

List of Safety Standard Approved Products

(Last updated December 2008)

World K Series, Induction Motors, Lead Wire Type

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page	
Pinion Shaft	Round Shaft	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	Applicable Standards	Certificate No.	Certification Body		
0IK1GN-AW3	0IK1A-AW3	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199	UL	-	-	-	EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2005010401150786	CQC	A-26	
0IK3GN-BW3	0IK3A-BW3										2003010401091525			A-29
2IK6GN-AW2	2IK6A-AW2										2003010401091527			
2IK6GN-CW2	2IK6A-CW2										2003010401091522			A-33
2IK6GN-SW2	2IK6A-SW2													
3IK15GN-AW2	3IK15A-AW2										E64197			UL
3IK15GN-CW2	3IK15A-CW2		2003010401091522	A-42										
4IK25GN-AW2	4IK25A-AW2		2003010401091520											
4IK25GN-CW2	4IK25A-CW2		2003010401091522	A-48										
4IK25GN-SW2	4IK25A-SW2													
5IK40GN-AW2	5IK40A-AW2		2003010401091520	A-54										
5IK40GN-CW2	5IK40A-CW2													
5IK40GN-SW2	5IK40A-SW2		2003010401091522	A-48										
5IK60GE-AW2	5IK60A-AW2													
5IK60GE-CW2	5IK60A-CW2		2003010401091520	A-54										
5IK60GE-SW2	5IK60A-SW2													
5IK90GE-AW2	5IK90A-AW2	2003010401091522	A-54											
5IK90GE-CW2	5IK90A-CW2													
5IK90GE-SW2	5IK90A-SW2	2003010401091520	A-54											
5IK90GE-SW2	5IK90A-SW2													

World K Series, Induction Motors, Terminal Box Type

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page	
Pinion Shaft	Round Shaft	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	Applicable Standards	Certificate No.	Certification Body		
4IK25GN-AW2T	4IK25A-AW2T	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64197	UL	-	-	-	EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2003010401091522	CQC	A-36	
4IK25GN-CW2T	4IK25A-CW2T										2003010401091520			
4IK25GN-SW2T	4IK25A-SW2T										2003010401091522			A-42
5IK40GN-AW2T	5IK40A-AW2T													
5IK40GN-CW2T	5IK40A-CW2T										2003010401091520			A-48
5IK40GN-SW2T	5IK40A-SW2T													
5IK60GE-AW2T	5IK60A-AW2T										2003010401091522			A-48
5IK60GE-CW2T	5IK60A-CW2T													
5IK60GE-SW2T	5IK60A-SW2T		2003010401091520	A-54										
5IK90GE-AW2T	5IK90A-AW2T													
5IK90GE-CW2T	5IK90A-CW2T		2003010401091522	A-54										
5IK90GE-SW2T	5IK90A-SW2T													
5IK90GE-SW2T	5IK90A-SW2T		2003010401091520	A-54										
5IK90GE-SW2T	5IK90A-SW2T													

World K Series, Induction Motors, Conduit Box Type

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4IK25GN-FCH	4IK25AA-FCH	UL1004 UL2111 CSA C22.2 No.77 CSA C22.2 No.100	E64197	UL	-	-	-	EN60034-1 EN60034-5 EN60664-1	-	A-36	
4IK25GN-ECH	4IK25AA-ECH										
4IK25GN-SH	4IK25AA-SH										
5IK40GN-FCH	5IK40AA-FCH										A-42
5IK40GN-ECH	5IK40AA-ECH										
5IK40GN-SH	5IK40AA-SH										A-48
5IK60GE-FCH	5IK60A-FCH										
5IK60GE-ECH	5IK60A-ECH										A-48
5IK60GE-SH	5IK60A-SH										
5IK90GE-FCH	5IK90A-FCH										A-54
5IK90GE-ECH	5IK90A-ECH										
5IK90GE-SH	5IK90A-SH										A-54
5IK90GE-SH	5IK90A-SH										

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World K Series, Induction Motors 2-Pole, High-Speed Type

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Pinion Shaft	Round Shaft	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	Applicable Standards	Certificate No.	Certification Body	
4IK40A-BW2		UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64197	UL		-		EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2005010401150785	CQC	A-72
4IK40A-DW3													
4IK60A-BW2													
4IK60A-DW3													
5IK60A-BW2													
5IK60A-DW3													
5IK60A-TW2													
5IK90A-BW2													
5IK90A-DW3													
5IK90A-TW2													
5IK150A-BW2													
5IK150A-DW3													
5IK150A-TW2													
5IK150A-TW2T													

World K Series, Reversible Motors, Lead Wire Type

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page
Pinion Shaft	Round Shaft	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	Applicable Standards	Certificate No.	Certification Body	
0RK1GN-AW3	0RK1A-AW3	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64197	UL		-		EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2005010401150787	CQC	A-83
2RK6GN-AW2	2RK6A-AW2										2003010401091525		A-86
2RK6GN-CW2	2RK6A-CW2										2003010401091522		A-89
3RK15GN-AW2	3RK15A-AW2												A-92
3RK15GN-CW2	3RK15A-CW2												A-96
4RK25GN-AW2	4RK25A-AW2												A-100
4RK25GN-CW2	4RK25A-CW2												A-104
5RK40GN-AW2	5RK40A-AW2												
5RK40GN-CW2	5RK40A-CW2												
5RK60GE-AW2	5RK60A-AW2												
5RK60GE-CW2	5RK60A-CW2												
5RK90GE-AW2	5RK90A-AW2												
5RK90GE-CW3	5RK90A-CW3												

World K Series, Reversible Motors, Terminal Box Type

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page
Pinion Shaft	Round Shaft	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	Applicable Standards	Certificate No.	Certification Body	
4RK25GN-AW2T	4RK25A-AW2T	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64197	UL		-		EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2003010401091522	CQC	A-92
4RK25GN-CW2T	4RK25A-CW2T												A-96
5RK40GN-AW2T	5RK40A-AW2T												A-100
5RK40GN-CW2T	5RK40A-CW2T												
5RK60GE-AW2T	5RK60A-AW2T												
5RK60GE-CW2T	5RK60A-CW2T												
5RK90GE-AW2T	5RK90A-AW2T												
5RK90GE-CW3T	5RK90A-CW3T												

World K Series, Electromagnetic Brake Motors

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page									
Pinion Shaft	Round Shaft	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	Applicable Standards	Certificate No.	Certification Body										
2RK6GN-AW2M	2RK6A-AW2M	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199	UL	-	-	-	EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2003010401091525	CQC	A-116									
2RK6GN-CW2M	2RK6A-CW2M										2003010401091527											
2IK6GN-SW2M	2IK6A-SW2M		E64197								-		-	-	-	-	-	-	-	2003010401091522	-	A-120
3RK15GN-AW2M	3RK15A-AW2M																					
3RK15GN-CW2M	3RK15A-CW2M																					
4RK25GN-AW2M	4RK25A-AW2M																					
4RK25GN-CW2M	4RK25A-CW2M																					
4IK25GN-SW2M	4IK25A-SW2M																					
5RK40GN-AW2M	5RK40A-AW2M																					
5RK40GN-CW2M	5RK40A-CW2M																					
5IK40GN-SW2M	5IK40A-SW2M																					
5RK60GE-AW2M	5RK60A-AW2M																					
5RK60GE-CW2M	5RK60A-CW2M																					
5IK60GE-SW2M	5IK60A-SW2M																					
5RK90GE-AW2M	5RK90A-AW2M																					
5RK90GE-CW2M	5RK90A-CW2M																					
5IK90GE-SW2M	5IK90A-SW2M																					

BH Series, Induction Motors

Model	Motor Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
		Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
BHI62F-□□	BHI62F-G2	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64197	UL	-	-	-	EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 IEC 60034-11	-	A-60
BHI62FT-□□	BHI62FT-G2									
BHI62F-A	-									
BHI62FT-A	-									
BHI62E-□□	BHI62E-G2									
BHI62ET-□□	BHI62ET-G2									
BHI62E-A	-									
BHI62ET-A	-									
BHI62ST-□□	BHI62ST-G2									
BHI62ST-A	-									

- Enter the gear ratio in the box (□) within the model name.
- Enter **RH** or **RA** in the box (■) within the model name. (Right-angle shaft type only)
- When the motor is approved under various safety standards, the model name in the motor is the approved model name.

BH Series, Electromagnetic Brake Motors

Model	Motor Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
		Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
BHI62FMT-□□	BHI62FMT-G2	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64197	UL	-	-	-	EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 IEC 60034-11	-	A-143
BHI62FMT-A	-									
BHI62EMT-□□	BHI62EMT-G2									
BHI62EMT-A	-									
BHI62SMT-□□	BHI62SMT-G2									
BHI62SMT-A	-									

- Enter the gear ratio in the box (□) within the model name.
- Enter **RH** or **RA** in the box (■) within the model name. (Right-angle shaft type only)
- When the motor is approved under various safety standards, the model name in the motor is the approved model name.

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■ V Series, Induction Motors

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Lead Wire	Terminal Box	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	Applicable Standards	Certificate No.	Certification Body	
VHI206A2-GV	-	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199	UL		-		EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2003010401091525	CQC	A-160
VHI206C2-GV	-												
VHI315A2-GV	-												
VHI315C2-GV	-												
VHI425A2-GV	VHI425A2T-GV												
VHI425C2-GV	VHI425C2T-GV												
VHI425S2-GV	VHI425S2T-GV												
VHI540A2-GVH	VHI540A2T-GVH												
VHI540C2-GVH	VHI540C2T-GVH												
VHI540S2-GVH	VHI540S2T-GVH												
VHI560A2-GVH	VHI560A2T-GVH												
VHI560C2-GVH	VHI560C2T-GVH												
VHI560S2-GVH	VHI560S2T-GVH												
VHI590A2-GVR	VHI590A2T-GVR												
VHI590C2-GVR	VHI590C2T-GVR												
VHI590S2-GVR	VHI590S2T-GVR												

■ V Series, Reversible Motors

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page
Lead Wire	Terminal Box	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	Applicable Standards	Certificate No.	Certification Body	
VHR206A2-GV	-	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199	UL		-		EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2003010401091525	CQC	A-161
VHR206C2-GV	-												
VHR315A2-GV	-												
VHR315C2-GV	-												
VHR425A2-GV	VHR425A2T-GV												
VHR425C2-GV	VHR425C2T-GV												
VHR540A2-GVH	VHR540A2T-GVH												
VHR540C2-GVH	VHR540C2T-GVH												
VHR560A2-GVH	VHR560A2T-GVH												
VHR560C2-GVH	VHR560C2T-GVH												
VHR590A2-GVR	VHR590A2T-GVR												
VHR590C3-GVR	VHR590C3T-GVR												

■ V Series, Electromagnetic Brake Motors

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page
Lead Wire		Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	Applicable Standards	Certificate No.	Certification Body	
VHR206A2M-GV		UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199	UL		-		EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2003010401091525	CQC	A-173
VHR206C2M-GV													
VHR315A2M-GV													
VHR315C2M-GV													
VHR425A2M-GV													
VHR425C2M-GV													
VHI425S2M-GV													
VHR540A2M-GVH													
VHR540C2M-GVH													
VHI540S2M-GVH													
VHR560A2M-GVH													
VHR560C2M-GVH													
VHI560S2M-GVH													
VHR590A2M-GVR													
VHR590C2M-GVR													
VHI590S2M-GVR													

Clutch and Brake Motors, C-B Motors

Model	Motor Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
		Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
CB1540-701WU	5IK40GN-AW-CB1	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64197	UL	EN 60950-1	6751	VDE	EN60034-1 EN60034-5 EN60664-1 EN60950-1 IEC60034-11	-	A-186
CB1560-801WU	5IK60GU-AW-CB1									
CB1590-801WU	5IK90GU-AW-CB1									

● When the motor is approved under various safety standards, the model name in the motor is the approved model name.

● The clutch and brake unit is not UL recognized.

Synchronous Motors

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		Page
Pinion Shaft	Round Shaft	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
2SK4GN-AUL	2SK4A-AULA	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199 E64197 LR47296-19	UL CSA	EN 60950-1	5876 5877	VDE	EN 60950-1	-	A-197
3SK10GN-AUL	3SK10A-AULA									
4SK15GN-AUL	4SK15A-AULA									
5SK25GN-AUL	5SK25A-AULA									

Low-Speed Synchronous Motors, SMK Series

Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
SMK237A-A	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199	UL		-		EN 60950-1 EN 60034-5	-	A-207
SMK216A-GN									
SMK5100A-AA									
SMK5160A-AA									
SMK550A-GN									

Watertight, Dust-Resistant Motors, FPW Series

Model	UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page	
	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive	Applicable Standards	Certificate No.	Certification Body		
							Applicable Standards	Applicable Standards					
FPW425A2-□	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64197	UL		-		EN 60034-1 EN 60034-5 EN 60664-1	-	GB12350	2006010401173413	CQC	A-219	
FPW425C2-□													2006010401173412
FPW425S2-□													2006010401173412
FPW540A2-□													2006010401173413
FPW540C2-□													2006010401173412
FPW540S2-□													2006010401173413
FPW560A2-□													2006010401173413
FPW560C2-□													2006010401173412
FPW560S2-□													2006010401173413
FPW690A2-□													2006010401173413
FPW690C2-□													2006010401173412
FPW690S2-□	2006010401173412												

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

Torque Motors, World K Series

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Pinion Shaft	Round Shaft	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	Applicable Standards	Certificate No.	Certification Body	
2TK3GN-AW2	2TK3A-AW2	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64197	UL		-		EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2005010401150784	CQC	A-231
2TK3GN-CW2	2TK3A-CW2												
3TK6GN-AW2	3TK6A-AW2												
3TK6GN-CW2	3TK6A-CW2												
4TK10GN-AW2	4TK10A-AW2												
4TK10GN-CW2	4TK10A-CW2												
5TK20GN-AW2	5TK20A-AW2												
5TK20GN-CW2	5TK20A-CW2												

■ Brake Pack

Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
SB50W	UL 508 CSA C22.2 No.14	E91291	UL		-		EN 60950-1 EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	A-281

■ Brushless Motors, BX Series, Standard

Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
			Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
BX230A -□■	BXM230-GFS	BXD30A-A	Motor UL 60950-1 CSA C22.2 No.60950-1	Motor E208200	UL	-	Motor EN 60034-1 EN 60034-5 EN 60664-1	Emission EN 61000-6-4 Immunity EN 61000-6-2	B-24		
BX230C -□■	BXM230-GFS	BXD30A-C									
BX230A-A	BXM230-A2	BXD30A-A									
BX230C-A	BXM230-A2	BXD30A-C									
BX460A -□■	BXM460-GFS	BXD60A-A									
BX460C -□■	BXM460-GFS	BXD60A-C									
BX460A-A	BXM460-A2	BXD60A-A									
BX460C-A	BXM460-A2	BXD60A-C									
BX5120A -□■	BXM5120-GFS	BXD120A-A									
BX5120C -□■	BXM5120-GFS	BXD120A-C									
BX5120A-A	BXM5120-A2	BXD120A-A									
BX5120C-A	BXM5120-A2	BXD120A-C									
BX6200A -□S	BXM6200-GFS	BXD200A-A	Motor UL 1004 CSA C22.2 No.100	Motor E62327	UL	-	Driver EN 50178	Immunity EN 61000-6-2	B-24		
BX6200C -□S	BXM6200-GFS	BXD200A-C									
BX6200A-A	BXM6200-A	BXD200A-A									
BX6200C-A	BXM6200-A	BXD200A-C									
BX6400S -□S	BXM6400-GFS	BXD400A-S									
BX6400S-A	BXM6400-A	BXD400A-S									
			Driver UL 508C* CSA C22.2 No.14	Driver E171462							

*Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C (122°F).

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

Enter **S** (parallel shaft type) or **FR** (hollow shaft flat gearhead) in the box (■) within the model name.

● When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

■ Brushless Motors, BX Series, With Electromagnetic Brake

Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
			Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
BX230AM -□■	BXM230M-GFS	BXD30A-A	Motor UL 60950-1 CSA C22.2 No.60950-1	Motor E208200	UL	-	Motor EN 60034-1 EN 60034-5 EN 60664-1	Emission EN 61000-6-4 Immunity EN 61000-6-2	B-25		
BX230CM -□■	BXM230M-GFS	BXD30A-C									
BX230AM-A	BXM230M-A2	BXD30A-A									
BX230CM-A	BXM230M-A2	BXD30A-C									
BX460AM -□■	BXM460M-GFS	BXD60A-A									
BX460CM -□■	BXM460M-GFS	BXD60A-C									
BX460AM-A	BXM460M-A2	BXD60A-A									
BX460CM-A	BXM460M-A2	BXD60A-C									
BX5120AM -□■	BXM5120M-GFS	BXD120A-A									
BX5120CM -□■	BXM5120M-GFS	BXD120A-C									
BX5120AM-A	BXM5120M-A2	BXD120A-A									
BX5120CM-A	BXM5120M-A2	BXD120A-C									
BX6200AM -□S	BXM6200M-GFS	BXD200A-A	Motor UL 1004 CSA C22.2 No.100	Motor E62327	UL	-	Driver EN 50178	Immunity EN 61000-6-2	B-25		
BX6200CM -□S	BXM6200M-GFS	BXD200A-C									
BX6200AM-A	BXM6200M-A	BXD200A-A									
BX6200CM-A	BXM6200M-A	BXD200A-C									
BX6400SM -□S	BXM6400M-GFS	BXD400A-S									
BX6400SM-A	BXM6400M-A	BXD400A-S									
			Driver UL 508C* CSA C22.2 No.14	Driver E171462							

*Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C (122°F).

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

Enter **S** (parallel shaft type) or **FR** (hollow shaft flat gearhead) in the box (■) within the model name.

● When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

Brushless Motors, BLF Series

Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
			Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
BLF230A -□■	BLFM230-GFS	BLFD30A2	Motor UL 1004 CSA C22.2 No. 100 Driver UL 508C* CSA C22.2 No. 14	Motor E62327	UL	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 Driver EN 50178 EN 60950-1	Emission EN 61000-6-4 Immunity EN 61000-6-2	B-66		
BLF230C -□■	BLFM230-GFS	BLFD30C2									
BLF230S -□■	BLFM230-GFS	BLFD30S2									
BLF230A-A	BLFM230-A	BLFD30A2									
BLF230C-A	BLFM230-A	BLFD30C2									
BLF230S-A	BLFM230-A	BLFD30S2									
BLF460A -□■	BLFM460-GFS	BLFD60A2									
BLF460C -□■	BLFM460-GFS	BLFD60C2									
BLF460S -□■	BLFM460-GFS	BLFD60S2									
BLF460A-A	BLFM460-A	BLFD60A2									
BLF460C-A	BLFM460-A	BLFD60C2									
BLF460S-A	BLFM460-A	BLFD60S2									
BLF5120A -□■	BLFM5120-GFS	BLFD120A2									
BLF5120C -□■	BLFM5120-GFS	BLFD120C2									
BLF5120S -□■	BLFM5120-GFS	BLFD120S2									
BLF5120A-A	BLFM5120-A	BLFD120A2									
BLF5120C-A	BLFM5120-A	BLFD120C2									
BLF5120S-A	BLFM5120-A	BLFD120S2									
BLF6200A -□	BLFM6200-GFS	BLFD200A2									
BLF6200C -□	BLFM6200-GFS	BLFD200C2									
BLF6200S -□	BLFM6200-GFS	BLFD200S2									
BLF6200A-A	BLFM6200-A	BLFD200A2									
BLF6200C-A	BLFM6200-A	BLFD200C2									
BLF6200S-A	BLFM6200-A	BLFD200S2									
BLF6400S -□	BLFM6400-GFS	BLFD400S2									
BLF6400S-A	BLFM6400-A	BLFD400S2									

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C (122°F).

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

Enter **FR** in the box (■) within the model name (Hollow shaft flat gearhead only).

● When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

Brushless Motors, BLU Series

Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
			Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
BLU220A -□■	BLUM220-GFS	BLUD20A	Motor UL 60950-1 CSA C22.2 No.60950-1 Driver UL 508C* CSA C22.2 No. 14	Motor E208200	UL	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 Driver EN 50178 EN 60950-1	Emission EN 61000-6-4 Immunity EN 61000-6-2	B-90		
BLU220C -□■	BLUM220-GFS	BLUD20C									
BLU220S -□■	BLUM220-GFS	BLUD20S									
BLU220A-A	BLUM220-A	BLUD20A									
BLU220C-A	BLUM220-A	BLUD20C									
BLU220S-A	BLUM220-A	BLUD20S									
BLU440A -□■	BLUM440-GFS	BLUD40A									
BLU440C -□■	BLUM440-GFS	BLUD40C									
BLU440S -□■	BLUM440-GFS	BLUD40S									
BLU440A-A	BLUM440-A	BLUD40A									
BLU440C-A	BLUM440-A	BLUD40C									
BLU440S-A	BLUM440-A	BLUD40S									
BLU590A -□■	BLUM590-GFS	BLUD90A									
BLU590C -□■	BLUM590-GFS	BLUD90C									
BLU590S -□■	BLUM590-GFS	BLUD90S									
BLU590A-A	BLUM590-A	BLUD90A									
BLU590C-A	BLUM590-A	BLUD90C									
BLU590S-A	BLUM590-A	BLUD90S									

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C (122°F).

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

Enter **FR** in the box (■) within the model name (Hollow shaft flat gearhead only).

● When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

■ Brushless Motors, FBLII Series

Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page						
			Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards							
FBL575AW -□	FBLM575W-GFB	FBLD75AW	Motor UL 1004 CSA C22.2 No.100	Motor E62327	UL	EN 60950-1	Motor 137205 Driver 140639	DEMKO	Motor EN 60034-1 EN 60034-5 EN 60950-1	-	B-107						
FBL575AW-A	FBLM575W-A	FBLD75AW															
FBL575CW -□	FBLM575W-GFB	FBLD75CW															
FBL575CW-A	FBLM575W-A	FBLD75CW															
FBL575SW -□	FBLM575W-GFB	FBLD75SW															
FBL575SW-A	FBLM575W-A	FBLD75SW															
FBL5120AW -□	FBLM5120W-GFB	FBLD120AW										Driver UL 508C* CSA C22.2 No.14	Driver E171462	EN 60950-1	Motor 137205 Driver 140639	DEMKO	Driver EN 60950-1
FBL5120AW-A	FBLM5120W-A	FBLD120AW															
FBL5120CW -□	FBLM5120W-GFB	FBLD120CW															
FBL5120CW-A	FBLM5120W-A	FBLD120CW															
FBL5120SW -□	FBLM5120W-GFB	FBLD120SW															
FBL5120SW-A	FBLM5120W-A	FBLD120SW															

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C (122°F).

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

● When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.

■ Brushless Motors, BLH Series

Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
			Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
BLH015K -□	BLHM015K-□	BLHD15K	UL 60950-1 CSA C22.2 No.60950-1	E208200	UL	-	-	-	Emission EN 61000-6-4 Immunity EN 61000-6-2	B-122	
BLH015K-A	BLHM015K-A	BLHD15K									
BLH230KC -□	BLHM230KC-GFS	BLHD30K									
BLH230KC-A	BLHM230KC-A	BLHD30K									
BLH450KC -□	BLHM450KC-GFS	BLHD50K									
BLH450KC-A	BLHM450KC-A	BLHD50K									
BLH5100KC -□	BLHM5100KC-GFS	BLHD100K									
BLH5100KC-A	BLHM5100KC-A	BLHD100K									

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

Enter **FR** in the box (■) within the model name (Hollow shaft flat gearhead only).

● When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

■ AC Motor Systems, BHF Series

Model	Motor Model	Speed Controller Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
			Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
BHF62AT -□	BHM62T-G2	FSP200-1	Motor UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	Motor E64197	UL	-	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 IEC 60034-11	Emission EN 61000-6-4 Immunity EN 61000-6-2	B-141	
BHF62AT-A	BHM62T-A	FSP200-1									
BHF62CT -□	BHM62T-G2	FSP200-2									
BHF62CT-A	BHM62T-A	FSP200-2									
BHF62ST -□	BHM62T-G2	FSP200-3									
BHF62ST-A	BHM62T-A	FSP200-3									

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C (122°F).

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

Enter **RH** or **RA** in the box (■) within the model name (Right-angle shaft type only).

● When the package is approved under various safety standards, the model names in the motor and speed controller are the approved model names.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

■ AC Motor Systems, BHF Series with Electromagnetic Brake

Model	Motor Model	Speed Controller Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
			Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
BHF62AMT-□□	BHM62MT-G2	FSP200-1	Motor UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100 Speed Controller UL 508C* CSA C22.2 No.14	Motor E64197 Speed Controller E171462	UL	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 IEC 60034-11 Speed Controller EN 60950-1 EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	B-141		
BHF62AMT-A	BHM62MT-A	FSP200-1									
BHF62CMT-□□	BHM62MT-G2	FSP200-2									
BHF62CMT-A	BHM62MT-A	FSP200-2									
BHF62SMT-□□	BHM62MT-G2	FSP200-3									
BHF62SMT-A	BHM62MT-A	FSP200-3									

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C (122°F).

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

Enter **RH** or **RA** in the box (■) within the model name (Right-angle shaft type only).

● When the package is approved under various safety standards, the model names in the motor and speed controller are the approved model names.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

■ Speed Controller, FE100/FE200

Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
FE100A	UL 508C* CSA C22.2 No.14	E171462	UL		-		EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	B-161
FE100C									
FE100S									
FE200A									
FE200C									
FE200S									

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C (122°F).

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

■ Speed Controller, ES01/ES02

Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
ES01	UL 508 CSA C22.2 No.14	E91291	UL		-		EN 60950-1 EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	B-172
ES02									

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

■ Speed Control Motor, V Series Induction Motors

Motor Model	UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page							
	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	Applicable Standards	Certificate No.	Certification Body								
VSI206A2-GV	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199	UL		-		EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2003010401091525	CQC	B-176							
VSI206C2-GV																			
VSI315A2-GV		E64197								-					EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 IEC 60034-11	-	-	2003010401091522	-
VSI315C2-GV																			
VSI425A2-GV																			
VSI425C2-GV																			
VSI540A2-GVH																			
VSI540C2-GVH																			
VSI560A-GVH																			
VSI560C-GVH																			
VSI590A-GVR																			
VSI590C-GVR																			

Speed Control Motor, V Series Reversible Motors

Motor Model	UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page
	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive	Applicable Standards	Certificate No.	Certification Body	
							Applicable Standards	Applicable Standards				
VSR206A2-GV	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199	UL		-		EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2003010401091525	CQC	B-177
VSR206C2-GV												
VSR315A2-GV		E64197										
VSR315C2-GV												
VSR425A2-GV												
VSR425C2-GV												
VSR540A2-GVH												
VSR540C2-GVH												
VSR560A-GVH												
VSR560C-GVH												
VSR590A-GVR												
VSR590C-GVR							EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 IEC 60034-11	-	-	-	-	

Speed Control Motor, World K Series Induction Motors

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page
Pinion Shaft	Round Shaft	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive	Applicable Standards	Certificate No.	Certification Body	
								Applicable Standards	Applicable Standards				
2IK6RGN-AW2	2IK6RA-AW2	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199	UL		-		EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2003010401091525	CQC	B-178
2IK6RGN-CW2	2IK6RA-CW2												
3IK15RGN-AW2	3IK15RA-AW2		E64197										
3IK15RGN-CW2	3IK15RA-CW2												
4IK25RGN-AW2	4IK25RA-AW2												
4IK25RGN-CW2	4IK25RA-CW2												
5IK40RGN-AW2	5IK40RA-AW2												
5IK40RGN-CW2	5IK40RA-CW2												
5IK60RGU-AW	5IK60RA-AW												
5IK60RGU-CW	5IK60RA-CW												
								EN60034-1 EN60034-5 EN60664-1 EN60950-1 IEC60034-11	-	-	-	-	

Speed Control Motor, World K Series Reversible Motors

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page
Pinion Shaft	Round Shaft	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive	Applicable Standards	Certificate No.	Certification Body	
								Applicable Standards	Applicable Standards				
2RK6RGN-AW2	2RK6RA-AW2	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199	UL		-		EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	GB12350	2003010401091525	CQC	B-179
2RK6RGN-CW2	2RK6RA-CW2												
3RK15RGN-AW2	3RK15RA-AW2		E64197										
3RK15RGN-CW2	3RK15RA-CW2												
4RK25RGN-AW2	4RK25RA-AW2												
4RK25RGN-CW2	4RK25RA-CW2												
5RK40RGN-AW2	5RK40RA-AW2												
5RK40RGN-CW2	5RK40RA-CW2												
5RK60RGU-AW	5RK60RA-AW												
5RK60RGU-CW	5RK60RA-CW												
								EN60034-1 EN60034-5 EN60664-1 EN60950-1 IEC60034-11	-	-	-	-	

■ AC Motor Systems, US Series

Model	Motor Model	Control Unit Model	UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification			Page
			Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	Applicable Standards	Certificate No.	Certification Body	
US206-401U2	USM206-401W2	USP206-1U2	Motor UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100 Control Unit UL 508 CSA C22.2 No.14	Motor E64199 Control Unit E91291 Motor E64197 Control Unit E91291	UL	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	-	Motor GB12350 Control Unit -	Motor 2003010401091525 Control Unit -	Motor CQC Control Unit -	B-205		
US206-001U2	USM206-001W2	USP206-1U2												
US206-402E2	USM206-402W2	USP206-2E2												
US206-002E2	USM206-002W2	USP206-2E2												
US315-401U2	USM315-401W2	USP315-1U2												
US315-001U2	USM315-001W2	USP315-1U2												
US315-402E2	USM315-402W2	USP315-2E2												
US315-002E2	USM315-002W2	USP315-2E2												
US425-401U2	USM425-401W2	USP425-1U2												
US425-001U2	USM425-001W2	USP425-1U2												
US425-402E2	USM425-402W2	USP425-2E2												
US425-002E2	USM425-002W2	USP425-2E2												
US540-401U2	USM540-401W2	USP540-1U2												
US540-001U2	USM540-001W2	USP540-1U2												
US540-402E2	USM540-402W2	USP540-2E2												
US540-002E2	USM540-002W2	USP540-2E2												
US560-501U2	USM560-501W-1	USP560-1U2												
US560-001U2	USM560-001W-1	USP560-1U2												
US560-502E2	USM560-502W-1	USP560-2E2												
US560-002E2	USM560-002W-1	USP560-2E2												
US590-501U2	USM590-501W-1	USP590-1U2												
US590-001U2	USM590-001W-1	USP590-1U2												
US590-502E2	USM590-502W-1	USP590-2E2												
US590-002E2	USM590-002W-1	USP590-2E2												

● When the package is approved under various safety standards, the model names in the motor and control unit are the approved model names.

- Safety Standards
- List of Safety Standard Approved Products
- RoHS Directive Compliance
- ISO 9001, ISO 14001
- Global Power Supply Voltages
- Oriental Motor Corporate Overview
- Oriental Motor Global Sales Network
- Product Recommendation Sheets
- Conversion Charts
- Product Line Updates
- Product Index

Closed Loop Stepping Motor and Driver Package **αSTEP**

AC Input, AS Series, Pulse Input Package

Type	Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page	
				Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive		
										Applicable Standards	Applicable Standards		
Standard Type Motor Frame Size 42 mm (1.65 in.)	AS46 ■A	ASM46■A	ASD13A-A	Motor UL 1004 UL 2111 Driver UL 508C* CSA C22.2 No.14									
Standard Type Motor Frame Size 60 mm (2.36 in.)	AS66 ■AE	ASM66■AE	ASD24A-A	Motor UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	Motor E64199	UL	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	Emission EN 61000-6-4	Immunity EN 61000-6-2	C-29		
	AS66 ■CE	ASM66■CE	ASD12A-C										
	AS66 ■SE	ASM66■CE	ASD12A-S										
	AS69 ■AE	ASM69■AE	ASD30D-A										
	AS69 ■CE	ASM69■CE	ASD16D-C										
AS69 ■SE	ASM69■CE	ASD16D-S											
Standard Type Motor Frame Size 85 mm (3.35 in.)	AS98 ■AE	ASM98■AE	ASD30A-A										
	AS98 ■CE	ASM98■CE	ASD16A-C										
	AS98 ■SE	ASM98■CE	ASD16A-S										
	AS911AAE	ASM911AAE	ASD30E-A										
	AS911ACE	ASM911ACE	ASD20A-C										
Standard Type Industrial Connector Motor Frame Size 60 mm (2.36 in.)	AS911ASE	ASM911ACE	ASD20A-S										
	AS66AAT	ASM66AAT	ASD24A-A										
	AS66ACT	ASM66ACT	ASD12A-C										
	AS66AST	ASM66ACT	ASD12A-S										
	AS69AAT	ASM69AAT	ASD30D-A										
Standard Type Industrial Connector Motor Frame Size 85 mm (3.35 in.)	AS69ACT	ASM69ACT	ASD16D-C										
	AS69AST	ASM69ACT	ASD16D-S										
	AS98AAT	ASM98AAT	ASD30A-A										
	AS98ACT	ASM98ACT	ASD16A-C										
	AS98AST	ASM98ACT	ASD16A-S										
TH Geared Type Motor Frame Size 42 mm (1.65 in.)	AS911AAT	ASM911AAT	ASD30E-A										
	AS911ACT	ASM911ACT	ASD20A-C										
	AS911AST	ASM911ACT	ASD20A-S										
TH Geared Type Motor Frame Size 42 mm (1.65 in.)	AS46 ■A-T□	ASM46■A-T□	ASD13■-A	Motor UL 1004 UL 2111 Driver UL 508C* CSA C22.2 No.14									
	TH Geared Type Motor Frame Size 60 mm (2.36 in.)	AS66 ■AE-T□	ASM66■AE-T□	ASD24■-A	Motor UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	Motor E64199	UL	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	Emission EN 61000-6-4	Immunity EN 61000-6-2	C-31	
		AS66 ■CE-T□	ASM66■CE-T□	ASD12■-C									
AS66 ■SE-T□		ASM66■CE-T□	ASD12■-S										
TH Geared Type Motor Frame Size 90 mm (3.54 in.)	AS98 ■AE-T□	ASM98■AE-T□	ASD30■-A										
	AS98 ■CE-T□	ASM98■CE-T□	ASD16■-C										
	AS98 ■SE-T□	ASM98■CE-T□	ASD16■-S										

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 40°C (104°F).

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

Enter **A** (standard) or **M** (electromagnetic brake type) in the box (■) within the model name or motor model name.

Enter **A**, **B**, **C**, **D** or **E** (driver type) in the box (■) within the driver model name.

● When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

Type	Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
				Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive	
										Applicable Standards	Applicable Standards	
PN Geared Type Motor Frame Size 42 mm (1.65 in.)	AS46 <input type="checkbox"/> A-N <input type="checkbox"/>	ASM46 <input type="checkbox"/> A-N <input type="checkbox"/>	ASD13A-A	Motor UL 1004 UL 2111 Driver UL 508C* CSA C22.2 No.14								C-34
PN Geared Type Motor Frame Size 60 mm (2.36 in.)	AS66 <input type="checkbox"/> AE-N <input type="checkbox"/>	ASM66 <input type="checkbox"/> AE-N <input type="checkbox"/>	ASD24 <input type="checkbox"/> -A	Motor UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77 Driver UL 508C* CSA C22.2 No.14								C-35
	AS66 <input type="checkbox"/> CE-N <input type="checkbox"/>	ASM66 <input type="checkbox"/> CE-N <input type="checkbox"/>	ASD12 <input type="checkbox"/> -C									
	AS66 <input type="checkbox"/> SE-N <input type="checkbox"/>	ASM66 <input type="checkbox"/> CE-N <input type="checkbox"/>	ASD12 <input type="checkbox"/> -S									
PN Geared Type Motor Frame Size 90 mm (3.54 in.)	AS98 <input type="checkbox"/> AE-N <input type="checkbox"/>	ASM98 <input type="checkbox"/> AE-N <input type="checkbox"/>	ASD30A-A	Driver UL 508C* CSA C22.2 No.14	Motor E64199	UL	-			Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	Emission EN 61000-6-4	C-36
	AS98 <input type="checkbox"/> CE-N <input type="checkbox"/>	ASM98 <input type="checkbox"/> CE-N <input type="checkbox"/>	ASD16 <input type="checkbox"/> -C									
	AS98 <input type="checkbox"/> SE-N <input type="checkbox"/>	ASM98 <input type="checkbox"/> CE-N <input type="checkbox"/>	ASD16 <input type="checkbox"/> -S									
Harmonic Geared Type Motor Frame Size 42 mm (1.65 in.)	AS46 <input type="checkbox"/> A2-H <input type="checkbox"/>	ASM46 <input type="checkbox"/> A2-H <input type="checkbox"/>	ASD13A-A	Motor UL 1004 UL 2111 Driver UL 508C* CSA C22.2 No.14								
Harmonic Geared Type Motor Frame Size 60 mm (2.36 in.)	AS66 <input type="checkbox"/> AE-H <input type="checkbox"/>	ASM66 <input type="checkbox"/> AE-H <input type="checkbox"/>	ASD24 <input type="checkbox"/> -A	Motor UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77 Driver UL 508C* CSA C22.2 No.14								C-37
	AS66 <input type="checkbox"/> CE-H <input type="checkbox"/>	ASM66 <input type="checkbox"/> CE-H <input type="checkbox"/>	ASD12 <input type="checkbox"/> -C									
	AS66 <input type="checkbox"/> SE-H <input type="checkbox"/>	ASM66 <input type="checkbox"/> CE-H <input type="checkbox"/>	ASD12 <input type="checkbox"/> -S									
Harmonic Geared Type Motor Frame Size 90 mm (3.54 in.)	AS98 <input type="checkbox"/> AE-H <input type="checkbox"/>	ASM98 <input type="checkbox"/> AE-H <input type="checkbox"/>	ASD30B-A	Driver UL 508C* CSA C22.2 No.14								
	AS98 <input type="checkbox"/> CE-H <input type="checkbox"/>	ASM98 <input type="checkbox"/> CE-H <input type="checkbox"/>	ASD16B-C									
	AS98 <input type="checkbox"/> SE-H <input type="checkbox"/>	ASM98 <input type="checkbox"/> CE-H <input type="checkbox"/>	ASD16B-S									

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 40°C (104°F).

- Enter the gear ratio in the box () within the model name or motor model name.
Enter **A** (standard) or **M** (electromagnetic brake type) in the box () within the model name or motor model name.
Enter A, B, C, D or E (driver type) in the box () within the driver model name.
- When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.
- The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

Safety Standards
 List of Safety Standard Approved Products
 RoHS Directive Compliance
 ISO 9001, ISO 14001
 Global Power Supply Voltages
 Oriental Motor Corporate Overview
 Oriental Motor Global Sales Network
 Product Recommendation Information Sheets
 Conversion Charts
 Product Line Updates
 Product Index

■ Closed Loop Stepping Motor and Driver Package **αSTEP** AC Input, AS Series, Built-In Controller Package

Type	Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page								
				Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive									
										Applicable Standards	Applicable Standards									
Standard Type Motor Frame Size 42 mm (1.65 in.)	AS46 <input type="checkbox"/> AP	ASM46 <input type="checkbox"/> A	ASD13A-AP	Motor UL 1004 UL 2111 Driver UL 508C* CSA C22.2 No.14																
Standard Type Motor Frame Size 60 mm (2.36 in.)	AS66 <input type="checkbox"/> AEP	ASM66 <input type="checkbox"/> AE	ASD24A-AP	Motor UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77 Driver UL 508C* CSA C22.2 No.14	Motor E64199	UL	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	Emission EN 61000-6-4	Immunity EN 61000-6-2	Driver EN 50178	C-29								
	AS66 <input type="checkbox"/> CEP	ASM66 <input type="checkbox"/> CE	ASD12A-CP																	
	AS66 <input type="checkbox"/> SEP	ASM66 <input type="checkbox"/> CE	ASD12A-SP																	
	AS69 <input type="checkbox"/> AEP	ASM69 <input type="checkbox"/> AE	ASD30D-AP																	
	AS69 <input type="checkbox"/> CEP	ASM69 <input type="checkbox"/> CE	ASD16D-CP																	
Standard Type Motor Frame Size 85 mm (3.35 in.)	AS69 <input type="checkbox"/> SEP	ASM69 <input type="checkbox"/> CE	ASD16D-SP																	
	AS98 <input type="checkbox"/> AEP	ASM98 <input type="checkbox"/> AE	ASD30A-AP																	
	AS98 <input type="checkbox"/> CEP	ASM98 <input type="checkbox"/> CE	ASD16A-CP																	
	AS98 <input type="checkbox"/> SEP	ASM98 <input type="checkbox"/> CE	ASD16A-SP																	
	AS91 1AAEP	ASM91 1AAE	ASD30E-AP																	
Standard Type Industrial Connector Motor Frame Size 60 mm (2.36 in.)	AS91 1ACEP	ASM91 1ACE	ASD20A-CP																	
	AS91 1ASEP	ASM91 1ACE	ASD20A-SP																	
	AS66AATP	ASM66AAT	ASD24A-AP																	
	AS66ACTP	ASM66ACT	ASD12A-CP																	
	AS66ASTP	ASM66ACT	ASD12A-SP																	
Standard Type Industrial Connector Motor Frame Size 85 mm (3.35 in.)	AS69AATP	ASM69AAT	ASD30D-AP																	
	AS69ACTP	ASM69ACT	ASD16D-CP																	
	AS69ASTP	ASM69ACT	ASD16D-SP																	
	AS98AATP	ASM98AAT	ASD30A-AP																	
	AS98ACTP	ASM98ACT	ASD16A-CP																	
Standard Type Industrial Connector Motor Frame Size 85 mm (3.35 in.)	AS98ASTP	ASM98ACT	ASD16A-SP																	
	AS91 1AATP	ASM91 1AAT	ASD30E-AP																	
	AS91 1ACTP	ASM91 1ACT	ASD20A-CP																	
	AS91 1ASTP	ASM91 1ACT	ASD20A-SP																	
	TH Geared Type Motor Frame Size 42 mm (1.65 in.)	AS46 <input type="checkbox"/> AP-T <input type="checkbox"/>	ASM46 <input type="checkbox"/> A-T <input type="checkbox"/>	ASD13 <input type="checkbox"/> -AP	Motor UL 1004 UL 2111 Driver UL 508C* CSA C22.2 No.14								C-31							
TH Geared Type Motor Frame Size 60 mm (2.36 in.)	AS66 <input type="checkbox"/> AEP-T <input type="checkbox"/>	ASM66 <input type="checkbox"/> AE-T <input type="checkbox"/>	ASD24 <input type="checkbox"/> -AP	Motor UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	Motor E64199	UL	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	Emission EN 61000-6-4	Immunity EN 61000-6-2	Driver EN 50178	C-32								
	AS66 <input type="checkbox"/> CEP-T <input type="checkbox"/>	ASM66 <input type="checkbox"/> CE-T <input type="checkbox"/>	ASD12 <input type="checkbox"/> -CP																	
	AS66 <input type="checkbox"/> SEP-T <input type="checkbox"/>	ASM66 <input type="checkbox"/> CE-T <input type="checkbox"/>	ASD12 <input type="checkbox"/> -SP																	
TH Geared Type Motor Frame Size 90 mm (3.54 in.)	AS98 <input type="checkbox"/> AEP-T <input type="checkbox"/>	ASM98 <input type="checkbox"/> AE-T <input type="checkbox"/>	ASD30 <input type="checkbox"/> -AP									Driver UL 508C* CSA C22.2 No.14	Motor E64199	UL	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	Emission EN 61000-6-4	Immunity EN 61000-6-2	Driver EN 50178	C-33
	AS98 <input type="checkbox"/> CEP-T <input type="checkbox"/>	ASM98 <input type="checkbox"/> CE-T <input type="checkbox"/>	ASD16 <input type="checkbox"/> -CP																	
	AS98 <input type="checkbox"/> SEP-T <input type="checkbox"/>	ASM98 <input type="checkbox"/> CE-T <input type="checkbox"/>	ASD16 <input type="checkbox"/> -SP																	

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 40°C (104°F).

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

Enter **A** (standard) or **M** (electromagnetic brake type) in the box () within the model name or motor model name.

Enter A, B, C, D or E (driver type) in the box () within the driver model name.

● When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

Type	Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
				Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive	
										Applicable Standards	Applicable Standards	
PN Geared Type Motor Frame Size 42 mm (1.65 in.)	AS46■AP-N□	ASM46■A-N□	ASD13A-AP	Motor UL 1004 UL 2111								C-34
	AS66■AEP-N□	ASM66■AE-N□	ASD24■-AP	Driver UL 508C* CSA C22.2 No.14								C-35
	AS66■CEP-N□	ASM66■CE-N□	ASD12■-CP	Motor UL 1004 UL 2111								
PN Geared Type Motor Frame Size 60 mm (2.36 in.)	AS66■SEP-N□	ASM66■CE-N□	ASD12■-SP	CSA C22.2 No.100 CSA C22.2 No.77								C-36
	AS98■AEP-N□	ASM98■AE-N□	ASD30A-AP	Driver UL 508C* CSA C22.2 No.14								
	AS98■CEP-N□	ASM98■CE-N□	ASD16■-CP	ASD16■-SP								
Harmonic Geared Type Motor Frame Size 42 mm (1.65 in.)	AS46■AP2-H□	ASM46■A2-H□	ASD13A-AP	Motor UL 1004 UL 2111								C-37
	AS66■AEP-H□	ASM66■AE-H□	ASD24■-AP	Driver UL 508C* CSA C22.2 No.14	Motor E64199	UL				Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	Emission EN 61000-6-4 Immunity EN 61000-6-2	
	AS66■CEP-H□	ASM66■CE-H□	ASD12■-CP	Motor UL 1004 UL 2111	Driver E171462							
Harmonic Geared Type Motor Frame Size 60 mm (2.36 in.)	AS66■SEP-H□	ASM66■CE-H□	ASD12■-SP	CSA C22.2 No.100 CSA C22.2 No.77								C-37
	AS98■AEP-H□	ASM98■AE-H□	ASD30B-AP	Driver UL 508C* CSA C22.2 No.14								
	AS98■CEP-H□	ASM98■CE-H□	ASD16B-CP	ASD16B-SP								
Harmonic Geared Type Motor Frame Size 90 mm (3.54 in.)	AS98■SEP-H□	ASM98■CE-H□	ASD16B-SP									

- * Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 40°C (104°F).
- Enter the gear ratio in the box (□) within the model name or motor model name.
Enter **A** (standard) or **M** (electromagnetic brake type) in the box (■) within the model name or motor model name.
Enter A, B, C, D or E (driver type) in the box (■) within the driver model name.
- When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.
- The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

■ Closed Loop Stepping Motor and Driver Package *αSTEP* DC Input, ASC Series

Type	Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
				Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive	
										Applicable Standards	Applicable Standards	
Motor Frame Size 28 mm (1.10 in.)	ASC34AK	ASM34AK	ASD10■-K	Motor UL 60950 CSA C22.2 No.60950	Motor E208200	UL				Emission EN 61000-6-4	Immunity EN 61000-6-2	C-67
	ASC34AK-T□	ASM34AK-T□										C-68
	ASC34AK-N□	ASM34AK-N□										C-71
	ASC34AK-H□	ASM34AK-H□										C-74
	ASC36AK	ASM36AK										C-67
Motor Frame Size 42 mm (1.65 in.)	ASC46■K	ASM46■K	ASD18■-K	Driver UL 1950 CSA C22.2 No.950 UL 508C* CSA C22.2 No.14	Driver E208200 E171462	UL		-	-	Emission EN 61000-6-4	Immunity EN 61000-6-2	C-67
	ASC46■K-T□	ASM46■K-T□										C-69
	ASC46■K-N□	ASM46■K-N□										C-72
	ASC46■K-H□	ASM46■K-H□										C-74
Motor Frame Size 60 mm (2.36 in.)	ASC66■K	ASM66■K	ASD36■-K									C-67
	ASC66■K-T□	ASM66■K-T□										C-70
	ASC66■K-N□	ASM66■K-N□										C-73
	ASC66■K-H□	ASM66■K-H□										C-74

- * Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 40°C (104°F).
- Enter the gear ratio in the box (□) within the model name or motor model name.
Enter **A** (standard) or **M** (electromagnetic brake type) in the box (■) within the model name or motor model name.
Enter A, B or C (driver type) in the box (■) within the driver model name.
- When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.
- The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

■ 5-Phase Stepping Motor and Driver Package, AC Input, RK Series

Type	Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page										
				Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards											
Standard Type Motor Frame Size 42 mm (1.65 in.)	RK543 ■ A	PK543■ W	RKD507-A	Motor UL 1004 UL 2111 Driver UL 508C* CSA C22.2 No.14			Motor EN 60950-1 EN 60034-1 EN 60664-1 EN 60034-5 Driver -	Motor No.114293 Driver -	Motor VDE Driver -			C-97										
	RK544 ■ A	PK544■ W																				
	RK545 ■ A	PK545■ W																				
Standard Type Motor Frame Size 60 mm (2.36 in.)	RK564 ■ AE	PK564■ E	RKD514L-A	Motor UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77		UL	-	-	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 Driver EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	C-98										
	RK566 ■ AE	PK566■ E																				
	RK569 ■ AE	PK569■ E																				
	RK564 ■ CE	PK564■ E	RKD514L-C																			
	RK566 ■ CE	PK566■ E																				
Standard Type Motor Frame Size 85 mm (3.35 in.)	RK596 ■ AE	PK596■ E	RKD514H-A	Motor UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77		UL	-	-	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 Driver EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	C-98										
	RK599 ■ AE	PK599■ E																				
	RK5913 ■ AE	PK5913■ E																				
	RK596 ■ CE	PK596■ E	RKD514H-C																			
	RK599 ■ CE	PK599■ E																				
	Standard Type Terminal Box Motor Frame Size 60 mm (2.36 in.)	RK5913 ■ CE	PK5913■ E										RKD514L-A	Driver UL 508C* CSA C22.2 No.14			-	-	-			C-99
		RK564AAT	PK564AT																			
RK566AAT		PK566AT																				
RK569AAT		PK569AT																				
RK564ACT		PK564AT	RKD514L-C																			
RK566ACT	PK566AT																					
Standard Type Terminal Box Motor Frame Size 85 mm (3.35 in.)	RK596AAT	PK596AT	RKD514H-A	Driver UL 508C* CSA C22.2 No.14			-	-	-			C-99										
	RK599AAT	PK599AT																				
	RK5913AAT	PK5913AT																				
	RK596ACT	PK596AT	RKD514H-C																			
	RK599ACT	PK599AT																				
RK5913ACT	PK5913AT																					

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C (122°F).

- Enter **A** (single shaft) or **B** (double shaft) in the box (■) within the model name or motor model name.
- When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.
- The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

Type	Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page	
				Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive		
										Applicable Standards	Applicable Standards		
TH Geared Type Motor Frame Size 42 mm (1.65 in.)	RK543 <input type="checkbox"/> A-T <input type="checkbox"/>	PK543 <input type="checkbox"/> W-T <input type="checkbox"/>	RKD507-A	Motor UL 1004 UL 2111 Driver UL 508C* CSA C22.2 No.14			Motor EN 60950-1 EN 60034-1 EN 60664-1 EN 60034-5 Driver -	Motor No.114293 Driver -	Motor VDE Driver -			C-100	
TH Geared Type Motor Frame Size 60 mm (2.36 in.)	RK564 <input type="checkbox"/> AE-T <input type="checkbox"/> RK564 <input type="checkbox"/> CE-T <input type="checkbox"/>	PK564 <input type="checkbox"/> E-T <input type="checkbox"/>	RKD514L-A RKD514L-C	Motor UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77								C-101	
TH Geared Type Motor Frame Size 90 mm (3.54 in.)	RK596 <input type="checkbox"/> AE-T <input type="checkbox"/> RK596 <input type="checkbox"/> CE-T <input type="checkbox"/>	PK596 <input type="checkbox"/> E-T <input type="checkbox"/>	RKD514H-A RKD514H-C	Driver UL 508C* CSA C22.2 No.14								C-102	
PN Geared Type Motor Frame Size 42 mm (1.65 in.)	RK544 <input type="checkbox"/> A-N <input type="checkbox"/>	PK544 <input type="checkbox"/> W-N <input type="checkbox"/>	RKD507-A	Motor UL 1004 UL 2111 Driver UL 508C* CSA C22.2 No.14	Motor E64199					Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 Driver EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2		C-103
PN Geared Type Motor Frame Size 60 mm (2.36 in.)	RK566 <input type="checkbox"/> AE-N <input type="checkbox"/> RK564 <input type="checkbox"/> AE-N <input type="checkbox"/> RK566 <input type="checkbox"/> CE-N <input type="checkbox"/> RK564 <input type="checkbox"/> CE-N <input type="checkbox"/>	PK566 <input type="checkbox"/> E-N <input type="checkbox"/> PK564 <input type="checkbox"/> E-N <input type="checkbox"/> PK566 <input type="checkbox"/> E-N <input type="checkbox"/> PK564 <input type="checkbox"/> E-N <input type="checkbox"/>	RKD514L-A RKD514L-C	Motor UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	Driver E171462								C-104
PN Geared Type Motor Frame Size 90 mm (3.54 in.)	RK599 <input type="checkbox"/> AE-N <input type="checkbox"/> RK596 <input type="checkbox"/> AE-N <input type="checkbox"/> RK599 <input type="checkbox"/> CE-N <input type="checkbox"/> RK596 <input type="checkbox"/> CE-N <input type="checkbox"/>	PK599 <input type="checkbox"/> E-N <input type="checkbox"/> PK596 <input type="checkbox"/> E-N <input type="checkbox"/> PK599 <input type="checkbox"/> E-N <input type="checkbox"/> PK596 <input type="checkbox"/> E-N <input type="checkbox"/>	RKD514H-A RKD514H-C	Driver UL 508C* CSA C22.2 No.14									C-105
Harmonic Geared Type Motor Frame Size 42 mm (1.65 in.)	RK543 <input type="checkbox"/> A-H <input type="checkbox"/>	PK543 <input type="checkbox"/> W-H <input type="checkbox"/> S	RKD507-A	Motor UL 1004 UL 2111 Driver UL 508C* CSA C22.2 No.14									C-106
Harmonic Geared Type Motor Frame Size 60 mm (2.36 in.)	RK564 <input type="checkbox"/> AE-H <input type="checkbox"/> RK564 <input type="checkbox"/> CE-H <input type="checkbox"/>	PK564 <input type="checkbox"/> E-H <input type="checkbox"/> S	RKD514L-A RKD514L-C	Motor UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77									
Harmonic Geared Type Motor Frame Size 90 mm (3.54 in.)	RK596 <input type="checkbox"/> AE-H <input type="checkbox"/> RK596 <input type="checkbox"/> CE-H <input type="checkbox"/>	PK596 <input type="checkbox"/> E1-H <input type="checkbox"/>	RKD514H-A RKD514H-C	Driver UL 508C* CSA C22.2 No.14									

- * Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C (122°F).
- Enter the gear ratio in the box (□) within the model name or motor model name.
Enter **A** (single shaft) or **B** (double shaft) in the box (■) within the model name or motor model name.
- When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.
- The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

- Safety Standards
- List of Safety Standard Approved Products
- RoHS Directive Compliance
- ISO 9001, ISO 14001
- Global Power Supply Voltages
- Oriental Motor Corporate Overview
- Oriental Motor Global Sales Network
- Product Recommendation Sheets
- Conversion Charts
- Product Line Updates
- Product Index

■ 5-Phase Stepping Motor and Driver Package, DC Input, CRK Series

Type	Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
				Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive	
										Applicable Standards	Applicable Standards	
High-Resolution Type Motor Frame Size 28 mm (1.10 in.)	CRK523PM \square P	PK523PM \square	CRD5103P	Motor UL 60950-1 CSA C22.2 No.60950-1							C-140	
	CRK524PM \square P	PK524PM \square										
	CRK525PM \square P	PK525PM \square										
High-Resolution Type Motor Frame Size 42 mm (1.65 in.)	CRK544PM \square P	PK544PM \square	CRD5107P	Driver UL 60950-1 CSA C22.2 No.60950-1							C-141	
	CRK546PM \square P	PK546PM \square										
High-Resolution Type Motor Frame Size 60 mm (2.36 in.)	CRK564PM \square P	PK564PM \square	CRD5114P	Motor UL 60950-1 CSA C22.2 No.60950-1							C-142	
	CRK566PM \square P	PK566PM \square										
	CRK569PM \square P	PK569PM \square										
High Torque Type Motor Frame Size 20 mm (0.79 in.)	CRK513P \square P	PK513P \square	CRD5103P	Motor UL 60950 CSA C22.2 No.60950							C-143	
High Torque Type Motor Frame Size 28 mm (1.10 in.)	CRK523P \square P	PK523P \square										
	CRK525P \square P	PK525P \square										
High Torque Type Motor Frame Size 42 mm (1.65 in.)	CRK544P \square P	PK544P \square	CRD5107P	Driver UL 60950-1 CSA C22.2 No.60950-1							C-143	
	CRK546P \square P	PK546P \square										
Standard Type Motor Frame Size 42 mm (1.65 in.)	CRK543 \square P	PK543N \square W	CRD5107P	Motor UL 1004, UL 2111 Driver UL 60950-1 CSA C22.2 No.60950-1							C-143	
	CRK544 \square P	PK544N \square W										
	CRK545 \square P	PK545N \square W										
Standard Type Motor Frame Size 60 mm (2.36 in.)	CRK564 \square P	PK564N \square W	CRD5114P	Motor UL 1004, UL 2111 CSA C22.2 No.77 CSA C22.2 No.100 Driver UL 60950-1 CSA C22.2 No.60950-1							C-144	
	CRK566 \square P	PK566N \square W										
	CRK569 \square P	PK569N \square W										
TH Geared Type Motor Frame Size 28 mm (1.10 in.)	CRK523P \square P-T \square	PK523P \square -T \square	CRD5103P	Motor UL 60950 CSA C22.2 No.60950 Driver UL 60950-1 CSA C22.2 No.60950-1							C-145	
TH Geared Type Motor Frame Size 42 mm (1.65 in.)	CRK543 \square P-T \square	PK543 \square W-T \square	CRD5107P	Motor UL 1004, UL 2111 Driver UL 60950-1 CSA C22.2 No.60950-1							C-146	
TH Geared Type Motor Frame Size 60 mm (2.36 in.)	CRK564 \square P-T \square	PK564 \square W-T \square	CRD5114P	Motor UL 1004, UL 2111 CSA C22.2 No.77 CSA C22.2 No.100 Driver UL 60950-1 CSA C22.2 No.60950-1							C-147	
PN Geared Type Motor Frame Size 28 mm (1.10 in.)	CRK523P \square P-N \square	PK523P \square -N \square	CRD5103P	Motor UL 60950 CSA C22.2 No.60950 Driver UL 60950-1 CSA C22.2 No.60950-1							C-148	
PN Geared Type Motor Frame Size 42 mm (1.65 in.)	CRK544 \square P-N \square	PK544 \square W-N \square	CRD5107P	Motor UL 1004, UL 2111 Driver UL 60950-1 CSA C22.2 No.60950-1								

● Enter the gear ratio in the box (\square) within the model name or motor model name.

Enter **A** (single shaft) or **B** (double shaft) in the box (\square) within the model name or motor model name.

● When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

Type	Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page					
				Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards						
PN Geared Type Motor Frame Size 60 mm (2.36 in.)	CRK566□P-N□	PK566□W-N□	CRD5114P	Motor UL 1004, UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	Motor E64199	UL					C-149						
	CRK564□P-N□	PK564□W-N□	CRD5114P	Driver UL 60950-1 CSA C22.2 No.60950-1	Driver E208200												
Harmonic Geared Type Motor Frame Size 20 mm (0.79 in.)	CRK513P□P-H□	PK513P□H□S	CRD5103P	Motor UL 60950 CSA C22.2 No.60950	Motor E208200							UL				Emission EN 61000-6-4	C-150
Harmonic Geared Type Motor Frame Size 42 mm (1.65 in.)	CRK543□P-H□	PK543□W-H□S	CRD5107P	Motor UL 1004 UL 2111 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor E64199												
Harmonic Geared Type Motor Frame Size 60 mm (2.36 in.)	CRK564□P-H□	PK564□W-H□S	CRD5114P	Motor UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100 Driver UL 60950-1 CSA C22.2 No.60950-1	Driver E208200												

- Enter the gear ratio in the box (□) within the model name or motor model name.
Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name or motor model name.
- When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.
- The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

■ 2-Phase Stepping Motor and Driver Package, RBK Series, Terminal Box Type Motor

Type	Model	Motor Model	Driver Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
				Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
Motor Frame Size 56.4 mm (2.22 in.)	RBK264T	PK264D1T	RBD242A-V	Motor UL1004, UL2111 CSA C22.2 No.77 CSA C22.2 No.100	Motor E64199	UL				Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1	Emission EN 61000-6-4	C-170
	RBK266T	PK266D1T										
	RBK268T	PK268D1T										
Motor Frame Size 85 mm (3.35 in.)	RBK296T	PK296DT	RBD245A-V	Driver UL508C CSAC22.2 No.14	Driver E171462	UL				Immunity EN 61000-6-2	C-171	
	RBK299T	PK299DT										
	RBK2913T	PK2913DT										

- When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.
- The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the motor and driver incorporated in the user's equipment.

■ 2-Phase Stepping Motors, PK Series Standard Type Terminal Box

Type	Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
		Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
Motor Frame Size 56.4 mm (2.22 in.)	PK264DAT	UL 1004 UL 2111	E64199	UL				EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1		C-242
	PK266DAT									
	PK268DAT									
Motor Frame Size 85 mm (3.35 in.)	PK296EAT	CSA C22.2 No.100 CSA C22.2 No.77	E64199	UL				EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1		C-257
	PK299EAT									
	PK2913EAT									

■ Motorized Linear Slides, EZS II Series

Power Supply Voltage	Model	Linear Slide Model	Controller Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page	
				Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive		
										Applicable Standards	Applicable Standards		
24 VDC	EZS3D □-K EZS3D □M-K	EZSM3D□K EZSM3D□MK	ESMC-K2									D-26	
	EZS3E □-K EZS3E □M-K	EZSM3E□K EZSM3E□MK	ESMC-K2										
	EZS4D □-K EZS4D □M-K	EZSM4D□K EZSM4D□MK	ESMC-K2										D-30
	EZS4E □-K EZS4E □M-K	EZSM4E□K EZSM4E□MK	ESMC-K2										
	EZS6D □-K EZS6D □M-K	EZSM6D□K EZSM6D□MK	ESMC-K2										D-34
	EZS6E □-K EZS6E □M-K	EZSM6E□K EZSM6E□MK	ESMC-K2										
	Single-Phase 100-115 VAC	EZS3D □-A EZS3D □M-A	EZSM3D□A EZSM3D□MA	ESMC-A2									
EZS3E □-A EZS3E □M-A		EZSM3E□A EZSM3E□MA	ESMC-A2										
EZS4D □-A EZS4D □M-A		EZSM4D□A EZSM4D□MA	ESMC-A2									D-32	
EZS4E □-A EZS4E □M-A		EZSM4E□A EZSM4E□MA	ESMC-A2										
EZS6D □-A EZS6D □M-A		EZSM6D□A EZSM6D□MA	ESMC-A2									D-36	
EZS6E □-A EZS6E □M-A		EZSM6E□A EZSM6E□MA	ESMC-A2										
Single-Phase 200-230 VAC		EZS3D □-C EZS3D □M-C	EZSM3D□C EZSM3D□MC	ESMC-C2									D-28
	EZS3E □-C EZS3E □M-C	EZSM3E□C EZSM3E□MC	ESMC-C2										
	EZS4D □-C EZS4D □M-C	EZSM4D□C EZSM4D□MC	ESMC-C2									D-32	
	EZS4E □-C EZS4E □M-C	EZSM4E□C EZSM4E□MC	ESMC-C2										
	EZS6D □-C EZS6D □M-C	EZSM6D□C EZSM6D□MC	ESMC-C2									D-36	
	EZS6E □-C EZS6E □M-C	EZSM6E□C EZSM6E□MC	ESMC-C2										

- Enter the stroke in the box (□) within the model name or linear slide model name.
- The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the linear slides and controller incorporated in the user's equipment.
- The linear slides, controllers and teaching pendant (**EZT1**) are designed and manufactured for use in general industrial equipment as an internal component, and therefore need not comply with the Machinery Directive. However, each product has been evaluated under the following standards:
EN ISO 12100-1, EN ISO 12100-2, EN 1050, EN 954-1, EN 60204-1

■ Motorized Cylinders, EZC Series

Power Supply Voltage	Model	Cylinder Model	Controller Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
				Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive	
										Applicable Standards	Applicable Standards	
24 VDC	EZC4 -□CI EZC4 -□MCI	EZC4-□ EZC4-□M	EZMC36I									D-82
	EZC4 -□CA EZC4 -□MCA	EZC4-□ EZC4-□M	EZMC36A									
	EZC6 -□CI EZC6 -□MCI	EZC6-□ EZC6-□M	EZMC36I									
	EZC6 -□CA EZC6 -□MCA	EZC6-□ EZC6-□M	EZMC36A									

- Enter the stroke in the box (□) within the model name or cylinder model name.
- The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the linear slides and controller incorporated in the user's equipment.
- The cylinders, controllers and teaching pendant (**EZT1**) are designed and manufactured for use in general industrial equipment as an internal component, and therefore need not comply with the Machinery Directive. However, each product has been evaluated under the following standards:
EN 292-1, EN 292-2, EN 1050, EN 954-1, EN 60204-1

Motorized Cylinders, EZHC Series

Power Supply Voltage	Model	Cylinder Model	Controller Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
				Motor Model	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	
Single-Phase 100-115 VAC	EZHC4A-□I EZHC4A-□MI	EZHC4A-□ EZHC4A-□M	EZMC13I-A	EZHM46AA EZHM46MA	Motor UL 1004 UL 2111	Motor E64199 Controller E171462	UL	-	Cylinder EN 60950-1 EN 60034-1 EN 60034-5 EN 60664-1 Controller EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	D-96	
	EZHC4A-□A EZHC4A-□MA	EZHC4A-□ EZHC4A-□M	EZMC13A-A	EZHM46AA EZHM46MA	Controller UL 508C* CSA C22.2 No.14							
	EZHC6A-□I EZHC6A-□MI	EZHC6A-□ EZHC6A-□M	EZMC24I-A	EZHM66AA EZHM66MA	Motor UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100							
	EZHC6A-□A EZHC6A-□MA	EZHC6A-□ EZHC6A-□M	EZMC24A-A	EZHM66AA EZHM66MA	Controller UL 508C* CSA C22.2 No.14							
Single-Phase 200-230 VAC	EZHC6C-□I EZHC6C-□MI	EZHC6C-□ EZHC6C-□M	EZMC12I-C	EZHM66AC EZHM66MC	Controller UL 508C* CSA C22.2 No.14	Motor E64199 Controller E171462	UL	-	Cylinder EN 60950-1 EN 60034-1 EN 60034-5 EN 60664-1 Controller EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	D-96	
	EZHC6C-□A EZHC6C-□MA	EZHC6C-□ EZHC6C-□M	EZMC12A-C	EZHM66AC EZHM66MC	Controller UL 508C* CSA C22.2 No.14							

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 40°C (104°F).

● Enter the stroke in the box (□) within the model name or cylinder model name.

● When the package is approved under various safety standards, the model names in the motor and controller are the approved model names.

● Teaching pendant (**EZT1**) is not UL recognized component.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the linear slides and controller incorporated in the user's equipment.

● The cylinders, controllers and teaching pendant (**EZT1**) are designed and manufactured for use in general industrial equipment as an internal component, and therefore need not comply with the Machinery Directive. However, each product has been evaluated under the following standards:

EN 292-1, EN 292-2, EN 1050, EN 954-1, EN 60204-1

Motorized Cylinders, EZHP Series

Power Supply Voltage	Model	Cylinder Model	Controller Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
				Motor Model	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	
Single-Phase 100-115 VAC	EZHP4A-□I EZHP4A-□MI	EZHP4A-□ EZHP4A-□M	EZMC13I-A	EZHM46AA EZHM46MA	Motor UL 1004 UL 2111	Motor E64199 Controller E171462	UL	-	Cylinder EN 60950-1 EN 60034-1 EN 60034-5 EN 60664-1 Controller EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	D-112	
	EZHP4A-□A EZHP4A-□MA	EZHP4A-□ EZHP4A-□M	EZMC13A-A	EZHM46AA EZHM46MA	Controller UL 508C* CSA C22.2 No.14							
	EZHP6A-□I EZHP6A-□MI	EZHP6A-□ EZHP6A-□M	EZMC24I-A	EZHM66AA EZHM66MA	Motor UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100							
	EZHP6A-□A EZHP6A-□MA	EZHP6A-□ EZHP6A-□M	EZMC24A-A	EZHM66AA EZHM66MA	Controller UL 508C* CSA C22.2 No.14							
Single-Phase 200-230 VAC	EZHP6C-□I EZHP6C-□MI	EZHP6C-□ EZHP6C-□M	EZMC12I-C	EZHM66AC EZHM66MC	Controller UL 508C* CSA C22.2 No.14	Motor E64199 Controller E171462	UL	-	Cylinder EN 60950-1 EN 60034-1 EN 60034-5 EN 60664-1 Controller EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	D-112	
	EZHP6C-□A EZHP6C-□MA	EZHP6C-□ EZHP6C-□M	EZMC12A-C	EZHM66AC EZHM66MC	Controller UL 508C* CSA C22.2 No.14							

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 40°C (104°F).

● Enter the stroke in the box (□) within the model name or cylinder model name.

● When the package is approved under various safety standards, the model names in the motor and controller are the approved model names.

● Teaching pendant (**EZT1**) is not UL recognized component.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the linear slides and controller incorporated in the user's equipment.

● The cylinders, controllers and teaching pendant (**EZT1**) are designed and manufactured for use in general industrial equipment as an internal component, and therefore need not comply with the Machinery Directive. However, each product has been evaluated under the following standards:

EN 292-1, EN 292-2, EN 1050, EN 954-1, EN 60204-1

■ Compact Linear Actuators, DRL Series

Type	Model	Actuator Model	Driver Model	UL/CSA Standards				EN/IEC Standards			CE Marking		Page								
				Motor Model	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards									
High-Resolution Motor Frame Size 28 mm (1.10 in.)	DRL28MB1-03G	DRL28MB1-03	CRD5107P	SM28M	Motor UL 60950 CSA C22.2 No.60950-1																
	DRL28MB1-03NG	DRL28MB1-03N		SM28MH																	
	DRL28MB1G-03G	DRL28MB1G-03		SM28MG																	
	DRL28MB1G-03NG	DRL28MB1G-03N		SM28MGH																	
High-Resolution Motor Frame Size 42 mm (1.65 in.)	DRL42MB2-04G	DRL42MB2-04		SM42M									Driver UL 60950-1 CSA C22.2 No.60950-1								
	DRL42MB2-04MG	DRL42MB2-04M		SM42MM																	
	DRL42MB2-04NG	DRL42MB2-04N		SM42MH																	
	DRL42MB2G-04G	DRL42MB2G-04		SM42MG																	
	DRL42MB2G-04MG	DRL42MB2G-04M		SM42MGM																	
	DRL42MB2G-04NG	DRL42MB2G-04N		SM42MGH																	
High-Resolution Motor Frame Size 60 mm (2.36 in.)	DRL60MB4-05G	DRL60MB4-05		CRD5114P									SM60M	Driver UL 60950-1 CSA C22.2 No.60950-1							
	DRL60MB4-05MG	DRL60MB4-05M											SM60MM								
	DRL60MB4-05NG	DRL60MB4-05N	SM60MH																		
	DRL60MB4G-05G	DRL60MB4G-05	SM60MG																		
	DRL60MB4G-05MG	DRL60MB4G-05M	SM60MGM																		
	DRL60MB4G-05NG	DRL60MB4G-05N	SM60MGH																		
Standard Motor Frame Size 20 mm (0.79 in.)	DRL20PB1-02G	DRL20PB1-02	CRD5103P	SM20P	Motor E208200		UL					Emission EN 61000-6-4									
	DRL20PB1-02NG	DRL20PB1-02N		SM20PH																	
	DRL20PB1G-02G	DRL20PB1G-02		SM20PG																	
	DRL20PB1G-02NG	DRL20PB1G-02N		SM20PGH																	
Standard Motor Frame Size 28 mm (1.10 in.)	DRL28P□1-03G	DRL28P□1-03	CRD5107P	SM28P	Motor UL 60950 CSA C22.2 No.60950																
	DRL28P□1-06G	DRL28P□1-06		SM28PH																	
	DRL28P□1-03NG	DRL28P□1-03N		SM28PG																	
	DRL28P□1G-03G	DRL28P□1G-03		SM28PGH																	
	DRL28P□1G-03NG	DRL28P□1G-03N		SM42P																	
	DRL42P□2-04G	DRL42P□2-04		SM42PM																	
Standard Motor Frame Size 42 mm (1.65 in.)	DRL42P□2-10G	DRL42P□2-10		SM42PH									Driver UL 60950-1 CSA C22.2 No.60950-1								D-136 or D-137
	DRL42P□2-04MG	DRL42P□2-04M		SM42PG																	
	DRL42P□2-04NG	DRL42P□2-04N		SM42PGM																	
	DRL42P□2G-04G	DRL42P□2G-04		SM42PGH																	
	DRL42P□2G-04MG	DRL42P□2G-04M		SM60P																	
	DRL42P□2G-04NG	DRL42P□2G-04N		SM60PH																	
Standard Motor Frame Size 60 mm (2.36 in.)	DRL60P□4-05G	DRL60P□4-05	CRD5114P	SM60PM																	
	DRL60P□4-10G	DRL60P□4-10		SM60PG																	
	DRL60P□4-05MG	DRL60P□4-05M		SM60PGM																	
	DRL60P□4-05NG	DRL60P□4-05N		SM60PGH																	
	DRL60P□4G-05G	DRL60P□4G-05																			
	DRL60P□4G-05MG	DRL60P□4G-05M																			
DRL60P□4G-05NG	DRL60P□4G-05N																				

- Enter **A** (rolled ball screw type) or **B** (ground ball screw type) in the box (□) within the model name or actuator model name.
- When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.
- The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the actuator and driver incorporated in the user's equipment.

Hollow Rotary Actuators, DG Series, Pulse Input Package

Type	Model	Actuator Model	Driver Model	UL/CSA Standards				EN/IEC Standards			CE Marking		Page														
				Motor Model	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards															
Frame Size 60 mm (2.36 in.)	DG60-AS□K	DGM60-AS□K	ASD10A-K	ASM34□K-D	Motor UL 60950 CSA C22.2 No.60950 Driver UL 508C* ¹ CSA C22.2 No.14 UL 1950 CSA C22.2 No.950	Motor E208200 Driver E171462 E208200	UL	-	-	-	Emission EN 61000-6-4 Immunity EN 61000-6-2	D-171															
Frame Size 85 mm (3.35 in.)	DG85R-AS□A	DGM85R-AS□A	ASD13B-A	ASM46□A-D	Motor UL 1004 UL 2111 Driver UL 508C* ² CSA C22.2 No.14	Motor E64199 Driver E171462				-	-		Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 Driver EN 60950-1 EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	D-171												
Frame Size 130 mm (5.12 in.)	DG130R-AS□A	DGM130R-AS□A	ASD24A-A	ASM66□A-D	Motor UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77 Driver UL 508C* ² CSA C22.2 No.14											Motor E64199 Driver E171462	-	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 Driver EN 60950-1 EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	D-171						
	DG130R-AS□C	DGM130R-AS□C	ASD12A-C	ASM66□C-D																							
	DG130R-AS□S	DGM130R-AS□C	ASD12A-S	ASM66□C-D																							
Frame Size 200 mm (7.87 in.)	DG200R-AS□A	DGM200R-AS□A	ASD30E-A	ASM911□A-D	Motor UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100 Driver UL 508C* ² CSA C22.2 No.14																	Motor E64199 Driver E171462	-	-	Motor EN 60034-1 EN 60034-5 EN 60664-1 EN 60950-1 Driver EN 60950-1 EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	D-171
	DG200R-AS□C	DGM200R-AS□C	ASD20A-C	ASM911□C-D																							
	DG200R-AS□S	DGM200R-AS□C	ASD20A-S	ASM911□C-D																							

*1 Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 40°C (104°F).

*2 Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C (122°F).

● Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model name, actuator model name or motor model name.

● When the package is approved under various safety standards, the model names in the motor and driver are the approved model names.

● The EMC value changes according to the wiring and layout. Therefore, the final EMC level must be checked with the actuator and driver incorporated in the user's equipment.

- Safety Standards
- List of Safety Standard Approved Products
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- ISO 9001, ISO 14001
- Global Power Supply Voltages
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■ Axial Flow Fans, AC Input, MRS Series

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	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
MRS25-B	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-			E-54
MRS25-D									
MRS25-T									
MRS25-BM									
MRS25-DM									
MRS25-TM									
MRS25-BB									
MRS25-DB									
MRS25-TB									
MRS20-BM									
MRS20-DM	UL 507 CSA C22.2 No.113	E58377/LR62524	UL/CSA	EN 60950-1	5867	VDE			E-56
MRS20-TM									
MRS20-BUL									
MRS20-DUL									
MRS20-TUL									
MRS18-BH	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-	EN 60950-1	-	E-58
MRS18-DH									
MRS18-TH									
MRS18-BMH									
MRS18-DMH									
MRS18-TMH									
MRS18-BTM	UL 507 CSA C22.2 No.113	E58377/LR62524	UL/CSA	EN 60950-1	5868	VDE			E-62
MRS18-DTM									
MRS18-TTM									
MRS18-BUL									
MRS18-DUL									
MRS18-TUL									
MRS16-BTM	UL 507 CSA C22.2 No.113	E58377/LR62524	UL/CSA	EN 60950-1	5869	VDE			E-66
MRS16-DTM									
MRS16-TTM									
MRS16-BTA									
MRS16-DTA									
MRS16-TTA									
MRS16-BUL									
MRS16-DUL									
MRS16-TUL									
MRS14-TTM	UL 507 CSA C22.2 No.113	E58377/LR62524	UL/CSA	EN 60950-1	5866	VDE			E-68
MRS14-TUL									
MRS18V2-B	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-			E-68
MRS18V2-D									

■ Axial Flow Fans, AC Input, MU Series

Model	UL/CSA Standards			EN/IEC Standards			CE Marking		JET		Page
	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive	Certificate No.	Certification Body	
							Applicable Standards	Applicable Standards			
MU1238A-21B	UL 507 CSA C22.2 No.113	E58377/LR62524	UL/CSA	EN 60950-1	5870	VDE	EN 60950-1	-	0018-91002-001	JET	E-70
MU1238B-21B											
MU1238L-21B											
MU1238A-51B	UL 507 CSA C22.2 No.113	E58377/LR62524	UL/CSA	EN 60950-1	5870	VDE	EN 60950-1	-	0018-91002-002 0018-91002-003	JET	E-70
MU1238B-51B											
MU1238L-51B											
MU1225S-21	UL 507 CSA C22.2 No.113	E58377/LR62524	UL/CSA	EN 60950-1	5870	VDE	EN 60950-1	-	0018-91002-001	JET	E-72
MU1225M-21											
MU1225S-51											
MU1225M-51	UL 507 CSA C22.2 No.113	E58377/LR62524	UL/CSA	EN 60950-1	5870	VDE	EN 60950-1	-	0018-91002-002 0018-91002-003	JET	E-72
MU925S-21											
MU925M-21											
MU925S-51	UL 507 CSA C22.2 No.113	E58377/LR62524	UL/CSA	EN 60950-1	5870	VDE	EN 60950-1	-	0018-91002-001	JET	E-74
MU925M-51											
MU925S-51											
MU825S-23	UL 507 CSA C22.2 No.113	E58377/LR62524	UL/CSA	EN 60950-1	5870	VDE	EN 60950-1	-	-	-	E-76
MU825S-53											

● MU Series display the PSE mark  to indicate their compliance with the Electrical Appliance and Material Safety Law (products other than special electrical appliances and materials).

■ Axial Flow Fans, DC Input, MDE Series, MDS Series, MD Series

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	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive	EMC Directive	
							Applicable Standards	Applicable Standards	
MDE1225-12L	UL 507 CSA C22.2 No.113	E58377	UL	EN 60950-1	135713	DEMKO	-	-	E-78
MDE1225-24L									
MDS1751-24BH	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-	-	-	E-80
MDS1751-24SH									
MDS1751-24H	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-	-	-	E-80
MDS1751-24B									
MDS1751-24S	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-	-	-	E-80
MDS1751-24									
MDS1451-24H	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-	-	-	E-82
MDS1451-48H									
MDS1451-24SH									
MDS1451-48SH									
MDS1451-24LH									
MDS1451-48LH									
MDS1451-24	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-	-	-	E-82
MDS1451-48									
MDS1451-24S									
MDS1451-48S									
MDS1451-24L									
MDS1451-48L									
MDS1225-12H	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-	-	-	E-84
MDS1225-24H									
MDS1225-12MH									
MDS1225-24MH									
MDS1225-12	UL 507 CSA C22.2 No.113	E58377	UL	EN 60950-1	135713	DEMKO	-	-	E-84
MDS1225-24									
MDS1225-12M									
MDS1225-24M									
MD1225-12H	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-	-	-	E-86
MD1225-24H									
MD1225-12									
MD1225-24	UL 507 CSA C22.2 No.113	E58377	UL	EN 60950-1	135713	DEMKO	-	-	E-86
MD1225-12									
MD1225-24	UL 507 CSA C22.2 No.113	E58377	UL	EN 60950-1	135713	DEMKO	-	-	E-86
MD1225-12									

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MD925A-12H	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-			E-88			
MD925A-24H												
MD925A-12SH												
MD925A-24SH												
MD925A-12LH												
MD925A-24LH												
MD925A-12												
MD925A-24												
MD925AM-12												
MD925AM-24												
MD925AL-12	UL 507 CSA C22.2 No.113	E58377	UL	EN 60950-1	135713	DEMKO			E-88			
MD925AL-24												
MD925A-12S												
MD925A-24S												
MD925A-12L												
MD925A-24L												
MD925A-12												
MD925A-24												
MD925AM-12												
MD925AM-24												
MD825B-12H	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-			E-90			
MD825B-24H												
MD825B-12SH												
MD825B-24SH												
MD825B-12LH												
MD825B-24LH												
MD825B-12												
MD825B-24												
MD825BM-12												
MD825BM-24												
MD825BL-12	UL 507 CSA C22.2 No.113	E58377	UL	EN 60950-1	135713	DEMKO			E-90			
MD825B-12S												
MD825B-24S												
MD825B-12L												
MD825B-24L												
MD825B-12												
MD825B-24												
MD825BM-12												
MD825BM-24												
MD625B-12H	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-						E-92
MD625B-24H												
MD625B-12SH												
MD625B-24SH												
MD625B-12LH												
MD625B-24LH												
MD625B-12												
MD625B-24												
MD625BM-12												
MD625BM-24												
MD625B-12S	UL 507 CSA C22.2 No.113	E58377	UL	EN 60950-1	135713	DEMKO			E-92			
MD625B-24S												
MD625B-12L												
MD625B-24L												
MD625B-12												
MD625B-24												
MD625BM-12												
MD625BM-24												
MDS510-12H	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-						E-94
MDS510-24H												
MDS510M-5H												
MDS510-12LH												
MDS510-24LH												
MDS510-12												
MDS510-24												
MDS510M-12												
MDS510M-24												
MDS510M-5	UL 507 CSA C22.2 No.113	E58377	UL	EN 60950-1	135713	DEMKO			E-94			
MDS510-12L												
MDS510-24L												
MDS510-12												
MDS510-24												
MDS510M-12												
MDS510M-24												
MDS410-12H	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-						E-96
MDS410-24H												
MDS410M-5H												
MDS410-12LH												
MDS410-24LH												
MDS410-12												
MDS410-24												
MDS410M-5												
MDS410-12L												
MDS410-24L	UL 507 CSA C22.2 No.113	E58377	UL	EN 60950-1	135713	DEMKO			E-96			
MDS410-12												
MDS410-24												
MDS410M-5												
MDS410-12L												
MDS410-24L												

Centrifugal Blowers, AC Input, MB Series

Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
MB1665-B	UL 507 CSA C22.2 No.113	E58377	UL	EN 60950-1	6755	VDE	EN 60950-1	-	E-102
MB1665-D									E-104
MB1665-T									E-106
MB1255-B									E-108
MB1255-D									E-110
MB1255-T									E-112
MB1040-B									
MB1040-D									
MB840-B									
MB840-D									
MB840-T									
MB630-B									
MB630-D									
MB520-B									
MB520-D									

Cross Flow Fans, AC Input, MF Series

Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
MF930-BC	UL 507 CSA C22.2 No.113	E58377	UL	-	-	-	EN 60950-1	-	E-124
MF930B-BC									E-126
MF930-DC									
MF930B-DC									
MF915-BC									
MF915B-BC									
MF915-DC									
MF915B-DC									

Thermostats

Model	UL/CSA Standards			EN/IEC Standards			CE Marking		Page
	Applicable Standards	File No. or Certificate No.	Certification Body	Applicable Standards	Licence No. or Certificate No.	Certification Body	Low Voltage Directive Applicable Standards	EMC Directive Applicable Standards	
AM1-WA1 AM1-XA1	UL 873 CSA C22.2 No.24	E195863	UL	-	-	-	EN 60730-1 EN 60730-2-9	EN 55014-1-2 EN 61000-3-2 EN 61000-3-3	E-134