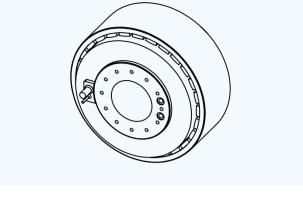
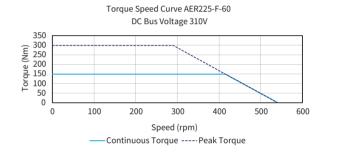


AER225-F-60

Performance Parameters		Symbol	Unit	AER225-F-60
Continuous Torque (WC) @100°C ⁰		T _{cw}	Nm	149.5
Peak Torque		Tpk	Nm	299.0
Torque Constant ±10%		Kt	Nm/Arms	6.5
Back EMF Constant ±10%		Ke	Vpeak/rpm	0.56
Motor Constant @25°C		Km	Nm/Sqrt(W)	5.7
Resistance (L-L) 25°C ±10%		R ₂₅	Ω	0.9
Inductance (L-L) ±20% [€]		L	mH	6.7
Electrical Time Constant		Τ _e	ms	7.8
Continuous Current (WC) @100°C	D	Icw	Arms	23
Peak Current		I _{pk}	Arms	50.6
Continuous Power Dissipation (Wo	C) @100°C	Pcw	W	883.0
Max. Coil Temperature		tmax	°C	100
Thermal Dissipation Constant (WC	<u> </u>	Kthw	W/°C	11.8
Max. Bus Voltage		Ubus	Vdc	600
Pole Number		2р	-	28
Max.Speed [©]		Ω max	rpm	400
Mechanical Parameters				
Overall Mass (WC)		mw	kg	18.5
Rotor Inertia		Jr	kg·m²	8.20E-02
Cooling Parameters				
Water Pressure Drop		ΔP _w	bar	5
Water Flow Rate		Qw	L/min	5
Inlet Water Temperature		tw	°C	20
Other Information				
Insulation Class		Class A (105°C)		
Ambient Temperature	Operation	0°C to 40°C (non-freezing)		
	Storage	-15°C to 70°C (non-freezing)		
A b : a 1 : d : b	Operation	10%RH to 80%RH (non-condensing)		
Ambient Humidity	Storage	10%RH to 90%RH (non-condensing)		
Recommended Ambience		Indoor (no direct sunlight);		



■ Torque-Speed Curve



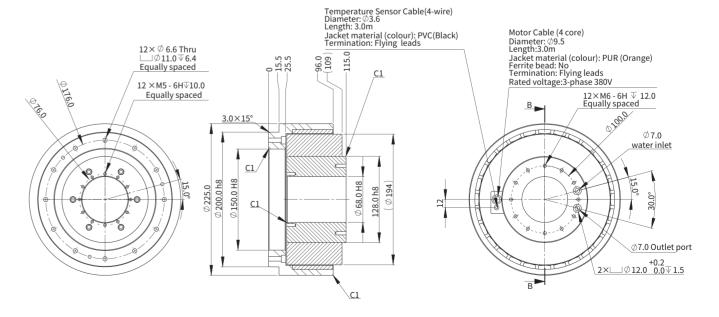
Measurement is taken at ambient temperature 25°C. Value depends on the thermal environment. Abbreviations: WC-Water Cooling.

No corrosive gas, inflammable gas, oil mist or dust.

Resistance is measured by DC current with standard 3 m cable.

- 6 Inductance is measured by current frequency of 1 kHz.
- The value is based on ABI optical SIN/COS encoder (4096x interpolation) under max. bus voltage.
- The contents of datasheet are subject to change without prior notice.

Dimension

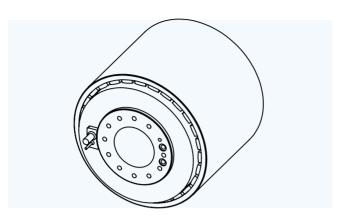


AER225-F-160

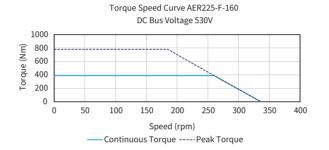
Performance Parameters		Symbol	Unit	AER225-F-160	
Continuous Torque (WC) @100°C		T _{cw}	Nm	389.4	
Peak Torque		Tpk	Nm	778.8	
Torque Constant ±10%		Kt	Nm/Arms	17.7	
Back EMF Constant ±10%		Ke	Vpeak/rpm	1.51	
Motor Constant @25°C		Km	Nm/Sqrt(W)	10.9	
Resistance (L-L) 25°C ±10%€		R ₂₅	Ω	1.8	
Inductance (L-L) ±20%		L	mH	15.9	
Electrical Time Constant		Τ _e	ms	9.0	
Continuous Current (WC) @100°C		Icw	Arms	22	
Peak Current		I _{pk}	Arms	48.4	
Continuous Power Dissipation (WC) @100°C		Pcw	W	1662.8	
Max. Coil Temperature		tmax	°C	100	
Thermal Dissipation Constant (WC)		Kthw	W/°C	22.2	
Max. Bus Voltage		Ubus	Vdc	600	
Pole Number		2p	-	28	
Max.Speed 6		Ω max	rpm	250	
Mechanical Parameters					
Overall Mass (WC)		mw	kg	37	
Rotor Inertia		Jr	kg∙m²	1.50E-01	
Cooling Parameters					
Water Pressure Drop		ΔP _w	bar	5	
Water Flow Rate		Qw	L/min	7	
Inlet Water Temperature		tw	°C	20	
Other Information					
Insulation Class		Class A (105°C)			
Ambient Temperature	Operation	0°C to 40°C (non-freezing)			
	Storage	-15°C to 70°C (non-freezing)			
Ambient Humidity	Operation	10%RH to 80%RH (non-condensing)			
	Storage	10%RH to 90%RH (non-condensing)			
Recommended Ambience		Indoor (no direct sunlight); No corrosive gas, inflammable gas, oil mist or dust.			

- Measurement is taken at ambient temperature 25°C. Value depends on the thermal environment. Abbreviations: WC-Water Cooling.
- Resistance is measured by DC current with standard 3 m cable.
- 6) Inductance is measured by current frequency of 1 kHz.
- The value is based on ABI optical SIN/COS encoder (4096x interpolation) under max. bus voltage.

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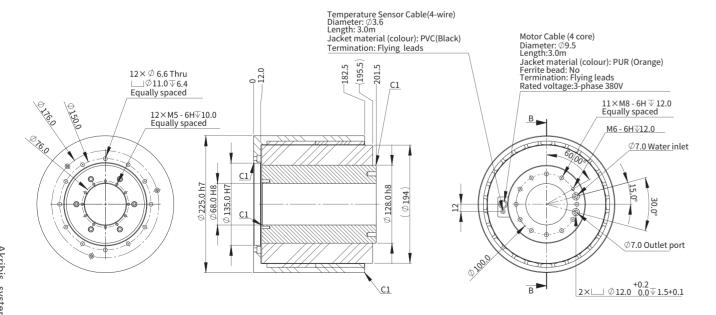


■ Torque-Speed Curve



Dimension

02



Performance Parameters		Symbol	Unit	AER285-F-180
Continuous Torque (WC) @100°C		T _{cw}	Nm	613.8
Peak Torque		Tpk	Nm	1227.6
Torque Constant ±10%		Kt	Nm/Arms	26.1
Back EMF Constant ±10%		Ke	Vpeak/rpm	2.23
Motor Constant @25°C		Km	Nm/Sqrt(W)	17.6
Resistance (L-L) 25°C ±10%		R ₂₅	Ω	1.47
Inductance (L-L) ±20%		L	mH	22.3
Electrical Time Constant		τ _e	ms	15.2
Continuous Current (WC) @100°C		Icw	Arms	23.5
Peak Current		I _{pk}	Arms	50.1
Continuous Power Dissipation (WC) @100°C		P _{cw}	W	1575.7
Max. Coil Temperature		tmax	°C	100
Thermal Dissipation Constant (WC)		K _{thw}	W/°C	21.0
Max. Bus Voltage		Ubus	Vdc	600
Pole Number		2р	-	28
Max.Speed 6		Ω_{max}	rpm	150
Mechanical Parameters				
Overall Mass (WC)		mw	kg	68
Rotor Inertia		Jr	kg·m²	3.90E-01
Cooling Parameters				
Water Pressure Drop		ΔP_w	bar	5
Water Flow Rate		Qw	L/min	7
Inlet Water Temperature		tw	°C	20
Other Information				
Insulation Class		Class A (105°C)		
Ambient Temperature	Operation	0°C to 40°C (non-freezing)		
	Storage	-15°C to 70°C (non-freezing)		
Ambient Humidity	Operation	10%RH to 80%RH (non-condensing)		
	Storage	10%RH to 90%RH (non-condensing)		
Recommended Ambience		Indoor (no direct sunlight); No corrosive gas, inflammable gas, oil mist or dust.		

Measurement is taken at ambient temperature 25°C. Value depends on the thermal environment. Abbreviations: WC-Water Cooling.

No corrosive gas, inflammable gas, oil mist or dust.

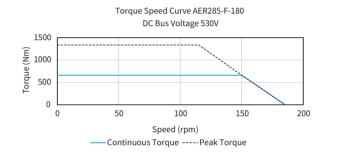
- Resistance is measured by DC current with standard 3 m cable.
- 6 Inductance is measured by current frequency of 1 kHz.
- The value is based on ABI optical SIN/COS encoder (4096x interpolation) under max. bus voltage.

The contents of datasheet are subject to change without prior notice.

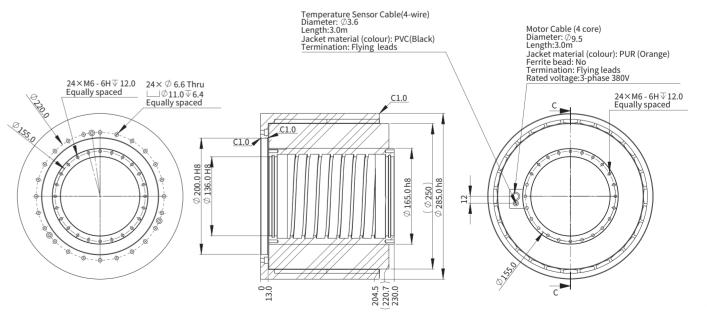
AER285-F-180

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■ Torque-Speed Curve



Dimension



03

AER Series AER Series

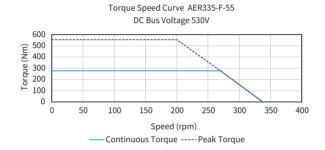
AER335-F-55

Performance Parameters		Symbol	Unit	AER335-F-55	
Continuous Torque (WC) @100°C		T _{cw}	Nm	277.1	
Peak Torque		Tpk	Nm	554.2	
Torque Constant ±10%		Kt	Nm/Arms	17.0	
Back EMF Constant ±10%		Ke	Vpeak/rpm	1.45	
Motor Constant @25°C		Km	Nm/Sqrt(W)	9.3	
Resistance (L-L) 25°C ±10%€		R ₂₅	Ω	2.22	
Inductance (L-L) ±20%		L	mH	22.0	
Electrical Time Constant		Τ _e	ms	9.9	
Continuous Current (WC) @100°C	D	lcw	Arms	16.3	
Peak Current		I _{pk}	Arms	36.7	
Continuous Power Dissipation (WC) @100°C		Pcw	W	1144.9	
Max. Coil Temperature		tmax	°C	100	
Thermal Dissipation Constant (WC)		Kthw	W/°C	15.3	
Max. Bus Voltage		Ubus	Vdc	600	
Pole Number		2р	-	28	
Max.Speed ⁴		Ω max	rpm	250	
Mechanical Parameters					
Overall Mass (WC)		mw	kg	40	
Rotor Inertia		Jr	kg·m²	1.50E-01	
Cooling Parameters					
Water Pressure Drop		ΔP_w	bar	5	
Water Flow Rate		Qw	L/min	6	
Inlet Water Temperature		tw	°C	20	
Other Information					
Insulation Class		Class A (105°C)			
Ambient Temperature	Operation	0°C to 40°C (non-freezing)			
	Storage	-15°C to 70°C (non-freezing)			
Ambient Humidity	Operation	10%RH to 80%RH (non-condensing)			
	Storage	10%RH to 90%RH (non-condensing)			
Recommended Ambience		Indoor (no direct sunlight); No corrosive gas, inflammable gas, oil mist or dust.			

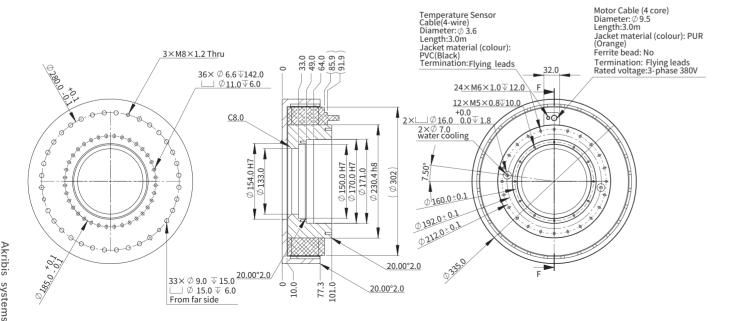
- Measurement is taken at ambient temperature 25°C. Value depends on the thermal environment. Abbreviations: WC-Water Cooling.
- Resistance is measured by DC current with standard 3 m cable.
- ❸ Inductance is measured by current frequency of 1 kHz.
- The value is based on ABI optical SIN/COS encoder (4096x interpolation) under max. bus voltage.

The contents of datasheet are subject to change without prior notice.

■ Torque-Speed Curve



Dimension



Part Numbering

