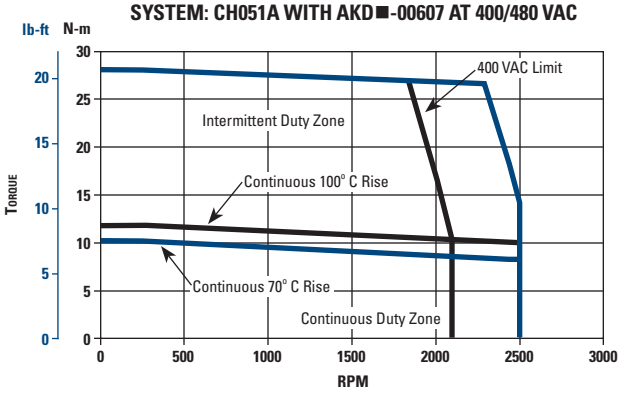
Technical Performance Data

CH05xA

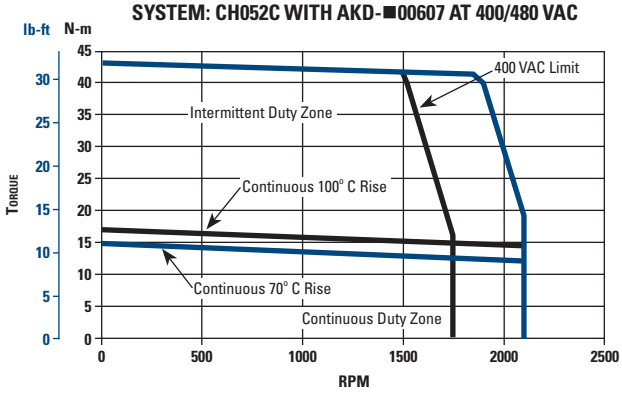
System Performance at 400/480 VAC CH05xA/C Cartridge DDR Motor with AKD Servo Drive Series Amplifiers

System Performance	Symbol	Units	CH051A	CH052C	CH053A	CH054A
Continuous Torque 100°C Rise[123]	Tc	lb-ft (N-m)	8.66 (11.7)	12.5 (16.9)	15.5 (21.0)	18.4 (24.9)
Cont. Line Current	Ic	amps RMS	4.78	5.73	9.28	9.82
Continuous Torque 70°C Rise[123]	Tc	lb-ft (N-m)	7.54 (10.2)	10.8 (14.7)	13.5 (18.3)	16.1 (21.8)
Cont. Line Current	Ic	amps RMS	4.17	5.00	8.10	8.62
Peak Torque	Tp	lb-ft (N-m)	20.7 (28.0)	31.8 (43.1)	39.9 (54.1)	47.1 (63.8)
Peak Line Current	Ip	amps RMS	12.0	15.5	25.1	26.5
Maximum Speed (400 V) Maximum Speed (480 V)	N max	RPM	2100 2500	1750 2100	2350 2500	2100 2500
Weight	Wt	lb (kg)	18.5 (8.39)	23.5 (10.7)	29.0 (13.2)	34.0 (15.4)
Rotor Inertia	Jm	oz-in-sec^2 (kg-cm^2)	0.388 (27.4)	0.508 (35.9)	0.628 (44.3)	0.748 (52.8)

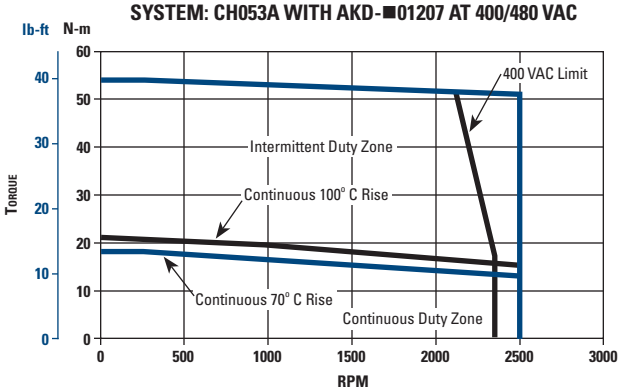
SYSTEM: CH051A WITH AKD■-00607 AT 400/480 VAC



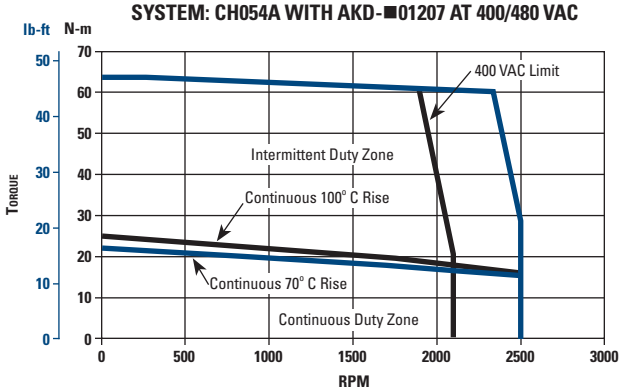
SYSTEM: CH052C WITH AKD-■00607 AT 400/480 VAC



SYSTEM: CH053A WITH AKD-■01207 AT 400/480 VAC



SYSTEM: CH054A WITH AKD-■01207 AT 400/480 VAC

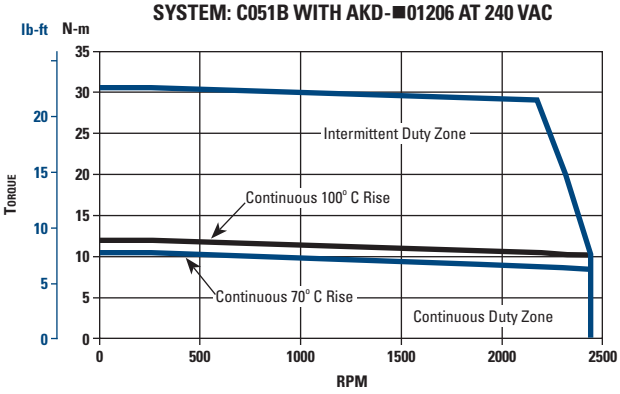


Notes:
1. At 40°C ambient.
2. Increase Tc by 1.06 times for 25°C ambient.
3. Temperature rise assumes a 18 x 18 x 0.50 inch aluminum mounting plate or equivalent.

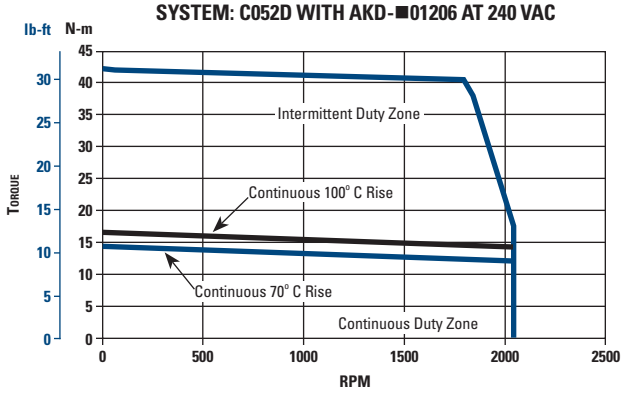
System Performance at 240 VAC C05xB/D Cartridge DDR Motor (High-Speed Winding) with AKD Servo Drive Series Amplifiers

System Performance	Symbol	Units	C051B	C052D	C053B	C054B
Continuous Torque 100°C Rise[123]	Tc	lb-ft (N-m)	8.77 (11.9)	12.2 (16.5)	14.9 (20.2)	17.6 (23.8)
Cont. Line Current	Ic	amps RMS	9.34	10.9	18.4	17.4
Continuous Torque 70°C Rise[123]	Tc	lb-ft (N-m)	7.63 (10.4)	10.6 (14.4)	12.9 (17.6)	15.4 (20.9)
Cont. Line Current	Ic	amps RMS	8.15	9.55	16.0	15.3
Peak Torque	Tp	lb-ft (N-m)	22.6 (30.6)	31.2 (42.3)	37.0 (50.1)	45.1 (61.2)
Peak Line Current	Ip	amps RMS	25.2	29.6	48.0	47.0
Maximum Speed	N max	RPM	2450	2050	2500	2350
Weight	Wt	lb (kg)	18.5 (8.39)	23.5 (10.7)	29.0 (13.2)	34.0 (15.4)
Rotor Inertia	Jm	oz-in-sec^2 (kg-cm^2)	0.388 (27.4)	0.508 (35.9)	0.628 (44.3)	0.748 (52.8)

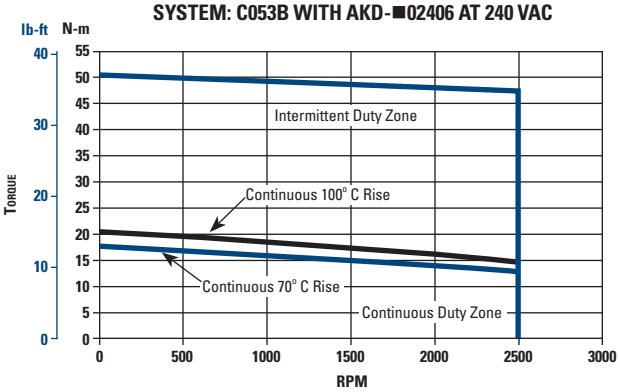
SYSTEM: C051B WITH AKD-■01206 AT 240 VAC



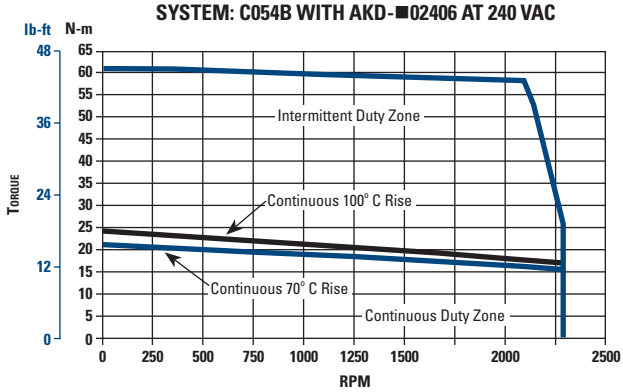
SYSTEM: C052D WITH AKD-■01206 AT 240 VAC



SYSTEM: C053B WITH AKD-■02406 AT 240 VAC



SYSTEM: C054B WITH AKD-■02406 AT 240 VAC



Notes:
1. At 40°C ambient.
2. Increase Tc by 1.06 times for 25°C ambient.
3. Temperature rise assumes a 18 x 18 x 0.50 inch aluminum mounting plate or equivalent.