

List of Safety Standard Approved Products

(Last updated March 2011)

■ Induction Motors World K Series Lead Wire Type

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification System			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				
2IK6GN-CW2	2IK6A-CW2	UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	E64199	UL	—	—	—	EN 60034-1 EN 60034-5 EN 60950-1 EN 60664-1	—	GB12350	2003010401091525	CQC	A-26
2IK6GN-SW2	2IK6A-SW2		2003010401091527								A-30		
3IK15GN-CW2	3IK15A-CW2		2003010401091522								A-34		
4IK25GN-CW2	4IK25A-CW2		2003010401091520								A-38		
4IK25GN-SW2	4IK25A-SW2		2003010401091522								A-42		
5IK40GN-CW2	5IK40A-CW2		2003010401091520								A-46		
5IK40GN-SW2	5IK40A-SW2		2003010401091522										
5IK60GE-CW2	5IK60A-CW2		2003010401091520										
5IK60GE-SW2	5IK60A-SW2		2003010401091522										
5IK90GE-CW2	5IK90A-CW2		2003010401091522										
5IK90GE-SW2	5IK90A-SW2		2003010401091520										

■ Induction Motors World K Series Terminal Box Type

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification System			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								
2IK6GN-CW2B	2IK6A-CW2B	UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	E64199	UL	—	—	—	EN 60034-1 EN 60034-5 EN 60950-1 EN 60664-1	—	GB12350	2003010401091525	CQC	A-26							
2IK6GN-SW2B	2IK6A-SW2B		E64197								2003010401091527		A-34							
4IK25GN-CW2T	4IK25A-CW2T										2003010401091522		A-38							
4IK25GN-SW2T	4IK25A-SW2T										2003010401091522		A-42							
5IK40GN-CW2T	5IK40A-CW2T										2003010401091522		A-46							
5IK40GN-SW2T	5IK40A-SW2T										2003010401091520									
5IK60GE-CW2T	5IK60A-CW2T										2003010401091522									
5IK60GE-SW2T	5IK60A-SW2T										2003010401091520									
5IK90GE-CW2T	5IK90A-CW2T										2003010401091522									
5IK90GE-SW2T	5IK90A-SW2T										2003010401091520									

● Round shaft motors (2IK6A-SW2B, 4IK25A-SW2T, 5IK40A-SW2T, 5IK60A-SW2T and 5IK90A-SW2T) display the PSE mark (PSE) to indicate their compliance with the Electrical Appliance and Material Safety Law (products other than special electrical appliances and materials).

■ Induction Motors World K Series Three-Phase 400 VAC Type

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	
4IK25GN-UT4	4IK25A-UT4	—	—	—	EN 60950-1 EN 60034-1 EN 60034-5	R50079501 J50083301	TÜV	EN 60950-1 EN 60034-5 EN 60034-1 EN 60664-1 IEC 60034-11	—	A-34
5IK40GN-UT4	5IK40A-UT4									A-38
5IK60GE-UT4F	5IK60A-UT4F									A-42
5IK90GE-UT4F	5IK90A-UT4F									A-46

■ Reversible Motors World K Series Lead Wire Type

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification System			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				
2RK6GN-CW2	2RK6A-CW2	UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	E64199	UL	—	—	—	EN 60034-1 EN 60034-5 EN 60950-1 EN 60664-1	—	GB12350	2003010401091525	CQC	A-68
3RK15GN-CW2	3RK15A-CW2		E64197								2003010401091522		A-72
4RK25GN-CW2	4RK25A-CW2												A-76
5RK40GN-CW2	5RK40A-CW2												A-80
5RK60GE-CW2	5RK60A-CW2												A-84
5RK90GE-CW3	5RK90A-CW3												A-88

Reversible Motors World K Series Terminal Box Type

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification System			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				
2RK6GN-CW2B	2RK6A-CW2B	UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	E64199	UL		—		EN 60034-1 EN 60034-5 EN 60950-1 EN 60664-1	—	GB12350	2003010401091525	CQC	A-68
4RK25GN-CW2T	4RK25A-CW2T		E64197								2003010401091522		A-76
5RK40GN-CW2T	5RK40A-CW2T												A-80
5RK60GE-CW2T	5RK60A-CW2T												A-84
5RK90GE-CW3T	5RK90A-CW3T												A-88

Electromagnetic Brake Motors World K Series

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification System			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											
2RK6GN-CW2M	2RK6A-CW2M	UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	E64199	UL		—		EN 60034-1 EN 60034-5 EN 60950-1 EN 60664-1	—	GB12350	2003010401091525	CQC	A-102							
3RK15GN-CW2M	3RK15A-CW2M		E64197																	A-106
4RK25GN-CW2M	4RK25A-CW2M																			A-110
5RK40GN-CW2M	5RK40A-CW2M																			A-114
5RK60GE-CW2M	5RK60A-CW2M																			A-118
5RK90GE-CW2M	5RK90A-CW2M																			A-122

Induction Motors 2-Pole, High-Speed Type

Model	UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification System			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				
4IK40A-DW3	UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	E64197	UL		—		EN 60034-1	—	GB12350	2005010401150785	CQC	A-56
4IK60A-DW3							EN 60034-5					
5IK60A-DW3							EN 60950-1					
5IK90A-DW3							EN 60664-1					
5IK150A-DW3												

Induction Motors BH Series

Model	Motor Model	UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification System			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				
BHI62ET-□	BHI62ET-G2	UL 1004	E64197	UL		—		EN 60034-1	—	GB12350	2003010401091522	CQC	A-50
BHI62ET-A	—	UL 2111						EN 60034-5			2003010401091520		
BHI62ST-□	BHI62ST-G2	CSA C22.2 No.100						EN 60950-1					
BHI62ST-A	—	CSA C22.2 No.77						EN 60664-1					

- 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.
- Round shaft, terminal box type motors (**BHI62ST-A**) display the PSE mark (PSE) to indicate their compliance with the Electrical Appliance and Material Safety Law (products other than special electrical appliances and materials).

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	EMC Directive	
							Applicable Standards	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-147

General Information

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Oriental Motor Corporate Overview

Oriental Motor Global Sales Network

■AC Speed Control Motors US Series

Model	Motor Model	Control Unit Model	UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification System			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				
US206-402E2	USM206-402W2	USP206-2E2	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	UL	—	—	Motor EN 60034-1 EN 60034-5 EN 60950-1 EN 60664-1 Control Unit EN 60950-1 EN 50178	Enmision EN 61000-6-4 Immunity EN61000-6-2	Motor GB12350 Control Unit —	Motor 2003010401091525	Motor CQC Control Unit —	A-167	
US206-002E2	USM206-002W2	USP206-2E2		Control Unit E91291							Control Unit —			
US315-402E2	USM315-402W2	USP315-2E2		Motor E64197 Control Unit E91291							Motor 2003010401091522 Control Unit —			
US315-002E2	USM315-002W2	USP315-2E2												
US425-402E2	USM425-402W2	USP425-2E2												
US425-002E2	USM425-002W2	USP425-2E2												
US540-402E2	USM540-402W2	USP540-2E2												
US540-002E2	USM540-002W2	USP540-2E2												
US560-502E2	USM560-502W-1	USP560-2E2												
US560-002E2	USM560-002W-1	USP560-2E2												
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.

■AC Speed Controller Speed Controller 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	
ES02	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-178

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

■AC Speed Control Motors World K Series Induction Motors

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification System			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	Applicable Standards	Certificate No.	Certification Body	
								Applicable Standards	Applicable Standards				
2IK6RGN-CW2	2IK6RA-CW2	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199	UL	—	—	—	EN 60034-1 EN 60034-5 EN 60950-1 EN 60664-1	—	GB12350	2003010401091525	CQC	A-181
3IK15RGN-CW2	3IK15RA-CW2		E64197								—		
4IK25RGN-CW2	4IK25RA-CW2												
5IK40RGN-CW2	5IK40RA-CW2												
5IK60RGU-CW*	5IK60RA-CW*												

* Models certified under CCC (China Compulsory Certification) System are also available. For details, contact your nearest Oriental Motor sales office.

■AC Speed Control Motors World K Series Reversible Motors

Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification System			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	Applicable Standards	Certificate No.	Certification Body	
								Applicable Standards	Applicable Standards				
2RK6RGN-CW2	2RK6RA-CW2	UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100	E64199	UL		—		EN 60034-1 EN 60034-5 EN 60950-1 EN 60664-1	—	GB12350	2003010401091525	CQC	A-182
3RK15RGN-CW2	3RK15RA-CW2		E64197										
4RK25RGN-CW2	4RK25RA-CW2												
5RK40RGN-CW2	5RK40RA-CW2												
5RK60RGU-CW*	5RK60RA-CW*												

* Models certified under CCC (China Compulsory Certification) System are also available. For details, contact your nearest Oriental Motor sales office.

■Inverter 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	
FE100C	UL 508C CSA C22.2 No.14	E171462	UL	—	—	—	EN 50178	Emission EN 61000-6-4	A-199
FE200C								Immunity EN 61000-6-2	

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

■Torque Motors World K Series





Model		UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification System			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				
2TK3GN-CW2	2TK3A-CW2	UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	E64197	UL		—		EN 60034-1	—	GB12350	2005010401150784	CQC	A-223
3TK6GN-CW2	3TK6A-CW2							EN 60034-5					
4TK10GN-CW2	4TK10A-CW2							EN 60950-1					
5TK20GN-CW2	5TK20A-CW2							EN 60664-1					

■Watertight, Dust-Resistant Motors FPW Series

Model	UL/CSA Standards			EN/IEC Standards			CE Marking		China Compulsory Certification System			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				
FPW425C2-□	UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	E64197	UL		—		EN 60034-1 EN 60034-5 EN 60664-1	—	GB12350	2006010401173413	CQC	A-211
FPW425S2-□										2006010401173412		
FPW540C2-□										2006010401173413		
FPW540S2-□										2006010401173412		
FPW560C2-□										2006010401173413		
FPW560S2-□										2006010401173412		
FPW690C2-□										2006010401173413		
FPW690S2-□										2006010401173412		

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

■Brushless DC Motors AC Input 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	EMC Directive		
									Applicable Standards	Applicable Standards		
BLF230C - 	BLFM230-GFS	BLFD30C2	Motor UL 1004-1 CSA C22.2 No.100	Motor E335369	UL		—		Motor EN 60034-1 EN 60034-5 EN 60950-1 EN 60664-1	Emission EN 61000-6-4	B-16	
BLF230C-A	BLFM230-A	BLFD30C2										
BLF460C - 	BLFM460-GFS	BLFD60C2										
BLF460C-A	BLFM460-A	BLFD60C2										
BLF5120C - 	BLFM5120-GFS	BLFD120C2	Driver UL 508C CSA C22.2 No.14	Driver E171462					Driver EN 50178 EN 60950-1	Immunity EN 61000-6-2		
BLF5120C-A	BLFM5120-A	BLFD120C2										
BLF6200C - 	BLFM6200-GFS	BLFD200C2										
BLF6200C-A	BLFM6200-A	BLFD200C2										




● 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 DC Motors AC Input 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	
BLU220C - 	BLUM220-GFS	BLUD20C	Motor UL 60950-1 CSA C22.2 No.60950-1	Motor E208200	UL		—	Motor EN 60034-1 EN 60034-5 EN 60950-1 EN 60664-1	Emission EN 61000-6-4 Immunity EN 61000-6-2	B-38	
BLU220C-A	BLUM220-A	BLUD20C									
BLU440C - 	BLUM440-GFS	BLUD40C									
BLU440C-A	BLUM440-A	BLUD40C									
BLU590C - 	BLUM590-GFS	BLUD90C	Driver UL 508C CSA C22.2 No.14	Driver E171462				Driver EN 50178 EN 60950-1			
BLU590C-A	BLUM590-A	BLUD90C									

● 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 DC Motors DC Input 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	EMC Directive	
									Applicable Standards	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-56
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.

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 60 mm	AS66▣CE	ASM66▣CE	ASD12A-C	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 Driver E171462	UL	—	—	—	Motor EN 60950-1 EN 60034-1 EN 60034-5 EN 60664-1 Driver EN 60950-1 EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	C-27
Motor Frame Size 60 mm	AS69▣CE	ASM69▣CE	ASD16D-C									C-28
Standard Type Motor Frame Size 85 mm	AS98▣CE	ASM98▣CE	ASD16A-C									
Motor Frame Size 85 mm	AS911ACE	ASM911ACE	ASD20A-C									
Standard Type IP65 Rated Motor Motor Frame Size 60 mm	AS66ACT	ASM66ACT	ASD12A-C									C-29
Motor Frame Size 60 mm	AS69ACT	ASM69ACT	ASD16D-C									C-30
Standard Type IP65 Rated Motor Motor Frame Size 85 mm	AS98ACT	ASM98ACT	ASD16A-C									C-31
Motor Frame Size 85 mm	AS911ACT	ASM911ACT	ASD20A-C									C-32
TH Geared Type Motor Frame Size 60 mm	AS66▣CE-T□	ASM66▣CE-T□	ASD12▣-C									C-33
Motor Frame Size 60 mm	AS98▣CE-T□	ASM98▣CE-T□	ASD16▣-C									C-34
TH Geared Type Motor Frame Size 90 mm	AS98▣CE-T□	ASM98▣CE-T□	ASD16▣-C									C-35
PL Geared Type Motor Frame Size 60 mm	AS66▣CE-P□	ASM66▣CE-P□	ASD12▣-C									C-35
Motor Frame Size 60 mm	AS98▣CE-P□	ASM98▣CE-P□	ASD16▣-C									C-35
PL Geared Type Motor Frame Size 90 mm	AS98▣CE-P□	ASM98▣CE-P□	ASD16▣-C									C-35
PN Geared Type Motor Frame Size 60 mm	AS66▣CE-N□	ASM66▣CE-N□	ASD12▣-C									C-35
Motor Frame Size 60 mm	AS98▣CE-N□	ASM98▣CE-N□	ASD16▣-C									C-35
PN Geared Type Motor Frame Size 90 mm	AS98▣CE-N□	ASM98▣CE-N□	ASD16▣-C									C-35
Harmonic Geared Type Motor Frame Size 60 mm	AS66▣CE-H□	ASM66▣CE-H□	ASD12▣-C									C-35
Motor Frame Size 60 mm	AS98▣CE-H□	ASM98▣CE-H□	ASD16B-C									C-35
Harmonic Geared Type Motor Frame Size 90 mm	AS98▣CE-H□	ASM98▣CE-H□	ASD16B-C									C-35

- *Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C.
- 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*
AC Input **AS Series** Stored Program

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 60 mm	AS66 ■ CEP	ASM66■CE	ASD12A-CP	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 Driver E171462	UL				Motor EN 60950-1 EN 60034-1 EN 60034-5 EN 60664-1 Driver EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	C-27
Motor Frame Size 85 mm	AS69 ■ CEP	ASM69■CE	ASD16D-CP									C-28
Standard Type Motor Frame Size 85 mm	AS98 ■ CEP	ASM98■CE	ASD16A-CP									C-28
Motor Frame Size 85 mm	AS911ACEP	ASM911ACE	ASD20A-CP									C-29
Standard Type IP65 Rated Motor Motor Frame Size 60 mm	AS66ACTP	ASM66ACT	ASD12A-CP									C-30
Motor Frame Size 60 mm	AS69ACTP	ASM69ACT	ASD16D-CP									C-33
Standard Type IP65 Rated Motor Motor Frame Size 85 mm	AS98ACTP	ASM98ACT	ASD16A-CP									C-34
Motor Frame Size 85 mm	AS911ACTP	ASM911ACT	ASD20A-CP									C-35
TH Geared Type Motor Frame Size 60 mm	AS66 ■ CEP-T □	ASM66■CE-T□	ASD12■-CP									C-35
TH Geared Type Motor Frame Size 90 mm	AS98 ■ CEP-T □	ASM98■CE-T□	ASD16■-CP									C-35
PN Geared Type Motor Frame Size 60 mm	AS66 ■ CEP-N □	ASM66■CE-N□	ASD12■-CP									C-35
Motor Frame Size 90 mm	AS98 ■ CEP-N □	ASM98■CE-N□	ASD16■-CP									C-35
Harmonic Geared Type Motor Frame Size 60 mm	AS66 ■ CEP-H □	ASM66■CE-H□	ASD12■-CP									C-35
Harmonic Geared Type Motor Frame Size 90 mm	AS98 ■ CEP-H □	ASM98■CE-H□	ASD16B-CP									C-35































































- * Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 40°C.
- 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 Applicable Standards	EMC Directive Applicable Standards	
Motor Frame Size 28 mm	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-63
	ASC34AK-T □	ASM34AK-T□										C-64
	ASC34AK-N □	ASM34AK-N□										C-67
	ASC34AK-H □	ASM34AK-H□										C-70
	ASC36AK	ASM36AK										C-63
Motor Frame Size 42 mm	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						C-65
	ASC46 ■ K-T □	ASM46■K-T□										C-68
	ASC46 ■ K-N □	ASM46■K-N□										C-70
	ASC46 ■ K-H □	ASM46■K-H□										C-63
Motor Frame Size 60 mm	ASC66 ■ K	ASM66■K	ASD36■-K									C-66
	ASC66 ■ K-T □	ASM66■K-T□										C-69
	ASC66 ■ K-N □	ASM66■K-N□										C-70
	ASC66 ■ K-H □	ASM66■K-H□										C-70

- * Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 40°C.
- 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.

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 60 mm	RK564  CE	PK564  E	RKD514L-C	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 Driver E171462	UL	—	—	—	Motor EN 60950-1 EN 60034-1 EN 60034-5 EN 60664-1 Driver EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	C-89						
	RK566  CE	PK566  E	RKD514L-C															
	RK569  CE	PK569  E	RKD514L-C															
Standard Type Motor Frame Size 85 mm	RK596  CE	PK596  E	RKD514H-C									C-91						
	RK599  CE	PK599  E	RKD514H-C															
	RK5913  CE	PK5913  E	RKD514H-C															
Standard Type with Electromagnetic Brake Motor Frame Size 60 mm	RK564AMCE	PK564AEM	RKD514LM-C										C-90					
	RK566AMCE	PK566AEM	RKD514LM-C															
	RK569AMCE	PK569AEM	RKD514LM-C															
Standard Type with Electromagnetic Brake Motor Frame Size 85 mm	RK596AMCE	PK596AEM	RKD514HM-C											C-92				
	RK599AMCE	PK599AEM	RKD514HM-C															
	RK5913AMCE	PK5913AEM	RKD514HM-C															
Standard Type IP65 Rated Motor Motor Frame Size 60 mm	RK564ACT	PK564AT	RKD514L-C												C-93			
	RK566ACT	PK566AT	RKD514L-C															
	RK569ACT	PK569AT	RKD514L-C															
Standard Type IP65 Rated Motor Motor Frame Size 85 mm	RK596ACT	PK596AT	RKD514H-C													C-94		
	RK599ACT	PK599AT	RKD514H-C															
	RK5913ACT	PK5913AT	RKD514H-C															
TH Geared Type Motor Frame Size 60 mm	RK564  CE-T 	PK564  E-T 	RKD514L-C														C-95	
TH Geared Type Motor Frame Size 90 mm	RK596  CE-T 	PK596  E-T  PK596  E1-T 	RKD514H-C															C-96
	PL Geared Type Motor Frame Size 60 mm	RK566  CE-P 	PK566  E-P 															
PL Geared Type Motor Frame Size 60 mm	RK564  CE-P 	PK564  E-P 	RKD514L-C															C-98
PL Geared Type Motor Frame Size 90 mm	RK599  CE-P 	PK599  E-P 	RKD514H-C															
	RK596  CE-P 	PK596  E-P 	RKD514H-C															C-100
PN Geared Type Motor Frame Size 60 mm	RK566  CE-N 	PK566  E-N 	RKD514L-C															
	RK564  CE-N 	PK564  E-N 	RKD514L-C															C-102
PN Geared Type Motor Frame Size 90 mm	RK599  CE-N 	PK599  E-N 	RKD514H-C															
	RK596  CE-N 	PK596  E-N 	RKD514H-C															C-104
Harmonic Geared Type Motor Frame Size 60 mm	RK564  CE-H 	PK564  E-H  S	RKD514L-C															
Harmonic Geared Type Motor Frame Size 90 mm	RK596  CE-H 	PK596  E1-H 	RKD514H-C															C-98

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

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.

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	CRK523PM	PK523PM	CRD5103P	Motor UL 60950-1 CSA C22.2 No.60950-1 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor E208200 Driver E208200	UL						C-120
	CRK524PM	PK524PM	CRD5103P									
	CRK525PM	PK525PM	CRD5103P									
High-Resolution Type Motor Frame Size 42 mm	CRK544PM	PK544PM	CRD5107P	Motor UL 60950-1 CSA C22.2 No.60950-1 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor E208200 Driver E208200	UL						C-121
	CRK546PM	PK546PM	CRD5107P									
High-Resolution Type Motor Frame Size 60 mm	CRK564PM	PK564PM	CRD5114P	Motor UL 60950-1 CSA C22.2 No.60950-1 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor E208200 Driver E208200	UL						C-122
	CRK566PM	PK566PM	CRD5114P									
	CRK569PM	PK569PM	CRD5114P									
High-Torque Type Motor Frame Size 20 mm	CRK513P	PK513P	CRD5103P	Motor UL 60950-1 CSA C22.2 No.60950-1 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor E208200 Driver E208200	UL						C-123
High-Torque Type Motor Frame Size 28 mm	CRK523P	PK523P	CRD5103P									
High-Torque Type Motor Frame Size 42 mm	CRK525P	PK525P	CRD5103P									
Standard Type Motor Frame Size 42 mm	CRK544P	PK544P	CRD5107P	Motor UL 1004 UL 2111 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor E64199 Driver E208200	UL						C-124
	CRK543P	PK543P	CRD5107P									
	CRK545P	PK545P	CRD5107P									
Standard Type Motor Frame Size 60 mm	CRK564P	PK564P	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	Motor E64199 Driver E208200	UL						C-125
	CRK566P	PK566P	CRD5114P									
	CRK569P	PK569P	CRD5114P									
TH Geared Type Motor Frame Size 28 mm	CRK523P	PK523P	CRD5103P	Motor UL 60950-1 CSA C22.2 No.60950-1 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor E208200 Driver E208200	UL				Emission EN 61000-6-4 Immunity EN 61000-6-2		C-124
TH Geared Type Motor Frame Size 42 mm	CRK543P	PK543P	CRD5107P	Motor UL 1004 UL 2111 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor E64199 Driver E208200	UL						C-125
TH Geared Type Motor Frame Size 60 mm	CRK564P	PK564P	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	Motor E64199 Driver E208200	UL						C-126
PL Geared Type Motor Frame Size 42 mm	CRK545P	PK545P	CRD5107P	Motor UL 1004 UL 2111 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor E64199 Driver E208200	UL						C-127
	CRK543P	PK543P	CRD5107P									
PL Geared Type Motor Frame Size 60 mm	CRK566P	PK566P	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	Motor E64199 Driver E208200	UL						C-128
	CRK564P	PK564P	CRD5114P									

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.

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 28 mm	CRK523P ■ P-N □	PK523P■-N□	CRD5103P	Motor UL 60950-1 CSA C22.2 No.60950-1 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor E208200 Driver E208200	UL					C-129	
PN Geared Type Motor Frame Size 42 mm	CRK544 ■ P-N □	PK544■W-N□	CRD5107P	Motor UL 1004 UL 2111 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor E64199 Driver E208200							
PN Geared Type Motor Frame Size 60 mm	CRK566 ■ P-N □	PK566■W-N□	CRD5114P	Motor UL 1004 UL 2111 CSA C22.2 No.77 CSA C22.2 No.100								
	CRK564 ■ P-N □	PK564■W-N□	CRD5114P	Driver UL 60950-1 CSA C22.2 No.60950-1								
Harmonic Geared Type Motor Frame Size 20 mm	CRK513P ■ P-H □	PK513P■-H□S	CRD5103P	Motor UL 60950-1 CSA C22.2 No.60950-1 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor E208200 Driver E208200							C-130
Harmonic Geared Type Motor Frame Size 42 mm	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 Driver E208200							
Harmonic Geared Type Motor Frame Size 60 mm	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								
											C-131	

- 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 Motors PK Series Standard Type IP65 Rated Motor

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	EMC Directive	
								Applicable Standards	Applicable Standards	
Motor Frame Size 56.4 mm	PK264DAT	UL 1004 UL 2111 CSA C22.2 No.100 CSA C22.2 No.77	E64199	UL				EN 60950-1 EN 60034-1 EN 60034-5 EN 60664-1		C-222
	PK266DAT									
	PK268DAT									
Motor Frame Size 85 mm	PK296EAT									C-236
	PK299EAT									
	PK2913EAT									

■Motorized Linear Slides EZSII 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	—	—	—	—	—	—	—	Emmision EN 61000-6-4	D-20						
	EZS3E□-K EZS3E□M-K	EZSM3E□K EZSM3E□MK	ESMC-K2									D-24						
	EZS4D□-K EZS4D□M-K	EZSM4D□K EZSM4D□MK	ESMC-K2															
	EZS4E□-K EZS4E□M-K	EZSM4E□K EZSM4E□MK	ESMC-K2									D-28						
	EZS6D□-K EZS6D□M-K	EZSM6D□K EZSM6D□MK	ESMC-K2															
	EZS6E□-K EZS6E□M-K	EZSM6E□K EZSM6E□MK	ESMC-K2															
Single-Phase 200-230 VAC	EZS3D□-C EZS3D□M-C	EZSM3D□C EZSM3D□MC	ESMC-C2							—	—	—	—	—	—	Linear Slides EN 60950-1 EN 60034-1 EN 60034-5 EN 60664-1 Controller EN 50178	Immunity EN 61000-6-2	D-22
	EZS3E□-C EZS3E□M-C	EZSM3E□C EZSM3E□MC	ESMC-C2															D-26
	EZS4D□-C EZS4D□M-C	EZSM4D□C EZSM4D□MC	ESMC-C2															
	EZS4E□-C EZS4E□M-C	EZSM4E□C EZSM4E□MC	ESMC-C2															D-30
	EZS6D□-C EZS6D□M-C	EZSM6D□C EZSM6D□MC	ESMC-C2															
	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

■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	EMC Directive
											Applicable Standards	Applicable Standards
Standard Type Frame Size 20 mm	DRL20PB1-02G	DRL20PB1-02	CRD5103P	SM20P	Motor UL 60950 CSA C22.2 No.60950 Driver UL 60950-1 CSA C22.2 No.60950-1	Motor, Driver E208200	UL	—	—	—	Emission EN 61000-6-4 Immunity EN 61000-6-2	D-70
	DRL20PB1-02NG	DRL20PB1-02N	CRD5103P	SM20PH								
	DRL20PB1G-02G	DRL20PB1G-02	CRD5103P	SM20PG								
	DRL20PB1G-02NG	DRL20PB1G-02N	CRD5103P	SM20PGH								
Standard Type Frame Size 28 mm	DRL28P□1-03G	DRL28P□1-03	CRD5107P	SM28P								D-70 or D-71
	DRL28P□1-06G	DRL28P□1-06	CRD5107P	SM28P								
	DRL28P□1-03NG	DRL28P□1-03N	CRD5107P	SM28PH								
	DRL28P□1G-03G	DRL28P□1G-03	CRD5107P	SM28PG								
	DRL28P□1G-03NG	DRL28P□1G-03N	CRD5107P	SM28PGH								
	DRL42P□2-04G	DRL42P□2-04	CRD5107P	SM42P								D-70 or D-71
Standard Type Frame Size 42 mm	DRL42P□2-10G	DRL42P□2-10	CRD5107P	SM42P								
	DRL42P□2-04MG	DRL42P□2-04M	CRD5107P	SM42PM								D-70 or D-71
	DRL42P□2-04NG	DRL42P□2-04N	CRD5107P	SM42PH								
	DRL42P□2G-04G	DRL42P□2G-04	CRD5107P	SM42PG								
	DRL42P□2G-04MG	DRL42P□2G-04M	CRD5107P	SM42PGM								
	DRL42P□2G-04NG	DRL42P□2G-04N	CRD5107P	SM42PGH								
Standard Type Frame Size 60 mm	DRL60P□4-05G	DRL60P□4-05	CRD5114P	SM60P								D-70 or D-71
	DRL60P□4-10G	DRL60P□4-10	CRD5114P	SM60P								
	DRL60P□4-05MG	DRL60P□4-05M	CRD5114P	SM60PM								D-70 or D-71
	DRL60P□4-05NG	DRL60P□4-05N	CRD5114P	SM60PH								
	DRL60P□4G-05G	DRL60P□4G-05	CRD5114P	SM60PG								
	DRL60P□4G-05MG	DRL60P□4G-05M	CRD5114P	SM60PGM								
	DRL60P□4G-05NG	DRL60P□4G-05N	CRD5114P	SM60PGH								

● 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.

Rack and Pinion Systems LAS 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 Thrust Force Type Frame Size 60 mm	LAS2B90AW-□	LAM2B90AW-□	LSD20A-W	ASM66AAE-L	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 Driver E171462	UL				Motor EN 60950-1 EN 60034-1 EN 60034-5 EN 60664-1 Driver EN 60950-1 EN 50178	Emission EN 61000-6-4 Immunity EN 61000-6-2	D-102
	LAS2F90AW-□	LAM2F90AW-□	LSD20A-W	ASM66AAE-L									
	LAS2B90MW-□	LAM2B90MW-□	LSD20A-W	ASM66MAE-L									
	LAS2F90MW-□	LAM2F90MW-□	LSD20A-W	ASM66MAE-L									
Standard Type Frame Size 60 mm	LAS2B500AW-□	LAM2B500AW-□	LSD20A-W	ASM66AAE-L									D-101
	LAS2F500AW-□	LAM2F500AW-□	LSD20A-W	ASM66AAE-L									
	LAS2B500MW-□	LAM2B500MW-□	LSD20A-W	ASM66MAE-L									
	LAS2F500MW-□	LAM2F500MW-□	LSD20A-W	ASM66MAE-L									
High Thrust Force Type Frame Size 80 mm	LAS4B40AW-□	LAM4B40AW-□	LSD20A-W	ASM66AAE-L3									D-102
	LAS4F40AW-□	LAM4F40AW-□	LSD20A-W	ASM66AAE-L3									
	LAS4B40MW-□	LAM4B40MW-□	LSD20A-W	ASM66MAE-L3									
	LAS4F40MW-□	LAM4F40MW-□	LSD20A-W	ASM66MAE-L3									
Standard Type Frame Size 80 mm	LAS4B500AW-□	LAM4B500AW-□	LSD20B-W	ASM66AAE-L2									D-101
	LAS4F500AW-□	LAM4F500AW-□	LSD20B-W	ASM66AAE-L2									
	LAS4B500MW-□	LAM4B500MW-□	LSD20B-W	ASM66MAE-L2									
	LAS4F500MW-□	LAM4F500MW-□	LSD20B-W	ASM66MAE-L2									

* Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C.
Enter the stroke 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

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	DG60-AS□K	DGM60-AS□K	ASD10A-K	ASM34□K-D	Motor UL 60950 CSA C22.2 No.60950 Driver UL 1950 CSA C22.2 No.950 UL 508C *1 CSA C22.2 No.14	Motor E208200 Driver E208200 E171462	UL				—	Emission EN 61000-6-4	D-135
Frame Size 130 mm	DG130R-AS□C	DGM130R-AS□C	ASD12A-C	ASM66□C-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						Immunity EN 61000-6-2	

*1 Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 40°C.
*2 Recognized by UL in accordance with UL 508C at Maximum Surrounding Air Temperature 50°C.
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.

■Axial Flow Fans AC Input MRS 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	EMC Directive	
							Applicable Standards	Applicable Standards	
MRS25-B	UL 507 CSA C22.2 No.113	E58377	UL	—	—	—	EN 60950-1	—	E-50
MRS25-D									
MRS25-BM									
MRS25-DM									
MRS20-BM	UL 507 CSA C22.2 No.113	E58377/1627047	UL/CSA	EN 60950-1	5867	VDE			E-52
MRS20-EM									
MRS20-BUL									
MRS20-E									
MRS18-BTM	UL 507 CSA C22.2 No.113	E58377/1389794	UL/CSA	EN 60950-1	5867	VDE			E-54
MRS18-ETM									
MRS18-BUL									
MRS18-E									
MRS16-BTM	UL 507 CSA C22.2 No.113	E58377/1627035	UL/CSA	EN 60950-1	5867	VDE			E-58
MRS16-ETM									
MRS16-BUL									
MRS16-E									

■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 Applicable Standards	EMC Directive Applicable Standards	Certificate No.	Certification Body		
MU1428S-51N	UL 507 CSA C22.2 No.113	E58377/1282885	UL/CSA	EN 60950-1	5870	VDE	EN 60950-1	—	0018-91002-002 0018-91002-003	JET	E-60	
MU1238A-21BN		E58377/1282906							0018-91002-001		E-62	
MU1238A-51BN		E58377/1274852							0018-91002-002 0018-91002-003			
MU1225S-21N		E58377/1282906							0018-91002-001		E-64	
MU1225S-51N									0018-91002-002 0018-91002-003			
MU1025S-51N		E58377/1282885							0018-91002-002 0018-91002-003		E-66	
MU925S-21N		E58377/1282906							0018-91002-001		E-68	
MU925S-51N									0018-91002-002 0018-91002-003			
MU825S-23N		E58377/1274852								—	—	E-70
MU825S-53N												

●MU Series display the PSE mark (PSE) 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

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				
MDE1225-12L	UL 507 CSA C22.2 No.113	E58377	UL	EN 60950-1	151173	DEMKO	—	Emission EN 61000-6-4 Immunity EN 61000-6-2	E-72			
MDE1225-24L									E-74			
MDS1751-24									E-75			
MDS1451-24									EN 60950-1	151173	DEMKO	E-76
MDS1451-24L												E-77
MDS1225-12												E-78
MDS1225-24												E-79
MDS1225-12M												E-80
MDS1225-24M												E-81
MD925A-12												
MD925A-24												
MD925A-12L												
MD925A-24L												
MD825B-12												
MD825B-24												
MD825B-12L												
MD825B-24L												
MD625B-12												
MD625B-24												
MD625B-12L												
MD625B-24L												
MDS510-12												
MDS510-24												
MDS510-12L												
MDS510-24L												
MDS410-12												
MDS410-24												
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	EN60950-1	6755	VDE	EN 60950-1	—	E-86	
MB1665-D									E-88	
MB1255-B									E-90	
MB1255-D					135714	DEMKO			E-92	
MB1040-B									E-94	
MB1040-D					6755	VDE			E-96	
MB840-B										
MB840-D										
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-DC	UL 507 CSA C22.2 No.113	E58377	UL	—	—	—	EN 60950-1	—	E-108
MF930B-DC									E-110
MF915-DC									
MF915B-DC									