

Motor Model Number	110-1S_WD0			
Amplifier Model Number	Ideal 340VDC			
Motor Thermal Test Condition	110-1 with Forcer Moving at 2 m/s			
Description	Notes	Symbol	Units	Value
Stall Force Continous	1,2,3	Fcs	N	24.40
Stall Force Continous	1,2,3	Fcs	Lbs	5.5
Stall Current Continous	1,2,3	Ics(rms)	Arms	1.5
Stall Current Continous	1,2,3	Ics(trap)	Amps DC	1.8
Peak Force		Tpk	N	109.06
Peak Force		Tpk	Lbs	24.5
Peak Current		Ipk(rms)	Arms	6.5
Peak Current		Ipk(trap)	Amps DC	8.0
Rated Speed	1,2,3	Sr	m/s	6.81
Rated Force	1,2,3	Fr	N	24.40
Rated Force	1,2,3	Fr	Lbs	5.5
Rated Output Power	1,2,3	Pout	kW	0.166
Current at Rated Speed	1,2,3	Ir	Arms	1.5
Voltage Constant	4,9	Kb	V/m/s	13.64
Voltage Constant	4,9	Ke	Vrms/m/sec	9.64
Force Constant	4,9	Kf (sine)	N/Arms	16.70
Force Constant	4,9	Kf (trap)	Lbs/Amp DC	3.07
Resistance	4,9	R	ohm	11.400
Inductance	5,9	L	mH	3.0
Max DC bus Voltage	6	Vmbus	VDCmax	340
Max AC Voltage	6	Vs	VAC	240
Winding-Amb Thermal Resist	6	Rthw-a	°C/W	1.59
Ambient Temp at Rating		Tamb	°C	25
Max Winding Temp		Tmax	°C	100
Winding Temp at Rating	7	Twr	°C	100
Motor Thermal Time Constant	6	tth	minutes	10.0
Viscous Damping	6	B	N/m/s	0.0000
Dynamic Friction	6	Tf	N	0.0000
Motor Mass	6	Mfr	Kg	0.12
Motor Weight	6	Mfr	Lbs	0.27
Magnet Bar Density		MBw	Lbs/ft	0.60
Magnet Pitch	6	Np	mm	60.96
Motor UL Class		F	UL class	H
Winding Number				WD0
Environmental Protection Rating		IP		IP40

Motor Model Number	110-1P_WD0			
Amplifier Model Number	Ideal 340VDC			
Motor Thermal Test Condition	110-1 with Forcer Moving at 2 m/s			
Description	Notes	Symbol	Units	Value
Stall Force Continous	1,2,3	Fcs	N	24.40
Stall Force Continous	1,2,3	Fcs	Lbs	5.5
Stall Current Continous	1,2,3	Ics(rms)	Arms	2.9
Stall Current Continous	1,2,3	Ics(trap)	Amps DC	3.6
Peak Force		Tpk	N	109.06
Peak Force		Tpk	Lbs	24.5
Peak Current		Ipk(rms)	Arms	13.1
Peak Current		Ipk(trap)	Amps DC	16.0
Rated Speed	1,2,3	Sr	m/s	6.81
Rated Force	1,2,3	Fr	N	24.40
Rated Force	1,2,3	Fr	Lbs	5.5
Rated Output Power	1,2,3	Pout	kW	0.166
Current at Rated Speed	1,2,3	Ir	Arms	2.9
Voltage Constant	4,9	Kb	V/m/s	6.82
Voltage Constant	4,9	Ke	Vrms/m/sec	4.82
Force Constant	4,9	Kf (sine)	N/Arms	8.35
Force Constant	4,9	Kf (trap)	Lbs/Amp DC	1.53
Resistance	4,9	R	ohm	2.850
Inductance	5,9	L	mH	0.8
Max DC bus Voltage	6	Vmbus	VDCmax	340
Max AC Voltage	6	Vs	VAC	240
Winding-Amb Thermal Resist	6	Rthw-a	°C/W	1.59
Ambient Temp at Rating		Tamb	°C	25
Max Winding Temp		Tmax	°C	100
Winding Temp at Rating	7	Twr	°C	100
Motor Thermal Time Constant	6	tth	minutes	10.0
Viscous Damping	6	B	N/m/s	0.0000
Dynamic Friction	6	Tf	N	0.0000
Motor Mass	6	Mfr	Kg	0.12
Motor Weight	6	Mfr	Lbs	0.27
Magnet Bar Density		MBw	Lbs/ft	0.60
Magnet Pitch	6	Np	mm	60.96
Motor UL Class		F	UL class	H
Winding Number				WD0
Environmental Protection Rating		IP		IP40

Motor Model Number	110-2S_WD0			
Amplifier Model Number	Ideal 340VDC			
Motor Thermal Test Condition	110-2 with Forcer Moving at 2 m/s			
Description	Notes	Symbol	Units	Value
Stall Force Continous	1,2,3	Fcs	N	45.65
Stall Force Continous	1,2,3	Fcs	Lbs	10.3
Stall Current Continous	1,2,3	Ics(rms)	Arms	1.4
Stall Current Continous	1,2,3	Ics(trap)	Amps DC	1.7
Peak Force		Tpk	N	204.04
Peak Force		Tpk	Lbs	45.9
Peak Current		Ipk(rms)	Arms	6.1
Peak Current		Ipk(trap)	Amps DC	7.5
Rated Speed	1,2,3	Sr	m/s	6.81
Rated Force	1,2,3	Fr	N	45.65
Rated Force	1,2,3	Fr	Lbs	10.3
Rated Output Power	1,2,3	Pout	kW	0.311
Current at Rated Speed	1,2,3	Ir	Arms	1.4
Voltage Constant	4,9	Kb	V/m/s	27.28
Voltage Constant	4,9	Ke	Vrms/m/sec	19.29
Force Constant	4,9	Kf (sine)	N/Arms	33.41
Force Constant	4,9	Kf (trap)	Lbs/Amp DC	6.13
Resistance	4,9	R	ohm	22.800
Inductance	5,9	L	mH	6.0
Max DC bus Voltage	6	Vmbus	VDCmax	340
Max AC Voltage	6	Vs	VAC	240
Winding-Amb Thermal Resist	6	Rthw-a	°C/W	0.91
Ambient Temp at Rating		Tamb	°C	25
Max Winding Temp		Tmax	°C	100
Winding Temp at Rating	7	Twr	°C	100
Motor Thermal Time Constant	6	tth	minutes	10.0
Viscous Damping	6	B	N/m/s	0.0000
Dynamic Friction	6	Tf	N	0.0000
Motor Mass	6	Mfr	Kg	0.21
Motor Weight	6	Mfr	Lbs	0.47
Magnet Bar Density		MBw	Lbs/ft	0.60
Magnet Pitch	6	Np	mm	60.96
Motor UL Class		F	UL class	H
Winding Number				WD0
Environmental Protection Rating		IP		IP40

Motor Model Number	110-2P_WD0			
Amplifier Model Number	Ideal 340VDC			
Motor Thermal Test Condition	110-2 with Forcer Moving at 2 m/s			
Description	Notes	Symbol	Units	Value
Stall Force Continous	1,2,3	Fcs	N	45.65
Stall Force Continous	1,2,3	Fcs	Lbs	10.3
Stall Current Continous	1,2,3	Ics(rms)	Arms	2.7
Stall Current Continous	1,2,3	Ics(trap)	Amps DC	3.3
Peak Force		Tpk	N	204.04
Peak Force		Tpk	Lbs	45.9
Peak Current		Ipk(rms)	Arms	12.2
Peak Current		Ipk(trap)	Amps DC	15.0
Rated Speed	1,2,3	Sr	m/s	6.81
Rated Force	1,2,3	Fr	N	45.65
Rated Force	1,2,3	Fr	Lbs	10.3
Rated Output Power	1,2,3	Pout	kW	0.311
Current at Rated Speed	1,2,3	Ir	Arms	2.7
Voltage Constant	4,9	Kb	V/m/s	13.64
Voltage Constant	4,9	Ke	Vrms/m/sec	9.64
Force Constant	4,9	Kf (sine)	N/Arms	16.70
Force Constant	4,9	Kf (trap)	Lbs/Amp DC	3.07
Resistance	4,9	R	ohm	5.700
Inductance	5,9	L	mH	1.5
Max DC bus Voltage	6	Vmbus	VDCmax	340
Max AC Voltage	6	Vs	VAC	240
Winding-Amb Thermal Resist	6	Rthw-a	°C/W	0.91
Ambient Temp at Rating		Tamb	°C	25
Max Winding Temp		Tmax	°C	100
Winding Temp at Rating	7	Twr	°C	100
Motor Thermal Time Constant	6	tth	minutes	10.0
Viscous Damping	6	B	N/m/s	0.0000
Dynamic Friction	6	Tf	N	0.0000
Motor Mass	6	Mfr	Kg	0.21
Motor Weight	6	Mfr	Lbs	0.47
Magnet Bar Density		MBw	Lbs/ft	0.60
Magnet Pitch	6	Np	mm	60.96
Motor UL Class		F	UL class	H
Winding Number				WD0
Environmental Protection Rating		IP		IP40

Motor Model Number	110-2T_WD0			
Amplifier Model Number	Ideal 340VDC			
Motor Thermal Test Condition	110-2 with Forcer Moving at 2 m/s			
Description	Notes	Symbol	Units	Value
Stall Force Continous	1,2,3	Fcs	N	45.65
Stall Force Continous	1,2,3	Fcs	Lbs	10.3
Stall Current Continous	1,2,3	Ics(rms)	Arms	4.1
Stall Current Continous	1,2,3	Ics(trap)	Amps DC	5.0
Peak Force		Tpk	N	204.04
Peak Force		Tpk	Lbs	45.9
Peak Current		Ipk(rms)	Arms	18.3
Peak Current		Ipk(trap)	Amps DC	22.4
Rated Speed	1,2,3	Sr	m/s	6.81
Rated Force	1,2,3	Fr	N	45.65
Rated Force	1,2,3	Fr	Lbs	10.3
Rated Output Power	1,2,3	Pout	kW	0.311
Current at Rated Speed	1,2,3	Ir	Arms	4.1
Voltage Constant	4,9	Kb	V/m/s	9.09
Voltage Constant	4,9	Ke	Vrms/m/sec	6.43
Force Constant	4,9	Kf (sine)	N/Arms	11.14
Force Constant	4,9	Kf (trap)	Lbs/Amp DC	2.04
Resistance	4,9	R	ohm	2.533
Inductance	5,9	L	mH	0.7
Max DC bus Voltage	6	Vmbus	VDCmax	340
Max AC Voltage	6	Vs	VAC	240
Winding-Amb Thermal Resist	6	Rthw-a	°C/W	0.91
Ambient Temp at Rating		Tamb	°C	25
Max Winding Temp		Tmax	°C	100
Winding Temp at Rating	7	Twr	°C	100
Motor Thermal Time Constant	6	tth	minutes	10.0
Viscous Damping	6	B	N/m/s	0.0000
Dynamic Friction	6	Tf	N	0.0000
Motor Mass	6	Mfr	Kg	0.21
Motor Weight	6	Mfr	Lbs	0.47
Magnet Bar Density		MBw	Lbs/ft	0.60
Magnet Pitch	6	Np	mm	60.96
Motor UL Class		F	UL class	H
Winding Number				WD0
Environmental Protection Rating		IP		IP40