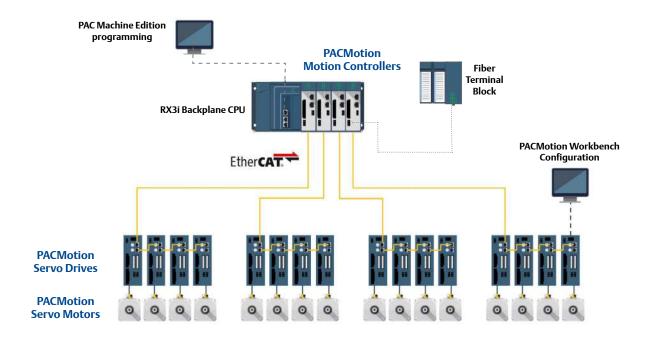
PACMotion offers high-speed, reliable, and easy to use systems. At Emerson, we're a complete automation provider delivering a powerful and comprehensive portfolio of automation technology. We partner with end users to expand operations while tightening supply chain control.

Easy Upgrade Path

For users with previous generations of PACMotion solutions, we've ensured the migration process is simple and painless. The PMM345 Motion Controller is the same footprint and utilizes the same motion commands as it's PMM335 predecessor so you can easily upgrade. We also offer the intuitive PACMotion Workbench software for easy servo drive configuration, and a PACMotion Servo Sizing App to easily select the perfect motor for every situation.



System Architecture



PACMotion Motion Controller

Dedicated processor which enables PACSystems™ RX3i servo motion control and coordinates with PACMotion Servo Drives

Features	Benefits				
Fast motion path planning (1ms), position (500µs), and communications (250µs) update rates	Improved accuracy and faster response to changing control requirements				
Built on open EtherCAT communications	Easily integrate your existing, and future, motion control technology				
Consistent motion update rate regardless of the number of axes	Scalability without worries of performance degradation				
Patented JerkFree technology	Faster settling to final motion positions and prevents material slippage at any point in the motion execution				
Double precision (64-bit) floating point	Advanced motion programming and control				
5 axes per controller: 4 physical and 1 virtual	50 coordinated axes of control in a single system: 40 physical and 10 virtual				
Optional Fiber Terminal Block (FTB) allows distributed motion-centric I/O	Reduced wiring complexity and cost				
Change motion profiles on the fly	Ability to manage smaller lot sizes and rapid changeovers				
Same footprint as PMM335 predecessor	Modernization in hours, not days				



PACMotion Servo Drives

Compact and powerful drives, perfect for driving synchronous servomotors with closed-loop control of torque, speed, and position

Features	Benefits
Drives covering 1,100 W – 16,000W of output current ratings	Multiple options to best fit your application
Built on open EtherCAT communications	Easily integrate your existing, and future, motion control technology
Safe Torque Off (STO) according to IEC 62061 SIL 2 onboard	Constant emphasis on operator safety
Designed for PACMotion Servo motors, but can also support 3rd-party motors	Seamlessly integrates into any motion application
Synchronized clocks with the motion controller	Entire system is synchronized to ensure all components work together









PACMotion Servo Motors

Designed for a wide variety of servo motion needs including industrial robots, machine tools, textile/packing machinery and similar dynamic applications

Features	Benefits
Several sizes and customizations available	Multiple options to best fit your application
Built on open EtherCAT communications	Easily integrate your existing, and future, motion control technology
Functional replacements for FANUC motors	Modernization in hours, not days
Low inertia	Move to new positions quickly
Option for single cable connection	Save time on maintenance and installation
Exceptionally low cogging and harmonic distortion	Ensures smooth performance









PACMotion Software Suite

Tool	Function
PAC Machine Edition (PME)	A single programming solution for your entire automation portfolio, PME ensures streamlined deployment and management of all PACSystems and PACMotion devices. With PME you can program your high-speed servo motion control applications and your HMI, PLC, and machine logic all in the same view. PME also provides pre- defined, re-usable modules for reduced programming and configuration costs.
PACMotion Workbench	Integrated within PME, PACMotion Workbench offers features like device discovery and servo tuning to help you configure your PACMotion Servo Drives. PACMotion Workbench has been designed for a simple user experience and even provides detailed connection diagrams to aid in troubleshooting. With an intuitive layout and comprehensive instructions, deploying a servo drive has never been easier. PACMotion™ Workbench Quick Start Court a use Planted from a report reference to the provided of the part of the
PAC Motion Servo Sizing Application	To ensure you always choose the right motor for your application, the PAC Motion Servo Sizing App is available to all PACMotion users. This tool aids in motion design by providing users a graphical interface to match PACMotion Servo Motors with various tools and products. Components like lead screws, timing belts, gear boxes, and electrical motors are all included. As users input key parameters like diameter of gears/pulleys, ratio of gear box, and load, the PAC Motion Servo Sizing App determines which motor is right for the job.

Specifications PMM345 Motion Controller

Specification	Value	Additional Details		
Motion Path Planning Update Rate	1ms	Consistent update regardless of the number of axes in the system		
Position Loop Update Rate	500μs	All axes in the RX3i rack are updated simultaneous		
Communications Loop Update Rate	250μs	All axes in the RX3i rack are updated simultaneously		
Controlled Axes / Module	4	PACMotion servo motors (IC830M-) are supported via an EtherCAT interface		
Master Axes / Module	1	Can be a virtual time-based or incremental encoder master		
Servo Command Interface	EtherCAT (RJ45, CAT5e shielded or better)	100Mb/s data transfer		
Maximum Axes per RX3i	40 + 10 master axes	Requires 16 slot backplane, CPU and 2 power supplies (AC or DC)		
Position Resolution:	1,000,000 counts/rev	Consistent regardless of encoder type		
Accuracy by Encoder Type:				
Smart Feedback Device (SFD3)	±9 arcmin ± 0.1500 degrees	Single-turn absolute encoder – Single Cable		
Hiperface DSL	±1.33 arcmin ± 0.0222 degrees	Multi-turn absolute encoder – Single Cable		
BiSS Multi-turn	±0.6 arcmin ± 0.0100 degrees	Multi-turn absolute encoder – Dual Cable (Bidirectional/Serial/Synchronous)		
Feedback Type	Incremental/Absolute Serial Encoder	Battery backup required for absolute feedback mode		
Faceplate I/O: 24V General Purpose Inputs	4 optically isolated; source/sink	_		
24V High-Speed Inputs	2 optically isolated; source/sink	Open circuit detection; can be used to connect a quadrature master encoder (500 kHz max)		
24V General Purpose Inputs/Outputs	2 optically isolated; source/sink	125mA maximum output current each		
Connector	Plug-on Screw Terminal			
Floating Point Support	Yes	Double precision IEEE 754		
Cam Profiles per Module	256 at one time	Up to 2048 profiles can be stored in the RX3i file system for use by any module		
Synch/Delayed Start	Up to 8 axes	Axes can be on any module and are synchronized over the backplane. Ensures motion function blocks are executed on the same sample or at a specific offset		
High Speed Position Capture	2 Inputs per axis	Configured as touch probes		
Certifications	ATEX, CE	_		

PACMotion Servo Drives

		Value by Drive Part Number: IC830DPNBEC							
Specification	Units	00306	00606	01206	02406	00307	00607	01207	02407
Drive Continuous Output Power	Watts	1100	2000	4000	8000	2000	4000	8000	16,000
Rated Supply Voltage	Vac	120/240				240/480			
Voltage Range	Vac	85-265				187-528			
Bus Voltage	Vdc			rms (continuincoming AC		nternal settir	ıgs necessary	/)	
Control Logic, Supply Voltage	V	24							
Rated Output Current (RMS value ±3%)	A	3	6	12	24	3	6	12	24
Peak Output Current (±3%)	A	9	18	30	48	9	18	30	48
Peak Time	S	5							
Current Loop Bandwidth Max.	kHz	2.5 to 4		2 to 3		2.5 to 4		2 to 3	
Velocity Loop Bandwidth Max.	Hz	0 to 1000		0 to 800	0 to 600	0 to 800			0 to 600
Position Loop Bandwidth Max.	Hz	1 to 250							
Update Rate	MHz	1.5							
Weight (Standard Width)	Kg	1.1		2	3.7	2.7			5.3
Weight (Extended Width)	Kg	1.3		2.2	4	2.9			5.5
Height, without Connectors	mm	168		196	248	256		306	385
Height, with Connector	mm	200		225	280	290		340	526
Standard Width Front/Back	mm	54/59		72/78.4	96/100	65/70		99/105	185/185
Extended Width Front/Back	mm	84/89		91/96	96/100	95/100	95/100		_
Depth, without Connectors	mm	156		187	228	185		228	225
Depth, with Connectors	mm	185		<215	<265	<225	<225 <265		<265

PACMotion Servo Motors- Frame Size 2 PerformanceData

		Specification	Symbol	Units	IC830M21C-	IC830M22E-	IC830M23E-	IC830M24F-
		PACMotion Servo Drive Compatibility	-	-	120/240V Drives only	120/240V Drives only	120/240V Drives only	120/240V Drives only
		Max Rated DC Bus Voltage	Vbus	Vdc	320	320	320	320
		Continuous Torque (Stall) for ΔT	Tcs	Nm	0.48	0.87	1.16	1.42
		winding = 100°C *[1,2,7,8,9]		Ib-in	4.2	7.7	10.3	12.6
		Continuous Current (Stall) for ∆T	lcs	Arms	1.58	2.73	2.78	3.89
		winding = 100°C *[1,2,7,8,9]						
		Continuous Torque (Stall) for ∆T	Tcs	Nm	0.38	0.70	0.93	1.14
		winding = 60°C *[1,2,7,8,9]		Ib-in	3.4	6.2	8.23	10.1
		Max Mechanical Speed*[5]	Nmax	rpm	8000	8000	8000	8000
		Peak Torque *[1,2]	Тр	Nm	1.47	2.76	3.86	4.82
				lb-in	13.0	24.4	34.2	42.7
		Peak Current	lp	Arms	6.3	10.9	11.1	15.6
		Rated Torque (speed)	Trtd	Nm	0.46	0.81	1.1	1.33
	οp	*[1,2,7,8,9,10]		lb-in	4.0	7.1	9.7	11.8
	160 Vdc	Rated Speed	Nrtd	rpm	2500	3500	2500	3000
	_	Rated Power (speed)	Prtd	kW	0.12	0.30	0.29	0.42
		*[1,2,7,8,9]		Нр	0.16	0.40	0.39	0.56
		Rated Torque (speed) *[1,2,7,8,9,10]	Trtd	Nm	0.39	.70	0.98	1.12
d)	320 Vdc		Nint	lb-in	3.4	6.2	8.7	9.9
tag	320	Rated Speed	Nrtd	rpm	8000	8000	6500	8000
Drive DC Bus Voltage	"	Rated Power (speed) *[1,2,7,8,9]	Prtd	kW	0.32	0.59	0.67	0.94
Bus			Trtd	Hp Nm	0.43	0.79	0.89	1.26
DO		Rated Torque (speed) *[1,2,7,8,9,10]	IIIu	lb-in	- -	- _	_	-
rive	560 Vdc	Rated Speed	Nrtd	rpm	-	-	-	-
_	260	Rated Power (speed)	Prtd	kW			_	_
		*[1,2,7,8,9]	1110	Нр	_		-	-
		Rated Torque (speed)	Trtd	Nm	-	-	-	-
	بر	*[1,2,7,8,9,10]		lb-in	-	-	-	-
	640 Vdc	Rated Speed	Nrtd	rpm	-	-	-	-
	64	Rated Power (speed)	Prtd	kW	-	-	-	-
		*[1,2,7,8,9]		Нр	-	-	-	-
		Torque Constant (± 10%) *[1]	Kt	Nm/Arms	0.30	0.32	0.42	0.36
				lb-in/Arms	2.7	2.8	3.7	3.2
		Back EMF Constant (± 10%) *[6]	Ke	V/krpm	19.5	20.4	27.0	23.4
		Motor Constant	Km	N-m/√W	0.0679	0.114	0.147	0.171
				lb-in/√W	0.601	1.01	1.30	1.52
		Resistance (line-line) (± 10%) *[6]	Rm	ohm	13	5.22	5.44	2.94
		Inductance (line-line)	L	mH	19	9.7	11.1	6.16
		Inertia (includes Resolver	Jm	kg-cm2	0.11	0.16	0.22	0.27
		feedback) (± 10%) *[3]		lb-in-s2	9.5E-05	1.4E-04	1.9E-04	2.4E-04
		Optional Brake Inertia (additional) (± 10%)	Jm	kg-cm2	0.012	0.012	0.012	0.012
				lb-in-s2	1.1E-05	1.1E-05	1.1E-05	1.1E-05
		Weight	W	kg	0.82	1.1	1.38	1.66
		Static Friction *[1 10]	Tf	lb Nm	0.002	0.005	0.007	3.7 0.01
		Static Friction *[1,10]	''	lb-in	0.002	0.003	0.06	0.01
		Viscous Damping	Kdv	Nm/krpm	0.0046	0.0055	0.0065	0.0074
		*[1]		lb-in/krpm	0.04	0.05	0.06	0.07
		Thermal Time Constant	TCT	minutes	8	9	1.	11
		Thermal Resistance	Rthw-a	°C/W	1.43	1.19	1.10	1.07
			-	-	3			
		Pole Pairs	-	-	3	3	3	3

PACMotion Servo Motors – Frame Size 4 Performance Data

		Specification	Symbol	Units	IC830M41E	IC830M42E	IC830M42G	IC830M42H	IC830M43G	IC830M43K
		PACMotion Servo Drive Compatibility	-	-	All Drives					
		Max Rated DC Bus Voltage	Vbus	Vdc	640	640	640	640	640	640
		Continuous Torque (Stall) for ΔT	Tcs	Nm	2.02	3.42	3.53	3.54	4.80	4.90
		winding = 100°C *[1,2,7,8,9]		Ib-in	17.9	30.3	31.2	31.3	42.5	43.4
		Continuous Current (Stall) for ∆T winding = 100°C *[1,2,7,8,9]	lcs	A(rms)	2.85	2.74	4.80	6.0	48.7	9.60
		Continuous Torque (Stall) for ΔT	Tcs	Nm	1.62	2.74	2.82	2.83	3.84	3.92
		winding = 60°C *[2]		Ib-in	14.3	24.2	25.0	25.0	34.0	34.7
		Max Mechanical Speed*[5]	Nmax	rpm	6000	6000	6000	6000	6000	6000
		Peak Torque *[1,2]	Тр	Nm	6.28	11.3	11.5	13.34	16.1	16.4
				lb-in	55.6	99.7	102	118.1	142.5	145.2
		Peak Current	lp	Arms	11.4	11.0	19.2	30	19.5	38.4
		Rated Torque (speed)	Trtd	Nm	1.94	-	-	3.03	-	4.08
	<u>ပ</u>	*[1,2,7,8,9,10] ´		lb-in	17.2	-	-	26.8	-	4.08
	160 Vdc	Rated Speed	Nrtd	rpm	1200	-	-	2000	-	2500
	16	Rated Power (speed)	Prtd	1200	0.24	-	-	0.67	-	1.07
		*[1,2,7,8,9] ` ´		-	0.33	-	-	0.90	-	1.43
		Rated Torque (speed)	Trtd	-	1.82	3.12	2.90	2.72	4.00	2.62
	မွ	*[1,2,7,8,9,10]		2000	16.1	27.6	25.7	24.1	35.4	23.2
agi	320 Vdc	Rated Speed	Nrtd	-	3000	1800	3500	4500	2500	6000
Drive DC Bus Voltage	32	Rated Power (speed)	Prtd	2500	0.57	0.59	1.06	1.28	1.05	1.65
us V		*[1,2,7,8,9]		Нр	0.77	0.79	1.42	1.72	1.41	2.21
C B		Rated Torque (speed)	Trtd	Nm	1.58	2.81	2.35	-	3.01	-
ive [əp	*[1,2,7,8,9,10]		lb-in	14.0	24.9	20.8	-	26.6	-
Ρ	560 Vdc	Rated Speed	Nrtd	rpm	6000	3500	6000	-	5000	-
	2(Rated Power (speed)	Prtd	kW	0.99	1.03	1.48	-	1.58	-
		*[1,2,7,8,9]		Нр	1.33	1.38	1.98	-	2.1	-
		Rated Torque (speed)	Trtd	Nm	1.58	2.72	2.35	-	2.57	-
	p/	*[1,2,7,8,9,10]		lb-in	14.0	24.1	20.8	-	22.7	-
	640 Vdc	Rated Speed	Nrtd	rpm	6000	4000	6000	-	6000	-
	9	Rated Power (speed)	Prtd	kW	0.99	1.14	1.48	-	1.61	-
		*[1,2,7,8,9]		Нр	1.33	1.53	1.98	-	2.2	-
		Torque Constant (± 10%) *[1]	Kt	Nm/Arms	0.71	1.26	0.74	0.59	0.99	0.52
				lb-in/Arms	6.3	11.2	6.5	5.22	8.76	4.6
		Back EMF Constant (± 10%) *[6]	Ke	V/krpm	45.6	80.9	47.5	38.3	63.9	33.2
		Motor Constant	Km	N-m/√W	0.236	0.369	0.381	-	-	-
				lb-in/√W	2.09	3.26	3.37	-	-	-
		Resistance (line-line) (± 10%) *[6]	Rm	ohm	6.02	7.78	2.51	1.65	2.61	0.74
		Inductance (line-line)	L	mH	18.4	26.8	9.2	6.0	10.8	2.9
		Inertia (includes Resolver	Jm	kg-cm2	0.81	1.5	1.5	1.5	2.1	2.1
		feedback) (± 10%) *[3]		lb-in-s2	7.2E-04	1.3E-03	1.3E-03	1.3E-03	1.8E-03	1.8E-03
		Optional Brake Inertia (additional)	Jm	kg-cm2	0.068	0.068	0.068	0.068	0.068	0.068
		(± 10%)		lb-in-s2	6.0E-05	6.0E-05	6.0E-05	6.0E-05	6.0E-05	6.0E-05
		Weight	W	kg	2.44	3.39	3.39	3.39	4.35	4.35
				lb	5.4	7.5	7.5	7.5	9.8	9.8
		Static Friction *[1,10]	Tf	Nm	0.014	0.026	0.026	0.026	0.038	0.038
				lb-in	0.12	0.23	0.23	0.23	0.34	0.34
		Viscous Damping *[1]	Kdv	Nm/krpm	0.009	0.013	0.013	0.013	0.017	0.017
			TCT	lb-in/krpm	0.08	0.12	0.12	0.12	0.15	0.15
		Thermal Time Constant	TCT	minutes	13	17	17	17	20	20
		Thermal Resistance	Rthw-a	°C/W	0.97	0.80	0.80	0.80	0.70	0.70
		Pole Pairs	-	-	5	5	5	5	5	5

PACMotion Servo Motors – Frame Size 6 Performance Data

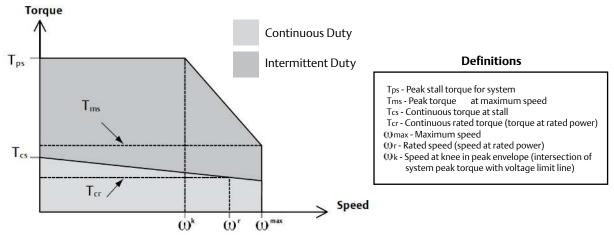
		Specification	Symbol	Units	IC830M62H	IC830M62K	IC830M62L	IC830M62M	IC830M63L	IC830M63M
		PACMotion Servo Drive	-	-	All Drives	All Drives	All Drives	All Drives	All Drives	All Drives
		Compatibility								
		Max Rated DC Bus Voltage	Vbus	Vdc	640	640	640	640	640	640
		Continuous Torque (Stall) for ΔT	Tcs	Nm	11.9	12.2	12.2	12.2	16.8	17.0
		winding = 100°C *[1,2,7,8,9]		lb-in	105	108	108	108	149	150
		Continuous Current (Stall) for ΔT winding = 100°C *[1,2,7,8,9]	lcs	A(rms)	5.4	9.6	12.0	13.4	11.1	13.8
		Continuous Torque (Stall) for ΔT	Tcs	Nm	9.5	9.8	9.8	9.72	13.4	13.6
		winding = 60°C *[1,2,7,8,9]		Ib-in	84	86.7	87	86.0	119	120
		Max Mechanical Speed*[5]	Nmax	rpm	6000	6000	6000	6000	6000	6000
		Peak Torque *[1,2]	Тр	Nm	29.6	41.2	30.1	30.2	42.6	43.0
				lb-in	262	365	266	267	377	381
		Peak Current	lp	Arms	16.2	48.0	36.0	40.3	33.3	41.4
		Rated Torque (speed)	Trtd	Nm	-	-	-	-	-	-
	/dc	*[1,2,7,8,9,10]		lb-in	-	-	-	-	-	-
	160 Vdc	Rated Speed	Nrtd	rpm	-	-	-	-	-	-
	_	Rated Power (speed) *[1,2,7,8,9]	Prtd	kW	-	-	-	-	-	-
				Нр	-	-	-	-	-	-
		Rated Torque (speed) *[1,2,7,8,9,10]	Trtd	Nm lb-in	10.8	92	10.0	9.50	14.2 126	14.3
d)	320 Vdc	Rated Speed	Nrtd	rpm	1000	2000	2500	3000	1500	2000
tage	320	'		•					2.23	
Vol		Rated Power (speed) *[1,2,7,8,9]	Prtd	kW Hp	1.17	2.18	3.51	2.98 4.00	2.23	2.99 4.01
Bus		Rated Torque (speed)	Trtd	Nm	10.2	9.0	7.42	5.70	12.9	11.3
DC:		*[1,2,7,8,9,10]	IIId	lb-in	90.3	79.7	65.7	50.4	114	100
Drive DC Bus Voltage	260 Vdc	Detect Council	Nintal	-	2000	3500	5000	6000	3000	4000
		Rated Speed	Nrtd	rpm		-				
		Rated Power (speed) *[1,2,7,8,9]	Prtd	kW	2.14	3.30	3.89 5.21	3.58 4.80	4.05 5.43	4.73 6.34
		Rated Torque (speed)	Trtd	Hp Nm	9.9	9.0	5.74	5.70	12.0	10.5
	u	*[1,2,7,8,9,10]	IIIu	lb-in	87.6	79.7	50.8	50.4	106	92.9
	640 Vdc	Rated Speed	Nrtd	rpm	2400	4500	6000	6000	3500	4500
	640	Rated Power (speed)	Prtd	kW	2.49	3.77	3.61	3.58	4.4	4.95
		*[1,2,7,8,9]	l i i cu	Нр	3.34	5.06	4.84	4.80	5.90	6.63
		Torque Constant (± 10%) *[1]	Kt	Nm/Arms	2.2	1.28	1.0	0.91	1.5	1.24
				lb-in/Arms	19.5	11.3	8.85	8.1	13.3	11.0
		Back EMF Constant (± 10%) *[6]	Ke	V/krpm	142	82.1	65.5	58.8	98.2	79.9
		Motor Constant	Km	N-m/√W	0.989	-	0.949	0.984	1.26	1.30
				lb-in/√W	8.75	-	8.40	8.71	11.2	11.5
		Resistance (line-line) (± 10%) *[6]	Rm	ohm	3.3	1.08	0.74	0.57	0.94	0.61
		Inductance (line-line)	L	mH	25.4	8.5	5.4	4.4	7.4	4.9
		Inertia (includes Resolver	Jm	kg-cm2	17	17	17	17	24	24
		feedback) (± 10%) *[3]		lb-in-s2	0.015	0.015	0.015	0.015	0.021	0.021
		Optional Brake Inertia (addition-	Jm	kg-cm2	0.61	0.61	0.61	0.61	0.61	0.61
		al) (± 10%)		lb-in-s2	5.4E-04	5.4E-04	5.4E-04	5.4E-04	5.4E-04	5.4E-04
		Weight	W	kg	8.9	8.9	8.9	8.9	11.1	11.1
				lb	19.6	19.6	19.6	19.6	24.4	24.4
		Static Friction *[1,10]	Tf	Nm	0.05	0.05	0.05	0.05	0.1	0.1
				lb-in	0.44	0.44	0.44	0.44	0.9	0.9
		Viscous Damping *[1]	Kdv	Nm/krpm	0.04	0.04	0.04	0.04	0.06	0.06
			TCT	lb-in/krpm	0.35	0.35	0.35	0.35	0.53	0.53
		Thermal Time Constant	TCT	minutes	20	20	20	20	25	25
		Thermal Resistance	Rthw-a	°C/W	0.46	0.46	0.46	0.46	0.41	0.41
		Pole Pairs	-	-	5	5	5	5	5	5

PACMotion Servo Motors – Frame Size 7 Performance Data

		Specification	Symbol	Units	IC830M72L	IC830M72P	IC830M72Q	IC830M72R	IC830M73P	IC830M73Q	IC830M74Q
		PACMotion Servo Drive Compatibility	-	-	All Drives	All Drives	All Drives	120/240V Drives only	All Drives	All Drives	All Drives
	İ	Max Rated DC Bus Voltage	Vbus	Vdc	640	640	640	320	640	640	640
	ı	Continuous Torque (Stall) for ∆T	Tcs	Nm	30	29.4	29.5	29.8	41.6	41.5	52.2
		winding = 100°C *[1,2,7,8,9]		Ib-in	266	260	261	263.7	368	367	426
		Continuous Current (Stall) for ΔT winding = 100°C *[1,2,7,8,9]	lcs	Arms	11.5	18.7	23.5	33.1	19.5	24.5	26.1
		Continuous Torque (Stall) for ΔT	Tcs	Nm	24	23.5	23.6	23.8	33.3	33.2	41.8
		winding = 60°C *[1,2,7,8,9]		Ib-in	212	208	209	210.6	295	294	370
		Max Mechanical Speed*[5]	Nmax	rpm	6000	6000	6000	6000	6000	6000	6000
		Peak Torque *[1,2]	Тр	Nm	79.5	78.5	78.4	79.2	111	111	141
				lb-in	70.4	695	694	701	985	982	1250
		Peak Current	lp	Arms	34.5	56.1	70.5	99.3	58.6	73.5	78.3
		Rated Torque (speed)	Trtd	Nm	-	-	-	25.1	-	-	-
-	υp/	*[1,2,7,8,9,10]		lb-in	-	-	-	222	-		-
3	PO Vdc	Rated Speed	Nrtd	rpm	-	-	-	1500	-	-	-
'		Rated Power (speed)	Prtd	kW	-	-	-	3.94	-	-	-
		*[1,2,7,8,9]		Нр	-	-	-	5.29	-	-	-
		Rated Torque (speed)	Trtd	Nm	-	23.8	23.3	19.4	34.7	33.4	42.8
-	ğ	*[1,2,7,8,9,10]		lb-in	-	211	205	171.7	307	296	379
Drive DC Bus voicage	320 Vdc	Rated Speed	Nrtd	rpm	-	1800	2000	3250	1300	1500	1200
	m	Rated Power (speed)	Prtd	kW	-	4.49	4.86	8.85	4.72	5.25	5.38
		*[1,2,7,8,9]		Нр	-	6.01	6.52	6.60	6.33	7.04	7.21
3		Rated Torque (speed) *[1,2,7,8,9,10]	Trtd	Nm	25.3	20.1	16.3	-	28.5	25.2	31.5
A -	ğ	[1,2,7,8,9,10]		lb-in	224	178	144	-	252	223	279
	ģ	Rated Speed	Nrtd	rpm	1500	3000	4000	-	2400	3000	2500
Ι,	^	Rated Power (speed)	Prtd	kW	3.97	6.31	6.83	-	7.16	7.92	8.25
		*[1,2,7,8,9]		Нр	5.32	8.46	9.16	-	9.60	10.6	11.1
		Rated Torque (speed) *[1,2,7,8,9,10]	Trtd	Nm	24.3	18.2	14.1	-	26.3	22.0	27.3
	ÿ			lb-in	215	161	125	-	233	195	242
	640 Vac	Rated Speed	Nrtd	rpm	1800	3500	4500	-	2800	3500	3000
\ \ \	٥	Rated Power (speed)	Prtd	kW	4.58	6.67	6.65	-	7.71	8.07	8.58
		*[1,2,7,8,9]		Нр	6.14	8.94	8.91	-	10.3	10.8	11.5
		Torque Constant (± 10%) *[1]	Kt	Nm/Arms	2.6	1.58	1.3	0.9	2.13	1.7	2.0
				lb-in/Arms	23.0	14.0	11.5	8.0	18.9	15	17.7
		Back EMF Constant (± 10%) *[6]	Ke	V/krpm	169	102	81.2	58.3	137	109	129
		Motor Constant	Km	N-m/√W	2.21	2.18	2.08	-	2.82	2.67	3.27
				lb-in/√W	19.6	19.3	18.4	-	25.0	23.6	28.9
		Resistance (line-line) (± 10%) *[6]	Rm	ohm	0.92	0.35	0.26	0.12	0.38	0.25	0.25
		Inductance (line-line)	L	mH	13.6	5.0	3.2	1.63	5.9	3.7	3.8
		Inertia (includes Resolver	Jm	kg-cm2	65	65	65	65	92	92	120
		feedback) (± 10%) *[3]		lb-in-s2	0.057	0.057	0.057	0.057	0.082	0.082	0.11
	Ì	Optional Brake Inertia	Jm	kg-cm2	1.64	1.64	1.64	1.64	1.64	1.64	1.64
		(additional) (± 10%)		lb-in-s2	1.46 x 10-3	1.46 x 10-3	1.46 x 10 -3	1.46 x 10 -3	1.46 x 10 -3	1.46 x 10 -3	1.46 x 10-3
		Weight	W	kg	19.7	19.7	19.7	19.7	26.7	26.7	33.6
				lb	43.4	43.4	43.4	43.4	58.8	58.8	74.0
		Static Friction *[1,10]	Tf	Nm	0.16	0.16	0.16	0.16	0.24	0.24	0.33
	ļ			lb-in	1.4	1.4	1.4	1.4	2.1	2.1	2.9
		Viscous Damping	Kdv	Nm/krpm	0.06	0.06	0.06	0.06	0.13	0.13	0.2
		*[1]		lb-in/krpm	0.5	0.5	0.5	0.5	1.2	1.2	1.8
		Thermal Time Constant	TCT	minutes	46	46	46	46	53	53	60
		Thermal Resistance	Rthw-a	°C/W	0.39	0.39	0.39	0.39	0.33	0.33	0.30
	İ	Pole Pairs		_	5	5	5	5	5	5	5

PACMotion Servo Motors – Performance Data Notes

Torque-speed Curve Calculations:



Motor Compatibility and Sizing:

All motors will operate with the 120/240Vac drives. Motors with 320V Max DC Bus Voltage are not compatible with 240/480Vac drives. The Servo motor's Continuous Current is the key metric in properly sizing your drive.

Drive DC Bus Voltage calculation:

1.33 x Vrms = Vdc bus

Approximate Values -

120 Vrms = 160Vdc

240 Vrms = 320Vdc

400 Vrms = 560Vdc

480 Vrms = 640Vdc

Bus voltage of the drive is established strictly by the incoming AC power. No internal settings necessary.

Table Footnotes:

- [1] Motor winding temperature rise, $\Delta T = 100^{\circ}$ C, at 40°C ambient.
- [2] All data referenced to sinusoidal commutation.
- [3] Add parking brake if applicable for total inertia.
- [4] Motor with standard heat sink.
- [5] May be limited at some values of Vbus.
- [6] Measured at 25°C.
- [7] Brake motor option reduces continuous torque ratings by following values (all values in Nm):

Frame Size 2			Frame Size 4 Frame Size 5 Fra		Frame Size 6	Frame Size 7	
C830M21 IC830M22 IC830M23		IC830M23	All Motors All Motors		IC830M62	IC830M63	All Motors
0.00	0.01	0.02	0.12	0.15	0.5	0.9	1

[8] Non-Resolver feedback options reduces continuous ratings following values (all values in Nm):

Frame Size 2	Frame Size 4 IC830M41 IC830M42		Frame Size 5	Frame Size 6		Frame Size 7		
All Motors			All Motors	IC830M62	IC830M63	IC830M72 IC830M73		
0.00	0.1	0.1	0.15	0.9	1.2	2.0	2.7	

[9] Motors with non-resolver feedback and brake option reduce continuous torque by following values (all values in Nm):

Frame Size 2			Frame Size 4		Frame Size 5	Frame Size 6		Frame Size 7	
IC830M21 IC830M22 IC830M23		IC830M41	IC830M42	All Motors	IC830M62 IC830M63		IC830M72 IC830M73		
0.00	0.02	0.05	0.22	0.36	0.39	1.6	2.4	3.9	5.1

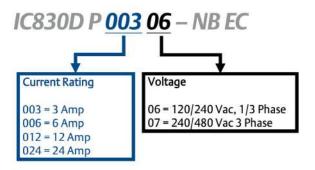
[10] For motors with optional shaft seal, reduce torque shown by following values and increase Tf by the same amount:

Frame Size 2	Frame Size 4	Frame Size 5	Frame Size 6	Frame Size 7	
All Motors	All Motors	All Motors	All Motors	All Motors	
0.047 Nm (0.41 lb-in)	0.071 Nm (0.63 lb-in)	0.013 Nm (0.1.2 lb-in)	0.25 Nm (2.21 lb-in)	0.25 Nm (2.21 lb-in)	

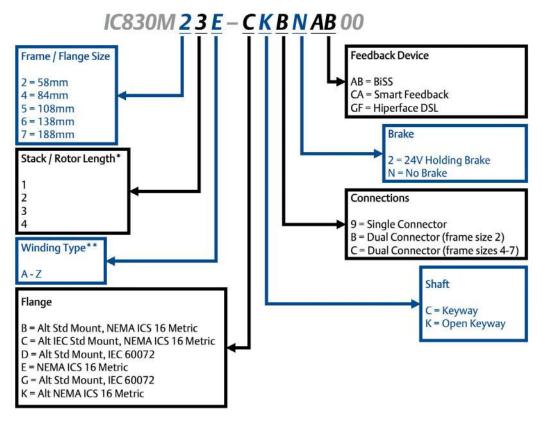
PACMotion Servo Motors – Motor Dimensions

Motor	Flange Width	Overall Length (no brake)	Heat Sink Size [Aluminum Plate]	Pilot	Mount- ing Hole Diameter	Bolt Circle Diameter	Shaft Diameter	Shaft Length	Key Width	Key Height
	(mm)	(mm)	(in)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
IC830M21C-KK	58	95.4	10"x10"x1/4"	50	5.8	70	9	25	3	10.2
IC830M22E-KK	58	114.4	10"x10"x1/4"	50	5.8	70	9	25	3	10.2
IC830M23E-CK	58	133.4	10"x10"x1/4"	50	5.8	70	14	30	5	16
IC830M24F-CK	58	152.4	10"x10"x1/4"	50	5.8	70	14	30	5	16
IC830M41E-DC	84	147.8	10"x10"x1/4"	80	7	100	10	32	3	11.2
IC830M42E-DC	84	147.8	10"x10"x1/4"	80	7	100	10	32	3	11.2
IC830M42E-GC	84	147.8	10"x10"x1/4"	80	7	100	14	30	5	16
IC830M42G-DC	84	147.8	10"x10"x1/4"	80	7	100	10	32	3	11.2
IC830M42G-GC	84	147.8	10"x10"x1/4"	80	7	100	14	30	5	16
IC830M42H-DC	84	147.8	10"x10"x1/4"	80	7	100	10	32	3	11.2
IC830M43G-GC	84	176.8	10"x10"x1/4"	80	7	100	14	30	5	16
IC830M43K-GC	84	176.8	10"x10"x1/4"	80	7	100	14	30	5	16
IC830M62H-BK	138	172.2	18"x18"x1/2"	110	9	145	24	55	8	27
IC830M62H-EK	138	172.2	18"x18"x1/2"	110	9	145	19	55	6	21.5
IC830M62K-BK	138	172.2	18"x18"x1/2"	110	9	145	24	55	8	27
IC830M62L-BK	138	172.2	18"x18"x1/2"	110	9	145	24	55	8	27
IC830M62L-EK	138	172.2	18"x18"x1/2"	110	9	145	19	55	6	21.5
IC830M62M-BK	138	172.2	18"x18"x1/2"	110	9	145	24	55	8	27
IC830M63L-BK	138	197.2	18"x18"x1/2"	110	9	145	24	55	8	27
IC830M63M-BK	138	197.2	18"x18"x1/2"	110	9	145	24	55	8	27
IC830M72L-KK	188	201.7	18"x18"x1/2"	114.3	13.5	200	35	79	10	38
IC830M72P-KK	188	201.7	18"x18"x1/2"	114.3	13.5	200	35	79	10	38
IC830M72Q-KK	188	201.7	18"x18"x1/2"	114.3	13.5	200	35	79	10	38
IC830M72R-KK	188	201.7	18"x18"x1/2"	114.3	13.5	200	35	79	10	38
IC830M73P-KK	188	235.7	18"x18"x1/2"	114.3	13.5	200	35	79	10	38
IC830M73Q-KK	188	235.7	18"x18"x1/2"	114.3	13.5	200	35	79	10	38
IC830M74Q-KK	188	269.7	18"x18"x1/2"	114.3	13.5	200	35	79	10	38

Understanding the Part Numbers PACMotion Servo Drives



PACMotion Servo Motors



^{*}value varies by frame size
**see manual for full definitions

Ordering Info

Catalog Number	Description				
Servo Motion Controller	Description				
	DACMarting Community of Controller and artitle with DV3 had when a control protection				
IC695PMM345	PACMotion Servo Motion Controller, compatible with RX3i backplane control systems Fiber terminal Block kit: includes the base and two high density extended shroud box style screw terminal blocks				
IC695FTB1B132	Fiber terminal Block kit: Includes the base and two high density extended shroud box style screw terminal blocks				
Servo Drives					
IC830DP00306-NBEC	PACMotion Servo Drive, 3A, 120/240 V				
IC830DP00606-NBEC	PACMotion Servo Drive, 6A, 120/240 V				
IC830DP01206-NBEC	PACMotion Servo Drive, 12A, 120/240 V				
IC830DP02406-NBEC	PACMotion Servo Drive, 24A, 120/240 V				
IC830DP00307-NBEC	PACMotion Servo Drive, 3A, 240/480 V				
IC830DP00607-NBEC	PACMotion Servo Drive, 6A, 240/480 V				
IC830DP01207-NBEC	PACMotion Servo Drive, 12A, 240/480 V				
IC830DP02407-NBEC	PACMotion Servo Drive, 24A, 240/480 V				
Servo Motors – Frame Size	e 2				
IC830M21C-KK92CA00	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Single Conn., Brake, SFD3, Single-Turn Abs				
IC830M21C-KK92GF00	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs				
IC830M21C-KK9NCA00	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Single Conn., SFD3, Single-Turn Abs				
IC830M21C-KK9NGF00	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Single Conn., HIPERFACE DSL, Multi -Turn Abs				
IC830M21C-KKB2AB00	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Dual Conn., Brake, BiSS, Multi-Turn Abs				
IC830M21C-KKBNAB00	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Dual Conn., BiSS, Multi -Turn Abs				
IC830M22E-KK92CA00	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Single Conn., Brake, SFD3, Single-Turn Abs				
IC830M22E-KK92GF00	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs				
IC830M22E-KK9NCA00	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Single Conn., SFD3, Single-Turn Abs				
IC830M22E-KK9NGF00	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs				
IC830M22E-KKB2AB00	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Dual Conn., Brake, BiSS, Multi-Turn Abs				
IC830M22E-KKBNAB00	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Dual Conn., BiSS, Multi-Turn Abs				
IC830M23E-CK92CA00	PACMotion Servo Motor, NEMA, 14x30mm Shaft, 5mm Open Key, Single Conn., Brake, SFD3, Single-Turn Abs				
IC830M23E-CK92GF00	PACMotion Servo Motor, NEMA, 14x30mm Shaft, 5mm Open Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs				
IC830M23E-CK9NCA00	PACMotion Servo Motor, NEMA, 14x30mm Shaft, 5mm Open Key, Single Conn., SFD3, Single-Turn Abs				
IC830M23E-CK9NGF00	PACMotion Servo Motor, NEMA, 14x30mm Shaft, 5mm Open Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs				
IC830M23E-CKB2AB00	PACMotion Servo Motor, NEMA, 14x30mm Shaft, 5mm Open Key, Dual Conn., Brake, BiSS, Multi -Turn Abs				
IC830M23E-CKBNAB00	PACMotion Servo Motor, NEMA, 14x30mm Shaft, 5mm Open Key, Dual Conn., BiSS, Multi-Turn Abs				
IC830M24F-CK92CA00	PACMotion Servo Motor, NEMA, 14x30mm Shaft, 5mm Open Key, Single Conn., Brake, SFD3, Single-Turn Abs				
IC830M24F-CK92GF00	PACMotion Servo Motor, NEMA, 14x30mm Shaft, 5mm Open Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs				
IC830M24F-CK9NCA00	PACMotion Servo Motor, NEMA, 14x30mm Shaft, 5mm Open Key, Single Conn., SFD3, Single-Turn Abs				
IC830M24F-CK9NGF00	PACMotion Servo Motor, NEMA, 14x30mm Shaft, 5mm Open Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs				
IC830M24F-CKB2AB00	PACMotion Servo Motor, NEMA, 14x30mm Shaft, 5mm Open Key, Dual Conn., Brake, BiSS, Multi-Turn Abs				
IC830M24F-CKBNAB00	PACMotion Servo Motor, NEMA, 14x30mm Shaft, 5mm Open Key, Dual Conn., BiSS, Multi-Turn Abs				

Servo Motors – Frame Size	e 4
IC830M41E-DC92CA00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M41E-DC92GF00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs
IC830M41E-DC9NCA00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., SFD3, Single-Turn Abs
IC830M41E-DC9NGF00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M41E-DCC2AB00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Dual Conn., Brake, BiSS, Multi-Turn Abs
IC830M41E-DCCNAB00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Dual Conn., BiSS, Multi-Turn Abs
IC830M42E-DC92CA00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M42E-DC92GF00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs
IC830M42E-DC9NCA00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., SFD3, Single-Turn Abs
IC830M42E-DC9NGF00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M42E-DCC2AB00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Dual Conn., Brake, BiSS, Multi-Turn Abs
IC830M42E-DCCNAB00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Dual Conn., BiSS, Multi-Turn Abs
IC830M42E-GC92CA00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M42E-GC92GF00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs
IC830M42E-GC9NCA00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., SFD3, Single-Turn Abs
IC830M42E-GC9NGF00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M42E-GCC2AB00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Dual Conn., Brake, BiSS, Multi-Turn Abs
IC830M42E-GCCNAB00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Dual Conn., BiSS, Multi-Turn Abs
IC830M42G-DC92CA00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M42G-DC92GF00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs
IC830M42G-DC9NCA00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., SFD3, Single-Turn Abs
IC830M42G-DC9NGF00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M42G-DCC2AB00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Dual Conn., Brake, BiSS, Multi-Turn Abs
IC830M42G-DCCNAB00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Dual Conn., BiSS, Multi-Turn Abs
IC830M42G-GC92CA00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M42G-GC92GF00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., Brake, HIPERFACE DSL, Multi -Turn Abs
IC830M42G-GC9NCA00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., SFD3, Single-Turn Abs
IC830M42G-GC9NGF00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M42G-GCC2AB00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Dual Conn., Brake, BiSS, Multi-Turn Abs
IC830M42G-GCCNAB00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Dual Conn., BiSS, Multi-Turn Abs
IC830M42H-DC92CA00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M42H-DC92GF00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs
IC830M42H-DC9NCA00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., SFD3, Single-Turn Abs
IC830M42H-DC9NGF00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M42H-DCC2AB00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Dual Conn., Brake, BiSS, Multi-Turn Abs
IC830M42H-DCCNAB00	PACMotion Servo Motor, 10x32mm Shaft, 3mm Closed Key, Dual Conn., BiSS, Multi-Turn Abs
IC830M43G-GC92CA00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M43G-GC92GF00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs
IC830M43G-GC9NCA00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., SFD3, Single-Turn Abs
IC830M43G-GC9NGF00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M43G-GCC2AB00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Dual Conn., Brake, BiSS, Multi-Turn Abs
IC830M43G-GCCNAB00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Dual Conn., BiSS, Multi-Turn Abs

IC830M43K-GC92CA00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M43K-GC92GF00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., Brake, HIPERFACE DSL, Multi -Turn Abs
IC830M43K-GC9NCA00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., SFD3, Single-Turn Abs
IC830M43K-GC9NGF00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M43K-GCC2AB00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Dual Conn., Brake, BiSS, Multi-Turn Abs
IC830M43K-GCCNAB00	PACMotion Servo Motor, 14x30mm Shaft, 5mm Closed Key, Dual Conn., BiSS, Multi-Turn Abs
Servo Motors – Frame S	
IC830M62H-BK92CA00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M62H-BK92GF00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs
IC830M62H-BK9NCA00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., SFD3, Single-Turn Abs
IC830M62H-BK9NGF00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M62H-BKC2AB00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Dual Conn., Brake, BiSS, Multi-Turn Abs
IC830M62H-BKCNAB00	
IC830M62H-EKCNAB00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Dual Conn., BiSS, Multi-Turn Abs
	PACMotion Servo Motor, NEMA, 19x55mm Shaft, 6mm Open Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M62H-EK92GF00	PACMotion Servo Motor, NEMA, 19x55mm Shaft, 6mm Open Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs
IC830M62H-EK9NCA00	PACMotion Servo Motor, NEMA, 19x55mm Shaft, 6mm Open Key, Single Conn., SFD3, Single-Turn Abs
IC830M62H-EK9NGF00	PACMotion Servo Motor, NEMA, 19x55mm Shaft, 6mm Open Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M62H-EKC2AB00	PACMotion Servo Motor, NEMA, 19x55mm Shaft, 6mm Open Key, Dual Conn., Brake, BiSS, Multi-Turn Abs
IC830M62H-EKCNAB00	PACMotion Servo Motor, NEMA, 19x55mm Shaft, 6mm Open Key, Dual Conn., BiSS, Multi-Turn Abs
IC830M62K-BK92CA00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M62K-BK92GF00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs
IC830M62K-BK9NCA00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., SFD3, Single-Turn Abs
IC830M62K-BK9NGF00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M62K-BKC2AB00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Dual Conn., Brake, BiSS, Multi-Turn Abs
IC830M62K-BKCNAB00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Dual Conn., BiSS, Multi-Turn Abs
IC830M62L-BK92CA00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M62L-BK92GF00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs
IC830M62L-BK9NCA00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., SFD3, Single-Turn Abs
IC830M62L-BK9NGF00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M62L-BKC2AB00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Dual Conn., Brake, BiSS, Multi -Turn Abs
IC830M62L-BKCNAB00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Dual Conn., BiSS, Multi-Turn Abs
IC830M62L-EK92CA00	PACMotion Servo Motor, NEMA, 19x55mm Shaft, 6mm Open Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M62L-EK92GF00	PACMotion Servo Motor, NEMA, 19x55mm Shaft, 6mm Open Key, Single Conn., Brake, HIPERFACE DSL, Multi -Turn Abs
IC830M62L-EK9NCA00	PACMotion Servo Motor, NEMA, 19x55mm Shaft, 6mm Open Key, Single Conn., SFD3, Single-Turn Abs
IC830M62L-EK9NGF00	PACMotion Servo Motor, NEMA, 19x55mm Shaft, 6mm Open Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M62L-EKC2AB00	PACMotion Servo Motor, NEMA, 19x55mm Shaft, 6mm Open Key, Dual Conn., Brake, BiSS, Multi-Turn Abs
IC830M62L-EKCNAB00	PACMotion Servo Motor, NEMA, 19x55mm Shaft, 6mm Open Key, Dual Conn., BiSS, Multi-Turn Abs
IC830M62M-BK92CA00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., Brake, SFD3, Single-Turn Abs
IC830M62M-BK92GF00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs
IC830M62M-BK9NCA00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., SFD3, Single-Turn Abs
IC830M62M-BK9NGF00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs
IC830M62M-BKC2AB00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Dual Conn., Brake, BiSS, Multi -Turn Abs
IC830M62M-BKCNAB00	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Dual Conn., BiSS, Multi-Turn Abs

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IC830M63L-BK92CA0						
IC830M63L-BK92GF0	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., Brake, HIPERFACE DSL, Multi-Turn Abs					
IC830M63L-BK9NCA0	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., SFD3, Single-Turn Abs					
IC830M63L-BK9NGF0	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., HIPERFACE DSL, Multi-Turn Abs					
IC830M63L-BKC2AB0	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Dual Conn., Brake, BiSS, Multi-Turn Abs					
IC830M63L-BKCNAB0	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Dual Conn., BiSS, Multi-Turn Abs					
IC830M63M-BK92CA	PACMotion Servo Motor, NEMA, 24x55mm Shaft, 8mm Open Key, Single Conn., Brake, SFD3, Single-Turn Abs					
IC830M63M-BK92GF0						
IC830M63M-BK9NCA						
IC830M63M-BK9NGF						
IC830M63M-BKC2AB						
IC830M63M-BKCNAB						
Servo Motors – Fram						
IC830M72L-KKC2AB0						
IC830M72L-KKCNAB0						
IC830M72P-KKC2AB0						
IC830M72Q-KKC2AB0	<u> </u>					
IC830M72Q-KKCVAB0						
IC830M72R-KKCNAB0						
IC830M73P-KKC2AB0						
IC830M73P-KKCNAB0	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Dual Conn., Brake, BiSS, Multi-Turn Abs PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Dual Conn., BiSS, Multi-Turn Abs					
IC830M73P-KKCNABC	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Dual Conn., Brake, BiSS, Multi-Turn Abs					
IC830M73Q-KKCNAB	PACMotion Servo Motor, NEMA, 9x25mm Shaft, 3mm Open Key, Dual Conn., BiSS, Multi-Turn Abs					
IC830M74Q-KKH2AB						
IC830M74Q-KKHNAB						
Cables	17 Carolion Servo Motor, Newist, Sazanini Share, Shiin Open Rey, Duar Collin, Dias, Multi Tulli Aus					
	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback with Brake, 1.5 mm^2, SpeedTec 1.0 Connector (6A, 240VAC), 1 meter					
h	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback with Brake, 1.5 mm ⁻² , SpeedTec 1.0 Connector (6A, 240VAC), 3 meter					
-	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback with Brake, 1.5 mm ² , SpeedTec 1.0 Connector (6A, 240VAC), 6 meter					
	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback with Brake, 1.5 mm ⁻² , SpeedTec 1.0 Connector (6A, 240VAC), 9 meter					
	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback with Brake, 1.5 mm ² , SpeedTec 1.0 Connector (6A, 240VAC), 12 meter Hybrid Servo Motor Cable, Power & SFD3 Only Feedback with Brake, 1.5 mm ² , SpeedTec 1.0 Connector (6A, 240VAC), 25 meter					
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-	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback with Brake, 1.5 mm ² , SpeedTec 1.0 Connector (6A, 480VAC), 1 meter Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback with Brake, 1.5 mm ² , SpeedTec 1.0 Connector (6A, 480VAC), 3 meter					
,						
_	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback with Brake, 1.5 mm ² , SpeedTec 1.0 Connector (6A, 480VAC), 6 meter					
-	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback with Brake, 1.5 mm ² , SpeedTec 1.0 Connector (6A, 480VAC), 9 meter					
	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback with Brake, 1.5 mm ² , SpeedTec 1.0 Connector (6A, 480VAC), 12 meter					
-	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback with Brake, 1.5 mm ² , SpeedTec 1.0 Connector (6A, 480VAC), 25 meter					
-	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback w/ Brake, 2.5 mm^2, SpeedTec 1.0 Conn. (20A, 240/480VAC), 1m					
_	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback w/ Brake, 2.5 mm^2, SpeedTec 1.0 Conn. (20A, 240/480VAC), 3m					
-	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback w/ Brake, 2.5 mm^2, SpeedTec 1.0 Conn. (20A, 240/480VAC), 6m					
	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback w/ Brake, 2.5 mm^2, SpeedTec 1.0 Conne. (20A, 240/480VAC), 9m					
	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback w/ Brake, 2.5 mm^2, SpeedTec 1.0 Conn. (20A, 240/480VAC), 12m					
CCJ2A2-025-025-00	Hybrid Servo Motor Cable, Power & SFD3/H-DSL Feedback w/ Brake, 2.5 mm^2, SpeedTec 1.0 Conn. (20A, 240/480VAC), 25m					

CP-507CCAN-01-0	Servo Motor Power Cable, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 1 meter
CP-507CCAN-03-0	Servo Motor Power Cable, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 3 meter
CP-507CCAN-06-0	Servo Motor Power Cable, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 6 meter
CP-507CCAN-09-0	Servo Motor Power Cable, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 9 meter
CP-507CCAN-12-0	Servo Motor Power Cable, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 12 meter
CP-507CCAN-15-0	Servo Motor Power Cable, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC),15 meter
CP-507CCAN-20-0	Servo Motor Power Cable, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 20 meter
CP-507CCAN-25-0	Servo Motor Power Cable, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 25 meter
CP-507CDAN-01-0	Servo Motor Power Cable w/Brake, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 1 meter
CP-507CDAN-03-0	Servo Motor Power Cable w/Brake, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 3 meter
CP-507CDAN-06-0	Servo Motor Power Cable w/Brake, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 6 meter
CP-507CDAN-09-0	Servo Motor Power Cable w/Brake, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 9 meter
CP-507CDAN-12-0	Servo Motor Power Cable w/Brake, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 12 meter
CP-507CDAN-15-0	Servo Motor Power Cable w/Brake, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 15 meter
CP-507CDAN-20-0	Servo Motor Power Cable w/Brake, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 20 meter
CP-507CDAN-25-0	Servo Motor Power Cable w/Brake, BiSS, High Flex w/ Intercontec Style Connector, (12A, 240VAC), 25 meter
CF-SB7374N-01-0	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 1 meter
CF-SB7374N-03-0	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 3 meter
CF-SB7374N-06-0	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 6 meter
CF-SB7374N-09-0	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 9 meter
CF-SB7374N-12-0	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 12 meter
CF-SB7374N-15-0	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 15 meter
CF-SB7374N-20-0	Sorve Motor Foodback Cable w/ Intercenter Style Connector Disc 9 EnDat 30 mater
CI -2012/4IN-2U-U	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 20 meter
CF-SB7374N-25-0	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 20 meter Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter
CF-SB7374N-25-0	
CF-SB7374N-25-0 Accessories	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter
CF-SB7374N-25-0 Accessories IC830M7-FAN	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT CON-AKDX3A-SL	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT CON-AKDX3A-SL CON-AKDX3B-SL	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT CON-AKDX3A-SL CON-AKDX3B-SL CON-AKDX3C-SL	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X4, mains
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT CON-AKDX3A-SL CON-AKDX3G-SL CON-AKDX3C-SL-Y	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, mains
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT CON-AKDX3A-SL CON-AKDX3B-SL CON-AKDX3C-SL CON-AKDX3C-SL-Y AKD-CONKIT-MV3-6-SL	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, DC-Bus, Regen-R Mating Connector X4v.Y Screw Lock Mating Connectors for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X7 and X8) Screw Lock Mating Connector for IC830D-x01206 (includes X1, X2, X3, X7 and X8)
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT CON-AKDX3A-SL CON-AKDX3G-SL CON-AKDX3G-SL-Y AKD-CONKIT-MV12-SL	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, DC-Bus, Regen-R Mating Connector X4v.Y Screw Lock Mating Connectors for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X7 and X8) Screw Lock Mating Connector for IC830D-x01206 (includes X1, X2, X3, X4, X7 and X8)
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT CON-AKDX3A-SL CON-AKDX3B-SL CON-AKDX3C-SL-Y AKD-CONKIT-MV3-6-SL AKD-CONKIT-MV12-SL AKD-CONKIT-MV24-SL AKD-CONKIT-HV3-12-SL	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, DC-Bus, Regen-R Mating Connector X4v.Y Screw Lock Mating Connectors for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X7 and X8) Screw Lock Mating Connector for IC830D-x02406 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00307, x00607, and x01207 (includes X1, X2, X3, X4, X7 and X8)
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT CON-AKDX3A-SL CON-AKDX3G-SL CON-AKDX3C-SL-Y AKD-CONKIT-MV3-6-SL AKD-CONKIT-MV12-SL AKD-CONKIT-HV3-12-SL AKD-CONKIT-HV3-12-SL	Servo Motor Feedback Cable w/ Intercontec Style Connector, BiSS & EnDat, 25 meter Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, DC-Bus, Regen-R Mating Connector X4v.Y Screw Lock Mating Connectors for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X7 and X8) Screw Lock Mating Connector for IC830D-x02406 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00307, x00607, and x01207 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X4, X7 and X8)
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT CON-AKDX3A-SL CON-AKDX3B-SL CON-AKDX3C-SL-Y AKD-CONKIT-MV3-6-SL AKD-CONKIT-MV12-SL AKD-CONKIT-HV24-SL AKD-CONKIT-HV3-12-SL AKD-CONKIT-HV3-12-SL CON-AKDX1-SL	Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, motor, with shield plate Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, DC-Bus, Regen-R Mating Connector X4v.Y Screw Lock Mating Connectors for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X7 and X8) Screw Lock Mating Connector for IC830D-x01206 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00307, x00607, and x01207 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X4, X7 and X8) Mating connector X1, 24Vdc and STO
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT CON-AKDX3A-SL CON-AKDX3G-SL CON-AKDX3C-SL-Y AKD-CONKIT-MV3-6-SL AKD-CONKIT-MV12-SL AKD-CONKIT-HV3-12-SL AKD-CONKIT-HV3-12-SL CON-AKDX1-SL CON-AKDX1-SL CON-AKDX1-SL CON-AKDX1-SL	Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, DC-Bus, Regen-R Mating Connector X4v.Y Screw Lock Mating Connectors for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X7 and X8) Screw Lock Mating Connector for IC830D-x01206 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00307, x00607, and x01207 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00307, x00607, and x01207 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X4, X7 and X8) Mating connector X1, 24Vdc and STO Screw Lock X2 connector for IC830D-x00306 and IC830D-x00606
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT CON-AKDX3A-SL CON-AKDX3G-SL CON-AKDX3C-SL-Y AKD-CONKIT-MV3-6-SL AKD-CONKIT-MV24-SL AKD-CONKIT-HV3-12-SL AKD-CONKIT-HV3-12-SL CON-AKDX1-SL CON-AKDX1-SL CON-AKDX1-SL CON-AKDX2A-SL	Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate Mating Connector (Drive) X3, mains, DG-Bus, Regen Resistor Mating Connector (Drive) X3, mains, DG-Bus, Regen Resistor Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, DG-Bus, Regen-R Mating Connector X4v.Y Screw Lock Mating Connectors for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X7 and X8) Screw Lock Mating Connector for IC830D-x01206 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00307, x00607, and x01207 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X4, X7 and X8) Screw Lock X2 connector for IC830D-x00306 and IC830D-x00606 Screw Lock X2 connector for IC830D-x01206, IC830D-x02406 & IC830D-xxxx07
CF-SB7374N-25-0 Accessories IC830M7-FAN 153-230000-01 153-254001-00 153-255000-02 AKD-X2+SK14-KIT AKD-X2+SHIELD-KIT CON-AKDX3A-SL CON-AKDX3G-SL CON-AKDX3C-SL-Y AKD-CONKIT-MV3-6-SL AKD-CONKIT-MV12-SL AKD-CONKIT-HV3-12-SL AKD-CONKIT-HV3-12-SL CON-AKDX1-SL CON-AKDX1-SL CON-AKDX1-SL CON-AKDX1-SL	Cooling Fan Kit, IC830M7 Ground Plate, Medium Voltage Shield Bracket, 12A Shield Bracket, 24A Mating Connector (Drive) X2, motor, with shield clamp SK14 Mating Connector (Drive) X2, motor, with shield plate Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X3, mains, DC-Bus, Regen Resistor Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, mains Mating Connector (Drive) X4, DC-Bus, Regen-R Mating Connector X4v.Y Screw Lock Mating Connectors for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X7 and X8) Screw Lock Mating Connector for IC830D-x01206 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00307, x00607, and x01207 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00307, x00607, and x01207 (includes X1, X2, X3, X4, X7 and X8) Screw Lock Mating Connector for IC830D-x00306 and IC830D-x00606 (includes X1, X2, X3, X4, X7 and X8) Mating connector X1, 24Vdc and STO Screw Lock X2 connector for IC830D-x00306 and IC830D-x00606

CON MENSOR CO.	N 1
CON-AKDX3C-SL-J	Mating connector X3 connector for IC830D-x02406 & IC830D-xxxx07
CON-AKDX4-SL	Mating connector X4 connector for IC830D-x02406 & IC830D-xxxx07
CON-AKDX7-SL	Mating connector X7, Digital I/O
CON-AKDX8-SL	Mating connector X8, Digital I/O
CON-AKDX21-SL	Mating connector X21, I/O Option
CON-AKDX22-SL	Mating connector X22, I/O Option
CON-AKDX23-SL	Mating connector X23, I/O Option
CON-AKDX24-SL	Mating connector X24, I/O Option
AKD-X9-X10-KIT	Connector kit with X10 male 15 pin high density, X9 female 9 pin, 2 housings, screws
DE-201565	Mains filter 1NF-10 (230 VAC, 10A)
DE-201566	Mains filter 1NF-12 (230 VAC, 12A)
DE-201865	Mains filter 1NF-20B (125V/230V, 20A)
DE-201568	Mains filter 1NF-25 (230 VAC, 25A)
DE-201569	Mains filter 3NF-07 (480 VAC, 07A)
DE-201570	Mains filter 3NF-16 (480 VAC, 16A)
DE-201571	Mains filter 3NF-30 (480 VAC, 30A)
KCM-S200-0000	Energy Saving Module (Capacitor), 1.6 kWs
KCM-P200-0000	Power Module (Capacitor), 2 kWs
KCM-E200-0000	Expansion Module (Capacitor) 2 kWs
KCM-E400-0000	Expansion Module (Capacitor) 4 kWs
BAR-500-15	Regen resistor BAR(U) 500-15
BAR-1000-15	Regen resistor BAR(U) 1000-15
BAS-2000-15	Regen resistor BAS(U) 2000-15
BAS-3000-15	Regen resistor BAS(U) 3000-15
BAS-6000-15	Regen resistor BAS(U) 6000-15
BAR-600-23	Regen resistor BAR(U) 600-23
BAR-1000-23	Regen resistor BAR(U) 1000-23
BAS-2000-23	Regen resistor BAS(U) 2000-23
BAS-3000-23	Regen resistor BAS(U) 3000-23
BAS-4000-23	Regen resistor BAS(U) 4000-23
BAFP-100-33	Regen resistor BAFP(U) 100-33
BAFP-200-33	Regen resistor BAFP(U) 200-33
BAR-250-33	Regen resistor BAR(U) 250-33
BAR-500-33	Regen resistor BAR(U) 500-33
BAR-1500-33	Regen resistor BAR(U) 1500-33
BAS-3000-33	Regen resistor BAS(U) 3000-33
3YLN-06	Motor Choke, 6A
3YLN-14	Motor Choke, 14A
3YLN-24	Motor Choke, 24A

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