



## Ultra™ and Ultra+™ Vertical Hollow Shaft

### Weather Protection I (WPI)

### Premium Efficient

#### Standard Features



Type	Ultra™ WPI VHS	Ultra+™ WPI VHS with bearing fluting protection	Key Differences
HP Range	5 - 1750	15 - 1750	
Poles	2, 4, 6	2, 4	
Voltage	200-230/460, 230/460, 460, 460 PWS, 460/575, 575, 2300, 2300/4000, 4160	230/460, 460, 460 PWS, 575, 2300/4000	
Efficiency	NEMA Premium	NEMA Premium	
Frequency	60 Hz (De-rated at 50 Hz and noted on the nameplate.)	60 Hz (De-rated at 50 Hz and noted on the nameplate.)	
NEMA Design	B	B (select marked ratings are A)	
Agency Approvals	UL - Component and Insulation System Recognition, CSA - Motors	UL - Component and Insulation System Recognition, CSA - Motors	
Altitude	3300 ft	3300 ft	
Ambient	40°C	40°C	
Balance/Vibration	Special Balance = 0.075 IPS	Special Balance = 0.075 IPS	
Bearing Caps	Yes	Yes	
Bearing Protection	Shaft Slinger	Shaft Slinger	
Bearing Type	High Thrust and Extra High Thrust	High Thrust and Extra High Thrust	
Conduit Box	Cast Iron	Cast Iron	
Coupling	Non-Reverse Standard, kitted for Self Release, or Bolted	Non-Reverse Standard, kitted for Self Release, or Bolted	
End Shield	Cast Iron	Cast Iron	
Fasteners	SAE	SAE	
Frame Material	Cast Iron	Cast Iron	
Frame Size	213-5011	254-5813	
Grease/Oil	All Guide and 213-286 Thrust Bearings: Polyrex EM, 324-449 Oil Lubricated Thrust Bearings: ISO 32	All Guide and 213-286 Thrust Bearings: Polyrex EM, 324-509 Oil Lubricated Thrust Bearings: ISO 32	
Ground	Brass Bolt on Frame and in Conduit Box	Brass Bolt on Frame and in Conduit Box	
Insulation Class	H	H	
Insulation System	GEGARD2400, Non-Hygroscopic, Anti-Fungus, 2400Volt at .1microsecond rise time, Exceeds NEMA MG1-31 for variable frequency drives	GEGARD2400, Non-Hygroscopic, Anti-Fungus, 2400Volt at .1microsecond rise time, Exceeds NEMA MG1-31 for variable frequency drives	
Inverter Capabilities	Variable Torque 0-60 Hz w/out non-reverse ratchet & *5-60 Hz w/NRR	Variable Torque 0-60 Hz w/out non-reverse ratchet & *5-60 Hz w/NRR	
Lifting Means	Yes, Integral to Endshield	Yes, Integral to Endshield	
Mounting	Vertical P-Base	Vertical P-Base	
Nameplate	Stainless Steel	Stainless Steel	
Non-Reverse Ratchet Type	Ball Style	Ball Style	
Paint	Grey Epoxyester	Grey Epoxyester	
Relubrication	Yes	Yes	
Rotor	Cast Aluminum	Cast Aluminum	
Service Factor	1.15	1.15	
Shaft Grounding	N/A	15-100HP: Aegis SGR on lower end, 125HP and up: Aegis SGR on lower end and insulated bearing carrier on upper end	*
Space Heater	115 Volt, 60 Hz	115 Volt, 60 Hz	
Temperature Rise	80°C @ 1.0 SF	80°C @ 1.0 SF	
Tests	NEMA Routine only	NEMA Routine only	
Thermostats	N/A	Includes NC Winding Thermostats	*
Time Rating	Continuous	Continuous	
Top Hat	Cast Aluminum	Cast Aluminum	
Warranty	36 months from date of installation or 42 months from date of manufacture, whichever occurs first	36 months from date of installation or 42 months from date of manufacture, whichever occurs first	