

# List of Safety Standard Approved Products

The file No. in the table indicates the registration number of the product. Last updated May 2005

## World K Series Induction Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft				Certification Body	Licence No. or Certificate No.	
<b>2IK6GN-AW</b>	<b>2IK6A-AW</b>	Impedance Protection	E64199	IP20	VDE	114919	A-20
<b>2IK6GN-AWT</b>	<b>2IK6A-AWT</b>	Impedance Protection	E64199	IP54 *1	VDE	114919	A-20
<b>2IK6GN-CW</b>	<b>2IK6A-CW</b>	Impedance Protection	E64199	IP20	VDE	114919	A-20
<b>2IK6GN-CWT</b>	<b>2IK6A-CWT</b>	Impedance Protection	E64199	IP54 *1	VDE	114919	A-20
<b>2IK6GN-SW</b>	<b>2IK6A-SW</b>	Impedance Protection	E64199	IP20	VDE	114919	A-20
<b>2IK6GN-SWT</b>	<b>2IK6A-SWT</b>	Impedance Protection	E64199	IP54 *1	VDE	114919	A-20
<b>3IK15GN-AW</b>	<b>3IK15A-AW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-24
<b>3IK15GN-CW</b>	<b>3IK15A-CW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-24
<b>4IK25GN-AW</b>	<b>4IK25A-AW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-28
<b>4IK25GN-AWT</b>	<b>4IK25A-AWT</b>	Thermal Protector	E64197	IP54(IP40 *2)	VDE	6751	A-28
<b>4IK25GN-CW</b>	<b>4IK25A-CW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-28
<b>4IK25GN-CWT</b>	<b>4IK25A-CWT</b>	Thermal Protector	E64197	IP54(IP40 *2)	VDE	6751	A-28
<b>4IK25GN-SW</b>	<b>4IK25A-SW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-28
<b>4IK25GN-SWT</b>	<b>4IK25A-SWT</b>	Thermal Protector	E64197	IP54(IP40 *2)	VDE	6751	A-28
<b>5IK40GN-AW</b>	<b>5IK40A-AW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-34
<b>5IK40GN-AWT</b>	<b>5IK40A-AWT</b>	Thermal Protector	E64197	IP54(IP40 *2)	VDE	6751	A-34
<b>5IK40GN-CW</b>	<b>5IK40A-CW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-34
<b>5IK40GN-CWT</b>	<b>5IK40A-CWT</b>	Thermal Protector	E64197	IP54(IP40 *2)	VDE	6751	A-34
<b>5IK40GN-SW</b>	<b>5IK40A-SW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-34
<b>5IK40GN-SWT</b>	<b>5IK40A-SWT</b>	Thermal Protector	E64197	IP54(IP40 *2)	VDE	6751	A-34
<b>5IK60GN-AW</b>	<b>5IK60A-AW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-40
<b>5IK60GN-AWT</b>	<b>5IK60A-AWT</b>	Thermal Protector	E64197	IP44(IP40 *2)	VDE	6751	A-40
<b>5IK60GN-CW</b>	<b>5IK60A-CW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-40
<b>5IK60GN-CWT</b>	<b>5IK60A-CWT</b>	Thermal Protector	E64197	IP44(IP40 *2)	VDE	6751	A-40
<b>5IK60GN-SW</b>	<b>5IK60A-SW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-40
<b>5IK60GN-SWT</b>	<b>5IK60A-SWT</b>	Thermal Protector	E64197	IP44(IP40 *2)	VDE	6751	A-40
<b>5IK90GN-AW</b>	<b>5IK90A-AW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-47
<b>5IK90GN-AWT</b>	<b>5IK90A-AWT</b>	Thermal Protector	E64197	IP44(IP40 *2)	VDE	6751	A-47
<b>5IK90GN-CW</b>	<b>5IK90A-CW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-47
<b>5IK90GN-CWT</b>	<b>5IK90A-CWT</b>	Thermal Protector	E64197	IP44(IP40 *2)	VDE	6751	A-47
<b>5IK90GN-SW</b>	<b>5IK90A-SW</b>	Thermal Protector	E64197	IP20	DEMKO	138642	A-47
<b>5IK90GN-SWT</b>	<b>5IK90A-SWT</b>	Thermal Protector	E64197	IP44(IP40 *2)	DEMKO	138642	A-47

\*1 When using  $\phi 0.33$  in. ( $\phi 8.5$  mm) cables, IP grade is 54; otherwise, IP40 is applied, except for the mounting surface of the round shaft motor. \*2 Round shaft type.

## World K Series Reversible Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft				Certification Body	Licence No. or Certificate No.	
<b>2RK6GN-AW</b>	<b>2RK6A-AW</b>	Impedance Protection	E64199	IP20	VDE	114919	A-74
<b>2RK6GN-AWT</b>	<b>2RK6A-AWT</b>	Impedance Protection	E64199	IP40	VDE	114919	A-74
<b>2RK6GN-CW</b>	<b>2RK6A-CW</b>	Impedance Protection	E64199	IP20	VDE	114919	A-74
<b>2RK6GN-CWT</b>	<b>2RK6A-CWT</b>	Impedance Protection	E64199	IP40	VDE	114919	A-74
<b>3RK15GN-AW</b>	<b>3RK15A-AW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-78
<b>3RK15GN-CW</b>	<b>3RK15A-CW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-78
<b>4RK25GN-AW</b>	<b>4RK25A-AW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-82
<b>4RK25GN-AWT</b>	<b>4RK25A-AWT</b>	Thermal Protector	E64197	IP40	VDE	6751	A-82
<b>4RK25GN-CW</b>	<b>4RK25A-CW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-82
<b>4RK25GN-CWT</b>	<b>4RK25A-CWT</b>	Thermal Protector	E64197	IP40	VDE	6751	A-82
<b>5RK40GN-AW</b>	<b>5RK40A-AW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-87
<b>5RK40GN-AWT</b>	<b>5RK40A-AWT</b>	Thermal Protector	E64197	IP40	VDE	6751	A-87
<b>5RK40GN-CW</b>	<b>5RK40A-CW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-87
<b>5RK40GN-CWT</b>	<b>5RK40A-CWT</b>	Thermal Protector	E64197	IP40	VDE	6751	A-87
<b>5RK60GN-AW</b>	<b>5RK60A-AW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-92
<b>5RK60GN-AWT</b>	<b>5RK60A-AWT</b>	Thermal Protector	E64197	IP40	VDE	6751	A-92
<b>5RK60GN-CW</b>	<b>5RK60A-CW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-92
<b>5RK60GN-CWT</b>	<b>5RK60A-CWT</b>	Thermal Protector	E64197	IP40	VDE	6751	A-92
<b>5RK90GN-AW</b>	<b>5RK90A-AW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-97
<b>5RK90GN-AWT</b>	<b>5RK90A-AWT</b>	Thermal Protector	E64197	IP40	VDE	6751	A-97
<b>5RK90GN-CW</b>	<b>5RK90A-CW</b>	Thermal Protector	E64197	IP20	VDE	6751	A-97
<b>5RK90GN-CWT</b>	<b>5RK90A-CWT</b>	Thermal Protector	E64197	IP40	VDE	6751	A-97

## ■ World K Series Electromagnetic Brake Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft				Certification Body	Licence No. or Certificate No.	
<b>2RK6GN-AWM</b>	<b>2RK6A-AWM</b>	Impedance Protection	E64199	IP20	VDE	114919	A-132
<b>2RK6GN-CWM</b>	<b>2RK6A-CWM</b>	Impedance Protection	E64199	IP20	VDE	114919	A-132
<b>2IK6GN-SWM</b>	<b>2IK6A-SWM</b>	Impedance Protection	E64199	IP20	VDE	114919	A-132
<b>3RK15GN-AWM</b>	<b>3RK15A-AWM</b>	Thermal Protector	E64197	IP20	VDE	6751	A-137
<b>3RK15GN-CWM</b>	<b>3RK15A-CWM</b>	Thermal Protector	E64197	IP20	VDE	6751	A-137
<b>4RK25GN-AWM</b>	<b>4RK25A-AWM</b>	Thermal Protector	E64197	IP20	VDE	6751	A-142
<b>4RK25GN-CWM</b>	<b>4RK25A-CWM</b>	Thermal Protector	E64197	IP20	VDE	6751	A-142
<b>4IK25GN-SWM</b>	<b>4IK25A-SWM</b>	Thermal Protector	E64197	IP20	VDE	6751	A-142
<b>5RK40GN-AWM</b>	<b>5RK40A-AWM</b>	Thermal Protector	E64197	IP20	VDE	6751	A-147
<b>5RK40GN-CWM</b>	<b>5RK40A-CWM</b>	Thermal Protector	E64197	IP20	VDE	6751	A-147
<b>5IK40GN-SWM</b>	<b>5IK40A-SWM</b>	Thermal Protector	E64197	IP20	VDE	6751	A-147
<b>5RK60GU-AWM</b>	<b>5RK60A-AWM</b>	Thermal Protector	E64197	IP40	VDE	6751	A-152
<b>5RK60GU-CWM</b>	<b>5RK60A-CWM</b>	Thermal Protector	E64197	IP40	VDE	6751	A-152
<b>5IK60GU-SWM</b>	<b>5IK60A-SWM</b>	Thermal Protector	E64197	IP40	VDE	6751	A-152
<b>5RK90GU-AWM</b>	<b>5RK90A-AWM</b>	Thermal Protector	E64197	IP40	VDE	6751	A-157
<b>5RK90GU-CWM</b>	<b>5RK90A-CWM</b>	Thermal Protector	E64197	IP40	VDE	6751	A-157
<b>5IK90GU-SWM</b>	<b>5IK90A-SWM</b>	Thermal Protector	E64197	IP40	DEMKO	138642	A-157

## ■ V Series Induction Motors

Model	Motor Model	Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
					Certification Body	Licence No.	
<b>VHI206A-□U</b>	VHI206A-GV	Impedance Protection	E64199	IP20	VDE	114919	A-20
<b>VHI206C-□E</b>	VHI206C-GV	Impedance Protection	E64199	IP20	VDE	114919	A-20
<b>VHI315A-□U</b>	VHI315A-GV	Thermal Protector	E64197	IP20	VDE	6751	A-24
<b>VHI315C-□E</b>	VHI315C-GV	Thermal Protector	E64197	IP20	VDE	6751	A-24
<b>VHI425A-□U</b>	VHI425A-GV	Thermal Protector	E64197	IP20	VDE	6751	A-28
<b>VHI425C-□E</b>	VHI425C-GV	Thermal Protector	E64197	IP20	VDE	6751	A-28
<b>VHI425S-□</b>	VHI425S-GV	Thermal Protector	E64197	IP20	VDE	6751	A-28
<b>VHI425AT-□U</b>	VHI425AT-GV	Thermal Protector	E64197	IP54	VDE	6751	A-28
<b>VHI425CT-□E</b>	VHI425CT-GV	Thermal Protector	E64197	IP54	VDE	6751	A-28
<b>VHI425ST-□</b>	VHI425ST-GV	Thermal Protector	E64197	IP54	VDE	6751	A-28
<b>VHI540A-□U</b>	VHI540A-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-34
<b>VHI540C-□E</b>	VHI540C-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-34
<b>VHI540S-□</b>	VHI540S-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-34
<b>VHI540AT-□U</b>	VHI540AT-GVH	Thermal Protector	E64197	IP54	VDE	6751	A-34
<b>VHI540CT-□E</b>	VHI540CT-GVH	Thermal Protector	E64197	IP54	VDE	6751	A-34
<b>VHI540ST-□</b>	VHI540ST-GVH	Thermal Protector	E64197	IP54	VDE	6751	A-34
<b>VHI560A-□U</b>	VHI560A-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-40
<b>VHI560C-□E</b>	VHI560C-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-40
<b>VHI560S-□</b>	VHI560S-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-40
<b>VHI560AT-□U</b>	VHI560AT-GVH	Thermal Protector	E64197	IP44	VDE	6751	A-40
<b>VHI560CT-□E</b>	VHI560CT-GVH	Thermal Protector	E64197	IP44	VDE	6751	A-40
<b>VHI560ST-□</b>	VHI560ST-GVH	Thermal Protector	E64197	IP44	VDE	6751	A-40
<b>VHI590A-□U</b>	VHI590A-GVR	Thermal Protector	E64197	IP20	—	—	A-47
<b>VHI590C-□E</b>	VHI590C-GVR	Thermal Protector	E64197	IP20	—	—	A-47
<b>VHI590S-□</b>	VHI590S-GVR	Thermal Protector	E64197	IP20	—	—	A-47
<b>VHI590AT-□U</b>	VHI590AT-GVR	Thermal Protector	E64197	IP44	—	—	A-47
<b>VHI590CT-□E</b>	VHI590CT-GVR	Thermal Protector	E64197	IP44	—	—	A-47
<b>VHI590ST-□</b>	VHI590ST-GVR	Thermal Protector	E64197	IP44	—	—	A-47

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

● **VHI590** type conforms to EN Standards.

## ■ V Series Reversible Motors

Model	Motor Model	Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
					Certification Body	Licence No.	
VHR206A-□U	VHR206A-GV	Impedance Protection	E64199	IP20	VDE	114919	A-74
VHR206C-□E	VHR206C-GV	Impedance Protection	E64199	IP20	VDE	114919	A-74
VHR315A-□U	VHR315A-GV	Thermal Protector	E64197	IP20	VDE	6751	A-78
VHR315C-□E	VHR315C-GV	Thermal Protector	E64197	IP20	VDE	6751	A-78
VHR425A-□U	VHR425A-GV	Thermal Protector	E64197	IP20	VDE	6751	A-82
VHR425C-□E	VHR425C-GV	Thermal Protector	E64197	IP20	VDE	6751	A-82
VHR425AT-□U	VHR425AT-GV	Thermal Protector	E64197	IP40	VDE	6751	A-82
VHR425CT-□E	VHR425CT-GV	Thermal Protector	E64197	IP40	VDE	6751	A-82
VHR540A-□U	VHR540A-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-87
VHR540C-□E	VHR540C-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-87
VHR540AT-□U	VHR540AT-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-87
VHR540CT-□E	VHR540CT-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-87
VHR560A-□U	VHR560A-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-92
VHR560C-□E	VHR560C-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-92
VHR560AT-□U	VHR560AT-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-92
VHR560CT-□E	VHR560CT-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-92
VHR590A-□U	VHR590A-GVR	Thermal Protector	E64197	IP20	—	—	A-97
VHR590C-□E	VHR590C-GVR	Thermal Protector	E64197	IP20	—	—	A-97
VHR590AT-□U	VHR590AT-GVR	Thermal Protector	E64197	IP40	—	—	A-97
VHR590CT-□E	VHR590CT-GVR	Thermal Protector	E64197	IP40	—	—	A-97

- Enter the gear ratio in the box (□) within the model name.
- VHR590 type conforms to EN Standards.

## ■ V Series Electromagnetic Brake Motors

Model	Motor Model	Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
					Certification Body	Licence No.	
VHR206AM-□U	VHR206AM-GV	Impedance Protection	E64199	IP20	VDE	114919	A-132
VHR206CM-□E	VHR206CM-GV	Impedance Protection	E64199	IP20	VDE	114919	A-132
VHR315AM-□U	VHR315AM-GV	Thermal Protector	E64197	IP20	VDE	6751	A-137
VHR315CM-□E	VHR315CM-GV	Thermal Protector	E64197	IP20	VDE	6751	A-137
VHR425AM-□U	VHR425AM-GV	Thermal Protector	E64197	IP20	VDE	6751	A-142
VHR425CM-□E	VHR425CM-GV	Thermal Protector	E64197	IP20	VDE	6751	A-142
VHI425SM-□	VHI425SM-GV	Thermal Protector	E64197	IP20	VDE	6751	A-142
VHR540AM-□U	VHR540AM-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-147
VHR540CM-□E	VHR540CM-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-147
VHI540SM-□	VHI540SM-GVH	Thermal Protector	E64197	IP20	VDE	6751	A-147
VHR560AM-□U	VHR560AM-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-152
VHR560CM-□E	VHR560CM-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-152
VHI560SM-□	VHI560SM-GVH	Thermal Protector	E64197	IP40	VDE	6751	A-152
VHR590AM-□U	VHR590AM-GVR	Thermal Protector	E64197	IP40	—	—	A-157
VHR590CM-□E	VHR590CM-GVR	Thermal Protector	E64197	IP40	—	—	A-157
VHI590SM-□	VHI590SM-GVR	Thermal Protector	E64197	IP40	—	—	A-157

- Enter the gear ratio in the box (□) within the model name.
- VHR590 type conforms to EN Standards.

## ■ BH Series Induction Motors

Model		UL File No. Motor	Degree of Protection	Page
Model	Motor Model			
BHI62F-□■	BHI62F-G2	E64197	IP40	A-54
BHI62FT-□■	BHI62FT-G2	E64197	IP54	A-54
BHI62FT-A	—	E64197	IP54 *	A-54
BHI62F-A	—	E64197	IP40	A-54
BHI62E-□■	BHI62E-G2	E64197	IP40	A-54
BHI62ET-□■	BHI62ET-G2	E64197	IP54	A-54
BHI62ET-A	—	E64197	IP54 *	A-54
BHI62E-A	—	E64197	IP40	A-54
BHI62ST-□■	BHI62ST-G2	E64197	IP54	A-54
BHI62ST-A	—	E64197	IP54 *	A-54

\* Except for the mounting surface.

- Enter the gear ratio in the box (□) within the model name.
- Enter the shaft type "RH" or "RA" in the box (■) within the model name. (Right-Angle Shaft Type Only)

## BH Series Electromagnetic Brake Motors

Model		UL File No. Motor	Degree of Protection	Page
Model	Motor Model			
<b>BHI62FMT-□■</b>	BHI62FMT-G2	E64197	IP54	A-163
<b>BHI62FMT-A</b>	—	E64197	IP54 *	A-163
<b>BHI62EMT-□■</b>	BHI62EMT-G2	E64197	IP54	A-163
<b>BHI62EMT-A</b>	—	E64197	IP54 *	A-163
<b>BHI62SMT-□■</b>	BHI62SMT-G2	E64197	IP54	A-163
<b>BHI62SMT-A</b>	—	E64197	IP54 *	A-163

\* Except for the mounting surface.

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

● Enter the shaft type "RH" or "RA" in the box (■) within the model name. (Right-Angle Shaft Type Only)

## Clutch and Brake Motors

Model	Motor Model	Overheating Protection Device	UL File No. Motor	Degree of Protection	Page
<b>CB1540-701WU</b>	5IK40GN-AW-CB1	Thermal Protector	E64197	IP20	A-171
<b>CB1560-801WU</b>	5IK60GU-AW-CB1	Thermal Protector	E64197	IP20	A-171
<b>CB1590-801WU</b>	5IK90GU-AW-CB1	Thermal Protector	E64197	IP20	A-171

● The clutch and brake unit is not UL recognized.

## K Series Conduit Box Type

Model		Overheating Protection Device	UL File No.	Degree of * Protection	Page
Pinion Shaft	Round Shaft				
<b>4IK25GN-FCH</b>	<b>4IK25AA-FCH</b>	Thermal Protector	E64197	IP54	A-28
<b>4IK25GN-ECH</b>	<b>4IK25AA-ECH</b>	Thermal Protector	E64197	IP54	A-28
<b>4IK25GN-SH</b>	<b>4IK25AA-SH</b>	Thermal Protector	E64197	IP54	A-28
<b>5IK40GN-FCH</b>	<b>5IK40AA-FCH</b>	Thermal Protector	E64197	IP54	A-34
<b>5IK40GN-ECH</b>	<b>5IK40AA-ECH</b>	Thermal Protector	E64197	IP54	A-34
<b>5IK40GN-SH</b>	<b>5IK40AA-SH</b>	Thermal Protector	E64197	IP54	A-34
<b>5IK60GU-FCH</b>	<b>5IK60AA-FCH</b>	Thermal Protector	E64197	IP54	A-40
<b>5IK60GU-ECH</b>	<b>5IK60AA-ECH</b>	Thermal Protector	E64197	IP54	A-40
<b>5IK60GU-SH</b>	<b>5IK60AA-SH</b>	Thermal Protector	E64197	IP54	A-40
<b>5IK90GU-FCH</b>	<b>5IK90AA-FCH</b>	Thermal Protector	E64197	IP54	A-47
<b>5IK90GU-ECH</b>	<b>5IK90AA-ECH</b>	Thermal Protector	E64197	IP54	A-47
<b>5IK90GU-SH</b>	<b>5IK90AA-SH</b>	Thermal Protector	E64197	IP54	A-47

\* Except for the mounting surface of the round shaft motor and conduit opening.

## K Series Induction Motors

Model		Overheating Protection Device	UL File No.	CSA Certificate No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft					Certification Body	Licence No.	
<b>0IK1GN-AUL</b>	<b>0IK1A-AUL</b>	Impedance Protection	E64199	LR47296	IP20	VDE	5876ÜG	A-18
—	<b>4IK40A-BA</b>	Thermal Protector	E64197	—	IP20	—	—	A-65
—	<b>5IK60A-BA</b>	Thermal Protector	E64197	—	IP20	—	—	A-65
—	<b>5IK90A-BFUL</b>	Thermal Protector	E64197	—	IP20	VDE	5877ÜG	A-65

## K Series Reversible Motors

Model		Overheating Protection Device	UL File No.	CSA Certificate No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft					Certification Body	Licence No.	
<b>ORK1GN-AUL</b>	<b>ORK1A-AUL</b>	Impedance Protection	E64199	LR47296	IP20	VDE	5876ÜG	A-72

## Synchronous Motors

Model		Overheating Protection Device	UL File No.	CSA Certificate No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft					Certification Body	Licence No.	
<b>2SK4GN-AUL</b>	<b>2SK4A-AULA</b>	Impedance Protection	E64199	LR47296	IP20	VDE	5876ÜG	A-103
<b>3SK10GN-AUL</b>	<b>3SK10A-AULA</b>	Thermal Protector	E64197	LR47296	IP20	VDE	5877ÜG	A-103
<b>4SK15GN-AUL</b>	<b>4SK15A-AULA</b>	Thermal Protector	E64197	LR47296	IP20	VDE	5877ÜG	A-103
<b>5SK25GN-AUL</b>	<b>5SK25A-AULA</b>	Thermal Protector	E64197	LR47296	IP20	VDE	5877ÜG	A-103

## Torque Motors

Model		Overheating Protection Device	UL File No.	CSA Certificate No.	Degree of Protection	EN/IEC Standard		Page
Pinion Shaft	Round Shaft					Certification Body	Licence No.	
<b>3TK6GN-AUL</b>	<b>3TK6A-AULA</b>	Thermal Protector	E64197	LR47296	IP20	VDE	5877ÜG	A-111
<b>4TK10GN-AUL</b>	<b>4TK10A-AULA</b>	Thermal Protector	E64197	LR47296	IP20	VDE	5877ÜG	A-111
<b>5TK20GN-AUL</b>	<b>5TK20A-AULA</b>	Thermal Protector	E64197	LR47296	IP20	VDE	5877ÜG	A-111

## Brake Pack

Model	UL File No.	Degree of Protection	Page
<b>SB50</b>	E91291	IP10 *	A-179

\* When attached to a flush mounting socket.

## Watertight Motors FPW Series

Model	Overheating Protection Device	UL File No.	Degree of Protection	Page
<b>FPW425A-□</b>	Thermal Protector	E64197	IP67	A-119
<b>FPW425C-□</b>	Thermal Protector	E64197	IP67	A-119
<b>FPW425S-□</b>	Thermal Protector	E64197	IP67	A-119
<b>FPW540A-□</b>	Thermal Protector	E64197	IP67	A-119
<b>FPW540C-□</b>	Thermal Protector	E64197	IP67	A-119
<b>FPW540S-□</b>	Thermal Protector	E64197	IP67	A-119
<b>FPW560A-□</b>	Thermal Protector	E64197	IP67	A-119
<b>FPW560C-□</b>	Thermal Protector	E64197	IP67	A-119
<b>FPW560S-□</b>	Thermal Protector	E64197	IP67	A-119
<b>FPW690A-□</b>	Thermal Protector	E64197	IP67	A-119
<b>FPW690C-□</b>	Thermal Protector	E64197	IP67	A-119
<b>FPW690S-□</b>	Thermal Protector	E64197	IP67	A-119

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

## Brushless DC Motor Systems BX Series

Model	Motor Model	Driver Model	UL File No.		Page
			Motor	Driver	
<b>BX230A-A</b>	BXM230-A2	BXD30A-A	E208200	E171462	B-10
<b>BX230A-□</b>	BXM230-GFH2	BXD30A-A	E208200	E171462	B-10
<b>BX230C-A</b>	BXM230-A2	BXD30A-C	E208200	E171462	B-10
<b>BX230C-□</b>	BXM230-GFH2	BXD30A-C	E208200	E171462	B-10
<b>BX460A-A</b>	BXM460-A2	BXD60A-A	E208200	E171462	B-10
<b>BX460A-□</b>	BXM460-GFH2	BXD60A-A	E208200	E171462	B-10
<b>BX460C-A</b>	BXM460-A2	BXD60A-C	E208200	E171462	B-10
<b>BX460C-□</b>	BXM460-GFH2	BXD60A-C	E208200	E171462	B-10
<b>BX5120A-A</b>	BXM5120-A2	BXD120A-A	E208200	E171462	B-10
<b>BX5120A-□</b>	BXM5120-GFH2	BXD120A-A	E208200	E171462	B-10
<b>BX5120C-A</b>	BXM5120-A2	BXD120A-C	E208200	E171462	B-10
<b>BX5120C-□</b>	BXM5120-GFH2	BXD120A-C	E208200	E171462	B-10
<b>BX6200A-A</b>	BXM6200-A	BXD200A-A	E62327	E171462	B-10
<b>BX6200A-□</b>	BXM6200-GH	BXD200A-A	E62327	E171462	B-10
<b>BX6200C-A</b>	BXM6200-A	BXD200A-C	E62327	E171462	B-10
<b>BX6200C-□</b>	BXM6200-GH	BXD200A-C	E62327	E171462	B-10
<b>BX6400S-A</b>	BXM6400-A	BXD400A-S	E62327	E171462	B-10
<b>BX6400S-□</b>	BXM6400-GH	BXD400B-S	E62327	E171462	B-10

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

## ■ Brushless DC Motor Systems BX Series with Electromagnetic Brake

Model	Motor Model	Driver Model	UL File No.		Page
			Motor	Driver	
<b>BX230AM-A</b>	BXM230M-A2	BXD30A-A	E208200	E171462	B-10
<b>BX230AM-□</b>	BXM230M-GFH2	BXD30A-A	E208200	E171462	B-10
<b>BX230CM-A</b>	BXM230M-A2	BXD30A-C	E208200	E171462	B-10
<b>BX230CM-□</b>	BXM230M-GFH2	BXD30A-C	E208200	E171462	B-10
<b>BX460AM-A</b>	BXM460M-A2	BXD60A-A	E208200	E171462	B-10
<b>BX460AM-□</b>	BXM460M-GFH2	BXD60A-A	E208200	E171462	B-10
<b>BX460CM-A</b>	BXM460M-A2	BXD60A-C	E208200	E171462	B-10
<b>BX460CM-□</b>	BXM460M-GFH2	BXD60A-C	E208200	E171462	B-10
<b>BX5120AM-A</b>	BXM5120M-A2	BXD120A-A	E208200	E171462	B-10
<b>BX5120AM-□</b>	BXM5120M-GFH2	BXD120A-A	E208200	E171462	B-10
<b>BX5120CM-A</b>	BXM5120M-A2	BXD120A-C	E208200	E171462	B-10
<b>BX5120CM-□</b>	BXM5120M-GFH2	BXD120A-C	E208200	E171462	B-10
<b>BX6200AM-A</b>	BXM6200M-A	BXD200A-A	E62327	E171462	B-10
<b>BX6200AM-□</b>	BXM6200M-GH	BXD200A-A	E62327	E171462	B-10
<b>BX6200CM-A</b>	BXM6200M-A	BXD200A-C	E62327	E171462	B-10
<b>BX6200CM-□</b>	BXM6200M-GH	BXD200A-C	E62327	E171462	B-10
<b>BX6400SM-A</b>	BXM6400M-A	BXD400A-S	E62327	E171462	B-10
<b>BX6400SM-□</b>	BXM6400M-GH	BXD400B-S	E62327	E171462	B-10

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

## ■ Brushless DC Motor Systems FBL II Series

Model	Motor Model	Driver Model	UL File No.		DEMKO Certificate No.		Degree of Protection		Page
			Motor	Driver	Motor	Driver	Motor	Driver	
<b>FBL575AW-□</b>	FBLM575W-GFB	FBLD75AW	E62327	E171462	124888	131974	IP40	IP10	B-34
<b>FBL575AW-A</b>	FBLM575W-A	FBLD75AW	E62327	E171462	124888	131974	IP40	IP10	B-34
<b>FBL575CW-□</b>	FBLM575W-GFB	FBLD75CW	E62327	E171462	124888	131974	IP40	IP10	B-34
<b>FBL575CW-A</b>	FBLM575W-A	FBLD75CW	E62327	E171462	124888	131974	IP40	IP10	B-34
<b>FBL575SW-□</b>	FBLM575W-GFB	FBLD75SW	E62327	E171462	124888	—	IP40	IP10	B-34
<b>FBL575SW-A</b>	FBLM575W-A	FBLD75SW	E62327	E171462	124888	—	IP40	IP10	B-34
<b>FBL5120AW-□</b>	FBLM5120W-GFB	FBLD120AW	E62327	E171462	124888	131974	IP40	IP10	B-34
<b>FBL5120AW-A</b>	FBLM5120W-A	FBLD120AW	E62327	E171462	124888	131974	IP40	IP10	B-34
<b>FBL5120CW-□</b>	FBLM5120W-GFB	FBLD120CW	E62327	E171462	124888	131974	IP40	IP10	B-34
<b>FBL5120CW-A</b>	FBLM5120W-A	FBLD120CW	E62327	E171462	124888	131974	IP40	IP10	B-34
<b>FBL5120SW-□</b>	FBLM5120W-GFB	FBLD120SW	E62327	E171462	124888	—	IP40	IP10	B-34
<b>FBL5120SW-A</b>	FBLM5120W-A	FBLD120SW	E62327	E171462	124888	—	IP40	IP10	B-34

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

● **FBL575SW**, **FBL5120SW** types conform to EN Standards.

## ■ Brushless DC Motor Systems AXU Series

Model	Motor Model	Control Unit Model	UL File No.		Degree of Protection		Page
			Motor	Control Unit	Motor	Control Unit	
<b>AXU210A-GN</b>	AXUM210-GN	AXUD10A	E208200	E171462	IP65	IP10	B-46
<b>AXU210A-A</b>	AXUM210-A	AXUD10A	E208200	E171462	IP65 *	IP10	B-46
<b>AXU210C-GN</b>	AXUM210-GN	AXUD10C	E208200	E171462	IP65	IP10	B-46
<b>AXU210C-A</b>	AXUM210-A	AXUD10C	E208200	E171462	IP65 *	IP10	B-46
<b>AXU210S-GN</b>	AXUM210-GN	AXUD10S	E208200	E171462	IP65	IP10	B-46
<b>AXU210S-A</b>	AXUM210-A	AXUD10S	E208200	E171462	IP65 *	IP10	B-46
<b>AXU425A-GN</b>	AXUM425-GN	AXUD25A	E208200	E171462	IP65	IP10	B-46
<b>AXU425A-A</b>	AXUM425-A	AXUD25A	E208200	E171462	IP65 *	IP10	B-46
<b>AXU425C-GN</b>	AXUM425-GN	AXUD25C	E208200	E171462	IP65	IP10	B-46
<b>AXU425C-A</b>	AXUM425-A	AXUD25C	E208200	E171462	IP65 *	IP10	B-46
<b>AXU425S-GN</b>	AXUM425-GN	AXUD25S	E208200	E171462	IP65	IP10	B-46
<b>AXU425S-A</b>	AXUM425-A	AXUD25S	E208200	E171462	IP65 *	IP10	B-46
<b>AXU540A-GN</b>	AXUM540-GN	AXUD40A	E208200	E171462	IP65	IP10	B-46
<b>AXU540A-A</b>	AXUM540-A	AXUD40A	E208200	E171462	IP65 *	IP10	B-46
<b>AXU540C-GN</b>	AXUM540-GN	AXUD40C	E208200	E171462	IP65	IP10	B-46
<b>AXU540C-A</b>	AXUM540-A	AXUD40C	E208200	E171462	IP65 *	IP10	B-46
<b>AXU540S-GN</b>	AXUM540-GN	AXUD40S	E208200	E171462	IP65	IP10	B-46
<b>AXU540S-A</b>	AXUM540-A	AXUD40S	E208200	E171462	IP65 *	IP10	B-46
<b>AXU590A-GU</b>	AXUM590-GU	AXUD90A	E208200	E171462	IP65	IP10	B-46
<b>AXU590A-A</b>	AXUM590-A	AXUD90A	E208200	E171462	IP65 *	IP10	B-46
<b>AXU590C-GU</b>	AXUM590-GU	AXUD90C	E208200	E171462	IP65	IP10	B-46
<b>AXU590C-A</b>	AXUM590-A	AXUD90C	E208200	E171462	IP65 *	IP10	B-46
<b>AXU590S-GU</b>	AXUM590-GU	AXUD90S	E208200	E171462	IP65	IP10	B-46
<b>AXU590S-A</b>	AXUM590-A	AXUD90S	E208200	E171462	IP65 *	IP10	B-46

\* Except for the mounting surface.

## ■ Brushless DC Motor Systems AXH Series

Model	Motor Model	Driver Model	UL File No.		Degree of Protection		Page
			Motor	Driver	Motor	Driver	
<b>AXH015K-□</b>	AXHM015K-□	AXHD15K	E208200	E208200	IP40	IP00	B-58
<b>AXH015K-A</b>	AXHM015K-A	AXHD15K	E208200	E208200	IP40	IP00	B-58
<b>AXH230KC-□</b>	AXHM230KC-GFH	AXHD30K	E208200	E208200	IP65	IP00	B-58
<b>AXH230KC-A</b>	AXHM230KC-A	AXHD30K	E208200	E208200	IP65 *	IP00	B-58
<b>AXH450KC-□</b>	AXHM450KC-GFH	AXHD50K	E208200	E208200	IP65	IP00	B-58
<b>AXH450KC-A</b>	AXHM450KC-A	AXHD50K	E208200	E208200	IP65 *	IP00	B-58
<b>AXH5100KC-□</b>	AXHM5100KC-GFH	AXHD100K	E208200	E208200	IP65	IP00	B-58
<b>AXH5100KC-A</b>	AXHM5100KC-A	AXHD100K	E208200	E208200	IP65 *	IP00	B-58

\* Except for the mounting surface.

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

## ■ AC Motor Systems BHF Series Speed Control Motor Unit

Model	Motor Model	Speed Control Pack Model	UL File No.		Degree of Protection		Page
			Motor	Speed Control Pack	Motor	Speed Control Pack	
<b>BHF62AT-□■</b>	BHM62T-G2	FSP200-1	E64197	E171462	IP54	IP10	B-70
<b>BHF62AT-A</b>	BHM62T-A	FSP200-1	E64197	E171462	IP54 *	IP10	B-70
<b>BHF62CT-□■</b>	BHM62T-G2	FSP200-2	E64197	E171462	IP54	IP10	B-70
<b>BHF62CT-A</b>	BHM62T-A	FSP200-2	E64197	E171462	IP54 *	IP10	B-70
<b>BHF62ST-□■</b>	BHM62T-G2	FSP200-3	E64197	E171462	IP54	IP10	B-70
<b>BHF62ST-A</b>	BHM62T-A	FSP200-3	E64197	E171462	IP54 *	IP10	B-70

\* Except for the mounting surface.

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

● Enter the shaft type "RH" or "RA" in the box(■) within the model name. (Right-Angle Shaft Type Only)

## ■ AC Motor Systems BHF Series Speed Control Motor Unit with Electromagnetic Brake

Model	Motor Model	Speed Control Pack Model	UL File No.		Degree of Protection		Page
			Motor	Speed Control Pack	Motor	Speed Control Pack	
<b>BHF62AMT-□■</b>	BHM62MT-G2	FSP200-1	E64197	E171462	IP54	IP10	B-70
<b>BHF62AMT-A</b>	BHM62MT-A	FSP200-1	E64197	E171462	IP54 *	IP10	B-70
<b>BHF62CMT-□■</b>	BHM62MT-G2	FSP200-2	E64197	E171462	IP54	IP10	B-70
<b>BHF62CMT-A</b>	BHM62MT-A	FSP200-2	E64197	E171462	IP54 *	IP10	B-70
<b>BHF62SMT-□■</b>	BHM62MT-G2	FSP200-3	E64197	E171462	IP54	IP10	B-70
<b>BHF62SMT-A</b>	BHM62MT-A	FSP200-3	E64197	E171462	IP54 *	IP10	B-70

\* Except for the mounting surface.

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

● Enter the shaft type "RH" or "RA" in the box(■) within the model name. (Right-Angle Shaft Type Only)

## ■ AC Motor Systems Speed Controllers

Model	UL File No.	Degree of Protection	Page
<b>ES01</b>	E91291	IP20	B-86
<b>ES02</b>	E91291	IP20	B-86

## ■ World K Series Speed Control Motors Induction Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	Page
Pinion Shaft	Round Shaft				
<b>2IK6RGN-AW</b>	<b>2IK6RA-AW</b>	Impedance Protection	E64199	IP20	B-86
<b>2IK6RGN-CW</b>	<b>2IK6RA-CW</b>	Impedance Protection	E64199	IP20	B-86
<b>3IK15RGN-AW</b>	<b>3IK15RA-AW</b>	Thermal Protector	E64197	IP20	B-86
<b>3IK15RGN-CW</b>	<b>3IK15RA-CW</b>	Thermal Protector	E64197	IP20	B-86
<b>4IK25RGN-AW</b>	<b>4IK25RA-AW</b>	Thermal Protector	E64197	IP20	B-86
<b>4IK25RGN-CW</b>	<b>4IK25RA-CW</b>	Thermal Protector	E64197	IP20	B-86
<b>5IK40RGN-AW</b>	<b>5IK40RA-AW</b>	Thermal Protector	E64197	IP20	B-86
<b>5IK40RGN-CW</b>	<b>5IK40RA-CW</b>	Thermal Protector	E64197	IP20	B-86
<b>5IK60RGU-AW</b>	<b>5IK60RA-AW</b>	Thermal Protector	E64197	IP40	B-86
<b>5IK60RGU-CW</b>	<b>5IK60RA-CW</b>	Thermal Protector	E64197	IP40	B-86

## ■ World K Series Speed Control Motors Reversible Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	Page
Pinion Shaft	Round Shaft				
<b>2RK6RGN-AW</b>	<b>2RK6RA-AW</b>	Impedance Protection	E64199	IP20	B-86
<b>2RK6RGN-CW</b>	<b>2RK6RA-CW</b>	Impedance Protection	E64199	IP20	B-86
<b>3RK15RGN-AW</b>	<b>3RK15RA-AW</b>	Thermal Protector	E64197	IP20	B-86
<b>3RK15RGN-CW</b>	<b>3RK15RA-CW</b>	Thermal Protector	E64197	IP20	B-86
<b>4RK25RGN-AW</b>	<b>4RK25RA-AW</b>	Thermal Protector	E64197	IP20	B-86
<b>4RK25RGN-CW</b>	<b>4RK25RA-CW</b>	Thermal Protector	E64197	IP20	B-86
<b>5RK40RGN-AW</b>	<b>5RK40RA-AW</b>	Thermal Protector	E64197	IP20	B-86
<b>5RK40RGN-CW</b>	<b>5RK40RA-CW</b>	Thermal Protector	E64197	IP20	B-86
<b>5RK60RGU-AW</b>	<b>5RK60RA-AW</b>	Thermal Protector	E64197	IP40	B-86
<b>5RK60RGU-CW</b>	<b>5RK60RA-CW</b>	Thermal Protector	E64197	IP40	B-86



## ■ V Series Speed Control Motors Induction Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	Page
Model	Motor Model				
<b>VSI206A-□U</b>	VSI206A-GV	Impedance Protection	E64199	IP20	B-86
<b>VSI206C-□E</b>	VSI206C-GV	Impedance Protection	E64199	IP20	B-86
<b>VSI315A-□U</b>	VSI315A-GV	Thermal Protector	E64197	IP20	B-86
<b>VSI315C-□E</b>	VSI315C-GV	Thermal Protector	E64197	IP20	B-86
<b>VSI425A-□U</b>	VSI425A-GV	Thermal Protector	E64197	IP20	B-86
<b>VSI425C-□E</b>	VSI425C-GV	Thermal Protector	E64197	IP20	B-86
<b>VSI540A-□U</b>	VSI540A-GVH	Thermal Protector	E64197	IP20	B-86
<b>VSI540C-□E</b>	VSI540C-GVH	Thermal Protector	E64197	IP20	B-86
<b>VSI560A-□U</b>	VSI560A-GVH	Thermal Protector	E64197	IP20	B-86
<b>VSI560C-□E</b>	VSI560C-GVH	Thermal Protector	E64197	IP20	B-86
<b>VSI590A-□U</b>	VSI590A-GVR	Thermal Protector	E64197	IP20	B-86
<b>VSI590C-□E</b>	VSI590C-GVR	Thermal Protector	E64197	IP20	B-86

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

## ■ V Series Speed Control Motors Reversible Motors

Model		Overheating Protection Device	UL File No.	Degree of Protection	Page
Model	Motor Model				
<b>VSR206A-□U</b>	VSR206A-GV	Impedance Protection	E64199	IP20	B-86
<b>VSR206C-□E</b>	VSR206C-GV	Impedance Protection	E64199	IP20	B-86
<b>VSR315A-□U</b>	VSR315A-GV	Thermal Protector	E64197	IP20	B-86
<b>VSR315C-□E</b>	VSR315C-GV	Thermal Protector	E64197	IP20	B-86
<b>VSR425A-□U</b>	VSR425A-GV	Thermal Protector	E64197	IP20	B-86
<b>VSR425C-□E</b>	VSR425C-GV	Thermal Protector	E64197	IP20	B-86
<b>VSR540A-□U</b>	VSR540A-GVH	Thermal Protector	E64197	IP20	B-86
<b>VSR540C-□E</b>	VSR540C-GVH	Thermal Protector	E64197	IP20	B-86
<b>VSR560A-□U</b>	VSR560A-GVH	Thermal Protector	E64197	IP20	B-86
<b>VSR560C-□E</b>	VSR560C-GVH	Thermal Protector	E64197	IP20	B-86
<b>VSR590A-□U</b>	VSR590A-GVR	Thermal Protector	E64197	IP20	B-86
<b>VSR590C-□E</b>	VSR590C-GVR	Thermal Protector	E64197	IP20	B-86

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

## ■ AC Motor Systems US Series

Model	Motor	Control Unit	Overheating Protection Device	UL File No.		Degree of Protection		Page
				Motor	Control Unit	Motor	Control Unit	
<b>US206-401U</b>	USM206-401W	USP206-1U	Impedance Protection	E64199	E91291	IP20	IP10	B-116
<b>US206-001U</b>	USM206-001W	USP206-1U	Impedance Protection	E64199	E91291	IP20	IP10	B-116
<b>US315-401U</b>	USM315-401W	USP315-1U	Thermal Protector	E64197	E91291	IP20	IP10	B-116
<b>US315-001U</b>	USM315-001W	USP315-1U	Thermal Protector	E64197	E91291	IP20	IP10	B-116
<b>US425-401U</b>	USM425-401W	USP425-1U	Thermal Protector	E64197	E91291	IP20	IP10	B-116
<b>US425-001U</b>	USM425-001W	USP425-1U	Thermal Protector	E64197	E91291	IP20	IP10	B-116
<b>US540-401U</b>	USM540-401W	USP540-1U	Thermal Protector	E64197	E91291	IP20	IP10	B-116
<b>US540-001U</b>	USM540-001W	USP540-1U	Thermal Protector	E64197	E91291	IP20	IP10	B-116
<b>US560-501U</b>	USM560-501W	USP560-1U	Thermal Protector	E64197	E91291	IP40	IP10	B-116
<b>US560-001U</b>	USM560-001W	USP560-1U	Thermal Protector	E64197	E91291	IP40	IP10	B-116
<b>US590-501U</b>	USM590-501W	USP590-1U	Thermal Protector	E64197	E91291	IP40	IP10	B-116
<b>US590-001U</b>	USM590-001W	USP590-1U	Thermal Protector	E64197	E91291	IP40	IP10	B-116
<b>US206-402E</b>	USM206-402W	USP206-2E	Impedance Protection	E64199	E91291	IP20	IP10	B-116
<b>US206-002E</b>	USM206-002W	USP206-2E	Impedance Protection	E64199	E91291	IP20	IP10	B-116
<b>US315-402E</b>	USM315-402W	USP315-2E	Thermal Protector	E64197	E91291	IP20	IP10	B-116
<b>US315-002E</b>	USM315-002W	USP315-2E	Thermal Protector	E64197	E91291	IP20	IP10	B-116
<b>US425-402E</b>	USM425-402W	USP425-2E	Thermal Protector	E64197	E91291	IP20	IP10	B-116
<b>US425-002E</b>	USM425-002W	USP425-2E	Thermal Protector	E64197	E91291	IP20	IP10	B-116
<b>US540-402E</b>	USM540-402W	USP540-2E	Thermal Protector	E64197	E91291	IP20	IP10	B-116
<b>US540-002E</b>	USM540-002W	USP540-2E	Thermal Protector	E64197	E91291	IP20	IP10	B-116
<b>US560-502E</b>	USM560-502W	USP560-2E	Thermal Protector	E64197	E91291	IP40	IP10	B-116
<b>US560-002E</b>	USM560-002W	USP560-2E	Thermal Protector	E64197	E91291	IP40	IP10	B-116
<b>US590-502E</b>	USM590-502W	USP590-2E	Thermal Protector	E64197	E91291	IP40	IP10	B-116
<b>US590-002E</b>	USM590-002W	USP590-2E	Thermal Protector	E64197	E91291	IP40	IP10	B-116

## ■ *α*STEP AS Series/AS PLUS Series

Type	AS			AS PLUS			UL File No.	Page				
	Model	Motor Model	Driver Model	Model	Motor Model	Driver Model						
Standard Single-Phase 100-115 VAC	<b>AS66</b> □ <b>A</b>	ASM66□A	ASD24A-A	<b>AS66</b> □ <b>AP</b>	ASM66□A	ASD24A-AP	Motor E64199	C-21				
	<b>AS69</b> □ <b>A</b>	ASM69□A	ASD30D-A	<b>AS69</b> □ <b>AP</b>	ASM69□A	ASD30D-AP						
	<b>AS98</b> □ <b>A</b>	ASM98□A	ASD30A-A	<b>AS98</b> □ <b>AP</b>	ASM98□A	ASD30A-AP						
	<b>AS911AA</b>	ASM911AA	ASD30E-A	<b>AS911AAP</b>	ASM911AA	ASD30E-AP						
Standard Single-Phase 200-230 VAC	<b>AS66</b> □ <b>C</b>	ASM66□C	ASD12A-C	<b>AS66</b> □ <b>CP</b>	ASM66□C	ASD12A-CP		Driver E171462	C-21			
	<b>AS69</b> □ <b>C</b>	ASM69□C	ASD16D-C	<b>AS69</b> □ <b>CP</b>	ASM69□C	ASD16D-CP						
	<b>AS98</b> □ <b>C</b>	ASM98□C	ASD16A-C	<b>AS98</b> □ <b>CP</b>	ASM98□C	ASD16A-CP						
	<b>AS911AC</b>	ASM911AC	ASD20A-C	<b>AS911ACP</b>	ASM911AC	ASD20A-CP						
Standard Three-Phase 200-230 VAC	<b>AS66</b> □ <b>S</b>	ASM66□C	ASD12A-S	<b>AS66</b> □ <b>SP</b>	ASM66□C	ASD12A-SP			Motor E64199	C-23		
	<b>AS69</b> □ <b>S</b>	ASM69□C	ASD16D-S	<b>AS69</b> □ <b>SP</b>	ASM69□C	ASD16D-SP						
	<b>AS98</b> □ <b>S</b>	ASM98□C	ASD16A-S	<b>AS98</b> □ <b>SP</b>	ASM98□C	ASD16A-SP						
	<b>AS911AS</b>	ASM911AC	ASD20A-S	<b>AS911ASP</b>	ASM911AC	ASD20A-SP						
<b>TH</b> Geared Single-Phase 100-115 VAC	<b>AS66</b> □ <b>A-T3.6</b>	ASM66□A-T3.6	ASD24B-A	<b>AS66</b> □ <b>AP-T3.6</b>	ASM66□A-T3.6	ASD24B-AP	Driver E171462			C-23		
	<b>AS66</b> □ <b>A-T7.2</b>	ASM66□A-T7.2		<b>AS66</b> □ <b>AP-T7.2</b>	ASM66□A-T7.2							
	<b>AS66</b> □ <b>A-T10</b>	ASM66□A-T10	ASD24C-A	<b>AS66</b> □ <b>AP-T10</b>	ASM66□A-T10	ASD24C-AP						
	<b>AS66</b> □ <b>A-T20</b>	ASM66□A-T20		<b>AS66</b> □ <b>AP-T20</b>	ASM66□A-T20							
	<b>AS66</b> □ <b>A-T30</b>	ASM66□A-T30	ASD30A-A	<b>AS66</b> □ <b>AP-T30</b>	ASM66□A-T30	ASD30A-AP						
	<b>AS98</b> □ <b>A-T3.6</b>	ASM98□A-T3.6		<b>AS98</b> □ <b>AP-T3.6</b>	ASM98□A-T3.6							
	<b>AS98</b> □ <b>A-T7.2</b>	ASM98□A-T7.2		<b>AS98</b> □ <b>AP-T7.2</b>	ASM98□A-T7.2							
	<b>AS98</b> □ <b>A-T10</b>	ASM98□A-T10		<b>AS98</b> □ <b>AP-T10</b>	ASM98□A-T10							
<b>TH</b> Geared Single-Phase 200-230 VAC	<b>AS98</b> □ <b>A-T20</b>	ASM98□A-T20	ASD30C-A	<b>AS98</b> □ <b>AP-T20</b>	ASM98□A-T20	ASD30C-AP		Driver E171462	C-24			
	<b>AS98</b> □ <b>A-T30</b>	ASM98□A-T30		<b>AS98</b> □ <b>AP-T30</b>	ASM98□A-T30							
	<b>AS66</b> □ <b>C-T3.6</b>	ASM66□C-T3.6	ASD12B-C	<b>AS66</b> □ <b>CP-T3.6</b>	ASM66□C-T3.6	ASD12B-CP						
	<b>AS66</b> □ <b>C-T7.2</b>	ASM66□C-T7.2		<b>AS66</b> □ <b>CP-T7.2</b>	ASM66□C-T7.2							
<b>TH</b> Geared Single-Phase 200-230 VAC	<b>AS66</b> □ <b>C-T10</b>	ASM66□C-T10	ASD12C-C	<b>AS66</b> □ <b>CP-T10</b>	ASM66□C-T10	ASD12C-CP	Driver E171462		C-23			
	<b>AS66</b> □ <b>C-T20</b>	ASM66□C-T20		<b>AS66</b> □ <b>CP-T20</b>	ASM66□C-T20							
	<b>AS66</b> □ <b>C-T30</b>	ASM66□C-T30	ASD16A-C	<b>AS66</b> □ <b>CP-T30</b>	ASM66□C-T30	ASD16A-CP						
	<b>AS98</b> □ <b>C-T3.6</b>	ASM98□C-T3.6		<b>AS98</b> □ <b>CP-T3.6</b>	ASM98□C-T3.6							
	<b>AS98</b> □ <b>C-T7.2</b>	ASM98□C-T7.2		<b>AS98</b> □ <b>CP-T7.2</b>	ASM98□C-T7.2							
	<b>AS98</b> □ <b>C-T10</b>	ASM98□C-T10		<b>AS98</b> □ <b>CP-T10</b>	ASM98□C-T10							
	<b>TH</b> Geared Single-Phase 200-230 VAC	<b>AS98</b> □ <b>C-T20</b>	ASM98□C-T20	ASD16C-C	<b>AS98</b> □ <b>CP-T20</b>	ASM98□C-T20				ASD16C-CP	Driver E171462	C-24
		<b>AS98</b> □ <b>C-T30</b>	ASM98□C-T30		<b>AS98</b> □ <b>CP-T30</b>	ASM98□C-T30						
<b>AS66</b> □ <b>S-T3.6</b>		ASM66□C-T3.6	ASD12B-S	<b>AS66</b> □ <b>SP-T3.6</b>	ASM66□C-T3.6	ASD12B-SP						
<b>AS66</b> □ <b>S-T7.2</b>		ASM66□C-T7.2		<b>AS66</b> □ <b>SP-T7.2</b>	ASM66□C-T7.2							
<b>TH</b> Geared Three-Phase 200-230 VAC		<b>AS66</b> □ <b>S-T10</b>	ASM66□C-T10	ASD12C-S	<b>AS66</b> □ <b>SP-T10</b>	ASM66□C-T10		ASD12C-SP	Driver E171462	C-23		
		<b>AS66</b> □ <b>S-T20</b>	ASM66□C-T20		<b>AS66</b> □ <b>SP-T20</b>	ASM66□C-T20						
		<b>AS66</b> □ <b>S-T30</b>	ASM66□C-T30	ASD16A-S	<b>AS66</b> □ <b>SP-T30</b>	ASM66□C-T30	ASD16A-SP					
		<b>AS98</b> □ <b>S-T3.6</b>	ASM98□C-T3.6		<b>AS98</b> □ <b>SP-T3.6</b>	ASM98□C-T3.6						
	<b>AS98</b> □ <b>S-T7.2</b>	ASM98□C-T7.2	<b>AS98</b> □ <b>SP-T7.2</b>		ASM98□C-T7.2							
	<b>AS98</b> □ <b>S-T10</b>	ASM98□C-T10	<b>AS98</b> □ <b>SP-T10</b>		ASM98□C-T10							
	<b>TH</b> Geared Three-Phase 200-230 VAC	<b>AS98</b> □ <b>S-T20</b>	ASM98□C-T20	ASD16C-S	<b>AS98</b> □ <b>SP-T20</b>	ASM98□C-T20	ASD16C-SP	Driver E171462				C-24
		<b>AS98</b> □ <b>S-T30</b>	ASM98□C-T30		<b>AS98</b> □ <b>SP-T30</b>	ASM98□C-T30						

● Enter **A** (Standard) or **M** (electromagnetic brake) in the box (□) within the model names.

Type	AS			AS PLUS			UL File No.	Page		
	Model	Motor Model	Driver Model	Model	Motor Model	Driver Model				
PN Geared Single-Phase 100-115 VAC	AS66□A-N5	ASM66□A-N5	ASD24A-A	AS66□AP-N5	ASM66□A-N5	ASD24A-AP	Motor E64199  Driver E171462	C-26		
	AS66□A-N7.2	ASM66□A-N7.2		AS66□AP-N7.2	ASM66□A-N7.2					
	AS66□A-N10	ASM66□A-N10		AS66□AP-N10	ASM66□A-N10					
	AS66□A-N25	ASM66□A-N25	ASD24B-A	AS66□AP-N25	ASM66□A-N25	ASD24B-AP				
	AS66□A-N36	ASM66□A-N36	ASD24C-A	AS66□AP-N36	ASM66□A-N36	ASD24C-AP				
	AS66□A-N50	ASM66□A-N50		AS66□AP-N50	ASM66□A-N50					
	AS98□A-N5	ASM98□A-N5	ASD30A-A	AS98□AP-N5	ASM98□A-N5	ASD30A-AP		C-27		
	AS98□A-N7.2	ASM98□A-N7.2		AS98□AP-N7.2	ASM98□A-N7.2					
	AS98□A-N10	ASM98□A-N10		AS98□AP-N10	ASM98□A-N10					
	AS98□A-N25	ASM98□A-N25		AS98□AP-N25	ASM98□A-N25					
	AS98□A-N36	ASM98□A-N36		ASD30B-A	AS98□AP-N36				ASM98□A-N36	ASD30B-AP
	AS98□A-N50	ASM98□A-N50			AS98□AP-N50				ASM98□A-N50	
	PN Geared Single-Phase 200-230 VAC	AS66□C-N5	ASM66□C-N5	ASD12A-C	AS66□CP-N5	ASM66□C-N5		ASD12A-CP	Motor E64199  Driver E171462	C-26
		AS66□C-N7.2	ASM66□C-N7.2		AS66□CP-N7.2	ASM66□C-N7.2				
AS66□C-N10		ASM66□C-N10	AS66□CP-N10		ASM66□C-N10					
AS66□C-N25		ASM66□C-N25	ASD12B-C	AS66□CP-N25	ASM66□C-N25	ASD12B-CP				
AS66□C-N36		ASM66□C-N36	ASD12C-C	AS66□CP-N36	ASM66□C-N36	ASD12C-CP				
AS66□C-N50		ASM66□C-N50		AS66□CP-N50	ASM66□C-N50					
AS98□C-N5		ASM98□C-N5	ASD16A-C	AS98□CP-N5	ASM98□C-N5	ASD16A-CP	C-27			
AS98□C-N7.2		ASM98□C-N7.2		AS98□CP-N7.2	ASM98□C-N7.2					
AS98□C-N10		ASM98□C-N10		AS98□CP-N10	ASM98□C-N10					
AS98□C-N25		ASM98□C-N25		AS98□CP-N25	ASM98□C-N25					
AS98□C-N36		ASM98□C-N36		ASD16B-C	AS98□CP-N36			ASM98□C-N36		ASD16B-CP
AS98□C-N50		ASM98□C-N50			AS98□CP-N50			ASM98□C-N50		
PN Geared Three-Phase 200-230 VAC		AS66□S-N5	ASM66□C-N5	ASD12A-S	AS66□SP-N5	ASM66□C-N5	ASD12A-SP	Motor E64199  Driver E171462		C-26
		AS66□S-N7.2	ASM66□C-N7.2		AS66□SP-N7.2	ASM66□C-N7.2				
	AS66□S-N10	ASM66□C-N10	AS66□SP-N10		ASM66□C-N10					
	AS66□S-N25	ASM66□C-N25	ASD12B-S	AS66□SP-N25	ASM66□C-N25	ASD12B-SP				
	AS66□S-N36	ASM66□C-N36	ASD12C-S	AS66□SP-N36	ASM66□C-N36	ASD12C-SP				
	AS66□S-N50	ASM66□C-N50		AS66□SP-N50	ASM66□C-N50					
	AS98□S-N5	ASM98□C-N5	ASD16A-S	AS98□SP-N5	ASM98□C-N5	ASD16A-SP	C-27			
	AS98□S-N7.2	ASM98□C-N7.2		AS98□SP-N7.2	ASM98□C-N7.2					
	AS98□S-N10	ASM98□C-N10		AS98□SP-N10	ASM98□C-N10					
	AS98□S-N25	ASM98□C-N25		AS98□SP-N25	ASM98□C-N25					
	AS98□S-N36	ASM98□C-N36		ASD16B-S	AS98□SP-N36				ASM98□C-N36	ASD16B-SP
	AS98□S-N50	ASM98□C-N50			AS98□SP-N50				ASM98□C-N50	
	HG Geared Single-Phase 100-115 VAC	AS66□A2-H50	ASM66□A2-H50	ASD24B-A	AS66□AP2-H50	ASM66□A2-H50	ASD24B-AP		C-28	
		AS66□A2-H100	ASM66□A2-H100	ASD24C-A	AS66□AP2-H100	ASM66□A2-H100	ASD24C-AP			
AS98□A-H50		ASM98□A-H50	ASD30B-A	AS98□AP-H50	ASM98□A-H50	ASD30B-AP				
AS98□A-H100		ASM98□A-H100		AS98□AP-H100	ASM98□A-H100					
HG Geared Single-Phase 200-230 VAC	AS66□C2-H50	ASM66□C2-H50	ASD12B-C	AS66□CP2-H50	ASM66□C2-H50	ASD12B-CP				
	AS66□C2-H100	ASM66□C2-H100	ASD12C-C	AS66□CP2-H100	ASM66□C2-H100	ASD12C-CP				
	AS98□C-H50	ASM98□C-H50	ASD16B-C	AS98□CP-H50	ASM98□C-H50	ASD16B-CP				
	AS98□C-H100	ASM98□C-H100		AS98□CP-H100	ASM98□C-H100					
HG Geared Three-Phase 200-230 VAC	AS66□S2-H50	ASM66□C2-H50	ASD12B-S	AS66□SP2-H50	ASM66□C2-H50	ASD12B-SP				
	AS66□S2-H100	ASM66□C2-H100	ASD12C-S	AS66□SP2-H100	ASM66□C2-H100	ASD12C-SP				
	AS98□S-H50	ASM98□C-H50	ASD16B-S	AS98□SP-H50	ASM98□C-H50	ASD16B-SP				
	AS98□S-H100	ASM98□C-H100		AS98□SP-H100	ASM98□C-H100					

• Enter **A** (Standard) or **M** (electromagnetic brake) in the box (□) within the model names.

## ■ **αSTEP ASC Series**

Type	Model	Motor Model	Driver Model	UL File No.	Page	
Standard	<b>ASC34AK</b>	ASM34AK	ASD10A-K	Motor E208200	C-59	
	<b>ASC36AK</b>	ASM36AK	ASD10B-K			
	<b>ASC46□K</b>	ASM46□K	ASD18A-K			
	<b>ASC66□K</b>	ASM66□K	ASD36A-K			
TH Geared	<b>ASC46□K-T3.6</b>	ASM46□K-T3.6	ASD18B-K		Driver E171462 E208200	C-60
	<b>ASC46□K-T7.2</b>	ASM46□K-T7.2				
	<b>ASC46□K-T10</b>	ASM46□K-T10				
	<b>ASC46□K-T20</b>	ASM46□K-T20				
	<b>ASC46□K-T30</b>	ASM46□K-T30	ASD36B-K			C-61
	<b>ASC66□K-T3.6</b>	ASM66□K-T3.6				
	<b>ASC66□K-T7.2</b>	ASM66□K-T7.2				
	<b>ASC66□K-T10</b>	ASM66□K-T10				
PN Geared	<b>ASC66□K-T20</b>	ASM66□K-T20	ASD18A-K	C-62		
	<b>ASC66□K-T30</b>	ASM66□K-T30				
	<b>ASC46□K-N7.2</b>	ASM46□K-N7.2				
	<b>ASC46□K-N10</b>	ASM46□K-N10				
	<b>ASC66□K-N5</b>	ASM66□K-N5	ASD36A-K		C-63	
	<b>ASC66□K-N7.2</b>	ASM66□K-N7.2				
	<b>ASC66□K-N10</b>	ASM66□K-N10				
	<b>ASC66□K-N25</b>	ASM66□K-N25				
HG Geared	<b>ASC66□K-N36</b>	ASM66□K-N36	ASD36B-K	C-64		
	<b>ASC66□K-N50</b>	ASM66□K-N50				
	<b>ASC34AK-H50</b>	ASM34AK-H50	ASD10C-K			C-65
	<b>ASC34AK-H100</b>	ASM34AK-H100				
	<b>ASC46□K-H50</b>	ASM46□K-H50	ASD18A-K			
	<b>ASC46□K-H100</b>	ASM46□K-H100				
<b>ASC66□K-H50</b>	ASM66□K-H50	ASD36B-K				
<b>ASC66□K-H100</b>	ASM66□K-H100					

● Enter **A** (Standard) or **M** (electromagnetic brake) in the box (□) within the model names.

## ■ Stepping Motors RK Series

In addition to the products listed on pages G-21 and G-22, we also offer products conforming to various safety standards. Refer to page C-79 for details.

Type	Model	Motor Model	Driver Model	UL File No.	EN/IEC Standards		Page
					Motor	Driver	
Standard Single-Phase 100-115 VAC	<b>RK564□A</b>	PK564□W	RKD514L-A	Motor E64199	Certification Body VDE Licence No. 114293	—	C-82
	<b>RK566□A</b>	PK566□W	RKD514L-A				
	<b>RK569□A</b>	PK569□W	RKD514L-A				
	<b>RK596□A</b>	PK596□W	RKD514H-A	Driver E171462			
	<b>RK599□A</b>	PK599□W	RKD514H-A				
	<b>RK5913□A</b>	PK5913□W	RKD514H-A				
Standard Single-Phase 200-230 VAC	<b>RK564□C</b>	PK564□W	RKD514L-C	Motor E64199	Certification Body VDE Licence No. 114293	—	C-82
	<b>RK566□C</b>	PK566□W	RKD514L-C				
	<b>RK569□C</b>	PK569□W	RKD514L-C				
	<b>RK596□C</b>	PK596□W	RKD514H-C	Driver E171462			
	<b>RK599□C</b>	PK599□W	RKD514H-C				
	<b>RK5913□C</b>	PK5913□W	RKD514H-C				
TH Geared Single-Phase 100-115 VAC	<b>RK564□A-T3.6</b>	PK564□W-T3.6	RKD514L-A	Motor E64199	Certification Body VDE Licence No. 114293	—	C-84
	<b>RK564□A-T7.2</b>	PK564□W-T7.2	RKD514L-A				
	<b>RK564□A-T10</b>	PK564□W-T10	RKD514L-A				
	<b>RK564□A-T20</b>	PK564□W-T20	RKD514L-A				
	<b>RK564□A-T30</b>	PK564□W-T30	RKD514L-A				
	<b>RK596□A-T3.6</b>	PK596□W-T3.6	RKD514H-A	Driver E171462			C-85
	<b>RK596□A-T7.2</b>	PK596□W-T7.2	RKD514H-A				
	<b>RK596□A-T10</b>	PK596□W1-T10	RKD514H-A				
	<b>RK596□A-T20</b>	PK596□W1-T20	RKD514H-A				
	<b>RK596□A-T30</b>	PK596□W1-T30	RKD514H-A				

● Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model names.

Type	Model	Motor Model	Driver Model	UL File No.	EN/IEC Standards		Page
					Motor	Driver	
<b>TH</b> Geared Single-Phase 200-230 VAC	<b>RK564</b> □ <b>C-T3.6</b>	PK564□W-T3.6	RKD514L-C	Motor E64199  Driver E171462	Certification Body VDE Licence No. 114293	—	C-84
	<b>RK564</b> □ <b>C-T7.2</b>	PK564□W-T7.2	RKD514L-C				
	<b>RK564</b> □ <b>C-T10</b>	PK564□W-T10	RKD514L-C				
	<b>RK564</b> □ <b>C-T20</b>	PK564□W-T20	RKD514L-C				
	<b>RK564</b> □ <b>C-T30</b>	PK564□W-T30	RKD514L-C				
	<b>RK596</b> □ <b>C-T3.6</b>	PK596□W-T3.6	RKD514H-C				C-85
	<b>RK596</b> □ <b>C-T7.2</b>	PK596□W-T7.2	RKD514H-C				
	<b>RK596</b> □ <b>C-T10</b>	PK596□W-T10	RKD514H-C				
	<b>RK596</b> □ <b>C-T20</b>	PK596□W-T20	RKD514H-C				
<b>RK596</b> □ <b>C-T30</b>	PK596□W-T30	RKD514H-C					
<b>PN</b> Geared Single-Phase 100-115 VAC	<b>RK566</b> □ <b>A-N5</b>	PK566□W-N5	RKD514L-A	Motor E64199  Driver E171462	Certification Body VDE Licence No. 114293	—	C-87
	<b>RK566</b> □ <b>A-N7.2</b>	PK566□W-N7.2	RKD514L-A				
	<b>RK566</b> □ <b>A-N10</b>	PK566□W-N10	RKD514L-A				
	<b>RK564</b> □ <b>A-N25</b>	PK564□W-N25	RKD514L-A				
	<b>RK564</b> □ <b>A-N36</b>	PK564□W-N36	RKD514L-A				
	<b>RK564</b> □ <b>A-N50</b>	PK564□W-N50	RKD514L-A				
	<b>RK599</b> □ <b>A-N5</b>	PK599□W-N5	RKD514H-A				C-88
	<b>RK599</b> □ <b>A-N7.2</b>	PK599□W-N7.2	RKD514H-A				
	<b>RK599</b> □ <b>A-N10</b>	PK599□W-N10	RKD514H-A				
	<b>RK596</b> □ <b>A-N25</b>	PK596□W-N25	RKD514H-A				
	<b>RK596</b> □ <b>A-N36</b>	PK596□W-N36	RKD514H-A				
	<b>RK596</b> □ <b>A-N50</b>	PK596□W-N50	RKD514H-A				
<b>PN</b> Geared Single-Phase 200-230 VAC	<b>RK566</b> □ <b>C-N5</b>	PK566□W-N5	RKD514L-C	Motor E64199  Driver E171462	Certification Body VDE Licence No. 114293	—	C-87
	<b>RK566</b> □ <b>C-N7.2</b>	PK566□W-N7.2	RKD514L-C				
	<b>RK566</b> □ <b>C-N10</b>	PK566□W-N10	RKD514L-C				
	<b>RK564</b> □ <b>C-N25</b>	PK564□W-N25	RKD514L-C				
	<b>RK564</b> □ <b>C-N36</b>	PK564□W-N36	RKD514L-C				
	<b>RK564</b> □ <b>C-N50</b>	PK564□W-N50	RKD514L-C				
	<b>RK599</b> □ <b>C-N5</b>	PK599□W-N5	RKD514H-C				C-88
	<b>RK599</b> □ <b>C-N7.2</b>	PK599□W-N7.2	RKD514H-C				
	<b>RK599</b> □ <b>C-N10</b>	PK599□W-N10	RKD514H-C				
	<b>RK596</b> □ <b>C-N25</b>	PK596□W-N25	RKD514H-C				
	<b>RK596</b> □ <b>C-N36</b>	PK596□W-N36	RKD514H-C				
	<b>RK596</b> □ <b>C-N50</b>	PK596□W-N50	RKD514H-C				
<b>HG</b> Geared Single-Phase 100-115 VAC	<b>RK564</b> □ <b>A-H50</b>	PK564□W-H50S	RKD514L-A	Motor E64199	—	—	C-89
	<b>RK564</b> □ <b>A-H100</b>	PK564□W-H100S	RKD514L-A	Driver E171462			
	<b>RK596</b> □ <b>A-H50</b>	PK596□W1-H50	RKD514H-A	—			
	<b>RK596</b> □ <b>A-H100</b>	PK596□W1-H100	RKD514H-A	—			
<b>HG</b> Geared Single-Phase 200-230 VAC	<b>RK564</b> □ <b>C-H50</b>	PK564□W-H50S	RKD514L-C	Motor E64199	—	—	C-89
	<b>RK564</b> □ <b>C-H100</b>	PK564□W-H100S	RKD514L-C	Driver E171462			
	<b>RK596</b> □ <b>C-H50</b>	PK596□W1-H50	RKD514H-C	—			
	<b>RK596</b> □ <b>C-H100</b>	PK596□W1-H100	RKD514H-C	—			

• Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model names.

### Stepping Motors 5-Phase CSK Series

Type	Model	Motor Model	Driver Model	UL File No.	Page	
Standard	<b>CSK543-N</b> □ <b>TA</b>	PK543N□WA	CSD5807N-T	Motor E64199  Driver E171462 E208200	C-122	
	<b>CSK544-N</b> □ <b>TA</b>	PK544N□WA	CSD5807N-T			
	<b>CSK545-N</b> □ <b>TA</b>	PK545N□WA	CSD5807N-T			
	<b>CSK564-N</b> □ <b>TA</b>	PK564N□WA	CSD5814N-T			
	<b>CSK566-N</b> □ <b>TA</b>	PK566N□WA	CSD5814N-T			
	<b>CSK569-N</b> □ <b>TA</b>	PK569N□WA	CSD5814N-T			
<b>TH</b> Geared	<b>CSK543</b> □ <b>A-TG3.6</b>	PK543N□WA-T3.6	CSD5807N-T	Driver E171462 E208200	C-124	
	<b>CSK543</b> □ <b>A-TG7.2</b>	PK543N□WA-T7.2	CSD5807N-T			
	<b>CSK543</b> □ <b>A-TG10</b>	PK543N□WA-T10	CSD5807N-T			
	<b>CSK543</b> □ <b>A-TG20</b>	PK543N□WA-T20	CSD5807N-T			
	<b>CSK543</b> □ <b>A-TG30</b>	PK543N□WA-T30	CSD5807N-T			
	<b>CSK564</b> □ <b>A-TG3.6</b>	PK564N□WA-T3.6	CSD5814N-T			C-125
	<b>CSK564</b> □ <b>A-TG7.2</b>	PK564N□WA-T7.2	CSD5814N-T			
	<b>CSK564</b> □ <b>A-TG10</b>	PK564N□WA-T10	CSD5814N-T			
	<b>CSK564</b> □ <b>A-TG20</b>	PK564N□WA-T20	CSD5814N-T			
	<b>CSK564</b> □ <b>A-TG30</b>	PK564N□WA-T30	CSD5814N-T			

• Enter **A** (single shaft) or **B** (double shaft) in the box (□) within the model names.

## ■ Low-Speed Synchronous Motors

Model	Overheating Protection Device	UL File No.	Page
<b>SMK237A-A</b>	Impedance Protection	E64199	C-273
<b>SMK216A-GN</b>	Impedance Protection	E64199	C-273
<b>SMK5100A-AA</b>	Impedance Protection	E64199	C-273
<b>SMK5160A-AA</b>	Impedance Protection	E64199	C-273
<b>SMK550A-GN</b>	Impedance Protection	E64199	C-273

## ■ AC Axial Flow Fans **MRS Series**

Model	Overheating Protection Device	UL File No.	CSA * Certificate No.	Degree of Protection	EN/IEC Standard		Page
					Certification Body	Licence No. or Certificate No.	
<b>MRS25-B</b> <b>MRS25-D</b> <b>MRS25-T</b> <b>MRS25-BM</b> <b>MRS25-DM</b> <b>MRS25-TM</b> <b>MRS25-BB</b> <b>MRS25-DB</b> <b>MRS25-TB</b>	Thermal Protector	E58377	—*	IP00	—	—	E-24
<b>MRS20-BUL</b> <b>MRS20-BM</b> <b>MRS20-DUL</b> <b>MRS20-DM</b> <b>MRS20-TUL</b> <b>MRS20-TM</b>		E58377	LR62524	IP00	VDE	5867	E-26
<b>MRS18-BUL</b> <b>MRS18-BTM</b> <b>MRS18-DUL</b> <b>MRS18-DTM</b> <b>MRS18-TUL</b> <b>MRS18-TTM</b>		E58377	LR62524	IP00	VDE	5868	E-28
<b>MRS16-BUL</b> <b>MRS16-BTM</b> <b>MRS16-BTA</b> <b>MRS16-DUL</b> <b>MRS16-DTM</b> <b>MRS16-DTA</b> <b>MRS16-TUL</b> <b>MRS16-TTM</b> <b>MRS16-TTA</b>		E58377	LR62524	IP00	VDE	5869	E-30
<b>MRS14-TUL</b> <b>MRS14-TTM</b>		E58377	LR62524	IP00	VDE	5866	E-32
<b>MRS18V2-B</b> <b>MRS18V2-D</b>		E58377	—*	IP00	DEMKO	138655	E-34

\* The **MRS25** and **MRS18V2** types are recognized to Canadian safety requirements under the Component Recognition Program of Underwriters Laboratories Inc.

## ■ DC Axial Flow Fans MDS•MD Series

Model	UL File No.	Degree of Protection	EN/IEC Standard		Page
			Certification Body	Certificate No.	
<b>MDS1751-24</b>	E58377	IP00	DEMKO	135713	E-46
<b>MDS1751-24B</b> <b>MDS1751-24S</b>	E58377	IP00	—	—	
<b>MDE1225-12L</b> <b>MDE1225-24L</b>	E58377	IP00	DEMKO	135713	E-44
<b>MDS1225-12</b> <b>MDS1225-12M</b> <b>MDS1225-24</b> <b>MDS1225-24M</b>					E-48
<b>MD1225-12</b> <b>MD1225-24</b>					E-50
<b>MD925A-12</b> <b>MD925A-12L</b> <b>MD925A-24</b> <b>MD925A-24L</b> <b>MD925AM-12</b> <b>MD925AM-24</b> <b>MD925AL-12</b> <b>MD925AL-24</b>					E-52
<b>MD925A-12S</b> <b>MD925A-24S</b>	E58377	IP00	—	—	E-52
<b>MD825B-12</b> <b>MD825B-12L</b> <b>MD825B-24</b> <b>MD825B-24L</b> <b>MD825BM-12</b> <b>MD825BM-24</b> <b>MD825BL-12</b>	E58377	IP00	DEMKO	135713	E-54
<b>MD825B-12S</b> <b>MD825B-24S</b>	E58377	IP00	—	—	E-54
<b>MD625B-12</b> <b>MD625B-12L</b> <b>MD625B-24</b> <b>MD625B-24L</b> <b>MD625BM-12</b> <b>MD625BM-24</b>	E58377	IP00	DEMKO	135713	E-56
<b>MD625B-12S</b> <b>MD625B-24S</b>	E58377	IP00	—	—	E-56
<b>MDS510-12</b> <b>MDS510-12L</b> <b>MDS510-24</b> <b>MDS510-24L</b> <b>MDS510M-5</b> <b>MDS510M-12</b> <b>MDS510M-24</b>	E58377	IP00	DEMKO	135713	E-58
<b>MDS410-12</b> <b>MDS410-12L</b> <b>MDS410-24</b> <b>MDS410-24L</b> <b>MDS410M-5</b>	E58377	IP00	DEMKO	135713	E-60

## ■ AC Axial Flow Fans **MU Series**

Model	Overheating Protection Device	UL File No.	CSA Certificate No.	Degree of Protection	EN/IEC Standard		JET Certificate No.	Page
					Certification Body	Licence No.		
<b>MU1238A-21B</b> <b>MU1238B-21B</b> <b>MU1238L-21B</b>	Impedance Protection	E58377	LR62524	IP00	VDE	5870	0018-91002-001	E-36
<b>MU1238A-51B</b> <b>MU1238B-51B</b> <b>MU1238L-51B</b>		E58377	LR62524	IP00	VDE	5870	0018-91002-002	E-36
<b>MU1225S-21</b> <b>MU1225M-21</b>		E58377	LR62524	IP00	VDE	5870	0018-91002-001	E-38
<b>MU1225S-51</b> <b>MU1225M-51</b>		E58377	LR62524	IP00	VDE	5870	0018-91002-002 0018-91002-003	E-38
<b>MU925S-21</b> <b>MU925M-21</b>		E58377	LR62524	IP00	VDE	5870	0018-91002-001	E-40
<b>MU925S-51</b> <b>MU925M-51</b>		E58377	LR62524	IP00	VDE	5870	0018-91002-002 0018-91002-003	E-40
<b>MU825S-23</b> <b>MU825S-53</b>		E58377	LR62524	IP00	VDE	5870	—	E-42

## ■ Centrifugal Blowers **MB Series**

Model	Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
				Certification Body	Licence No. or Certificate No.	
<b>MB1665-B</b> <b>MB1665-D</b> <b>MB1665-T</b>	Thermal Protector	E58377	IP00	VDE	6755	E-66
<b>MB1255-B</b> <b>MB1255-D</b>	Thermal Protector	E58377	IP00	VDE	6755	E-68
<b>MB1255-T</b>	Thermal Protector	E58377	IP00	—	—	E-68
<b>MB1040-B</b> <b>MB1040-D</b>	Thermal Protector	E58377	IP00	VDE	6755	E-70
<b>MB840-B</b> <b>MB840-D</b>	Thermal Protector	E58377	IP00	DEMKO	135714	E-72
<b>MB840-T</b>	Thermal Protector	E58377	IP00	—	—	E-72
<b>MB630-B</b> <b>MB630-D</b>	Impedance Protection	E58377	IP00	VDE	6755	E-74
<b>MB520-B</b> <b>MB520-D</b>	Impedance Protection	E58377	IP00	VDE	6755	E-76

## ■ Cross Flow Fans **MF Series**

Model	Overheating Protection Device	UL File No.	Degree of Protection	EN/IEC Standard		Page
				Certification Body	Licence No.	
<b>MF930-BC</b> <b>MF930B-BC</b> <b>MF930-DC</b> <b>MF930B-DC</b>	Thermal Protector	E58377	IP00	VDE	5854	E-88
<b>MF915-BC</b> <b>MF915B-BC</b> <b>MF915-DC</b> <b>MF915B-DC</b>	Thermal Protector	E58377	IP00	VDE	5854	E-90

## ■ Thermostats

Model	UL File No.	CSA Certificate No.	Degree of Protection	Page
<b>AM1-WA1</b> <b>AM1-XA1</b>	E164102	E164102	IP00	E-98