



Size 11 Brushless Resolver

Control Transmitters

AMCI Part #	Compatible Part #	Speed	Transformation Ratio	Freq.
R11X-A10/7	Harowe #11BRCX-300-A	1	0.54	4000
R11X-C10/7	Harowe #11BRCX-300-C/10	1	0.45	1000
R11X-C12/7	-	1	0.45	1000
R11X-E10/7	Harowe #11BRCX-300-E	1	0.98	2500
R11X-F10/7	Harowe #11BRCX-300-F/7	1	0.50	2500
R11X-G10/7	Harowe #11BRCX-300-G	1	0.45	400
R11X-J10/3	Harowe #11BRCX-300-J/3	1	0.95	5000
R11X-J10/5	Harowe #11BRCX-300-J/5	1	0.95	5000
R11X-J10/7	Harowe #11BRCX-300-J/7	1	0.95	5000
R11X-J10/7N*	Harowe #11BRCX-304-J8IT	1	0.95	5000
R11X-J12/7	-	1	0.95	5000
R11X-2J10/20	Harowe #11BRCX-300-M	2	0.95	5000
R11X-4J10/20	-	4	0.95	5000
R11X-L10/6	Harowe #R11-S01F-1A or Kearfott #CR41093052-XX	1	1.40	2250
R11X-N10/7	Harowe #11BRCX-300-N	1	1.00	1000
R11X-4T10/7	-	4	0.55	1000

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R11X-A10/7	Harowe #11BRCX-300-A	1	0.54	4000
R11X-C10/7	Harowe #11BRCX-300-C/10	1	0.45	1000
R11X-C12/7	-	1	0.45	1000
R11X-E10/7	Harowe #11BRCX-300-E	1	0.98	2500
R11X-F10/7	Harowe #11BRCX-300-F/7	1	0.50	2500
R11X-G10/7	Harowe #11BRCX-300-G	1	0.45	400
R11X-J10/3	Harowe #11BRCX-300-J/3	1	0.95	5000
R11X-J10/5	Harowe #11BRCX-300-J/5	1	0.95	5000
R11X-J10/7	Harowe #11BRCX-300-J/7	1	0.95	5000
R11X-J10/7N*	Harowe #11BRCX-304-J8IT	1	0.95	5000
R11X-J12/7	-	1	0.95	5000
R11X-2J10/20	Harowe #11BRCX-300-M	2	0.95	5000
R11X-4J10/20	-	4	0.95	5000
R11X-L10/6	Harowe #R11-S01F-1A or Kearfott #CR41093052-XX	1	1.40	2250
R11X-N10/7	Harowe #11BRCX-300-N	1	1.00	1000
R11X-4T10/7	-	4	0.55	1000

*unit is radiation hardened

Control Transformers

AMCI Part #	Compatible Part #	Speed	Transformation Ratio	Freq.
R11W-B10/7	Harowe #11BRW-300-B	1	1.75	400
R11W-C10/7	Harowe #11BRW-300-C	1	1.93	400
R11W-F10/7	Harowe #11BRW-300-F/10 or Kearfott #CR41095004	1	0.50	2500
R11W-2F10/7	Harowe #11BRCT-300-F	2	0.50	2500
R11W-2F10/10	-	2	0.50	2500
R11W-M10/7	Harowe #11BRW-300-M	1	0.50	5000

Control Transformers

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R11W-B10/7	Harowe #11BRW-300-B	1	1.75	400
R11W-C10/7	Harowe #11BRW-300-C	1	1.93	400
R11W-F10/7	Harowe #11BRW-300-F/10 or Kearfott #CR41095004	1	0.50	2500
R11W-2F10/7	Harowe #11BRCT-300-F	2	0.50	2500

R11W-2F10/10	-	2	0.50	2500
R11W-M10/7	Harowe #11BRW-300-M	1	0.50	5000

Specifications

Mechanical Specifications

R11 - Size 11 Brushless Resolver Sensors		
Shaft Loading:	0.1200" shaft: 2 lbs. radial / 1 lbs. axial maximum shaft loading 0.1875" shaft: 6 lbs. radial / 3 lbs. axial maximum shaft loading 0.2500" shaft: 6 lbs. radial / 3 lbs. axial maximum shaft loading'	
	Bearing life rated at 2×10^9 revolutions minimum at maximum shaft load.	
Starting torque:	Standard resolvers: 0.08 oz-in @ 25°C IP67 resolvers: 0.40 oz-in @ 25°C	
Moment of inertia:	0.51 X 10^{-4} oz-in-sec ²	
Weight:	Standard Resolvers: 0.25 lbs. IP67 Resolvers: 0.40 lbs.	
Wiring information:	Standard wire colors: R1: Red with White Stripe R2: Black with White Stripe* S1: Red S3: Black S2: Yellow S4: Blue R1-R2: Reference Winding S1-S3: Sine Winding S2-S4: Cosine Winding *Note: Some resolver manufacturers use a Yellow wire with a White Stripe for the R2 signal.	Radiation hardened wire colors: R1: Red R2: Black S1: White S3: Green S2: Yellow S4: Blue

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	Bearing life rated at 2×10^9 revolutions minimum at maximum shaft	

	load.	
Starting torque:	Standard resolvers: 0.08 oz-in @ 25°C IP67 resolvers: 0.40 oz-in @ 25°C	
Moment of inertia:	0.51 X 10 ⁻⁴ oz-in-sec ²	
Weight:	Standard Resolvers: 0.25 lbs. IP67 Resolvers: 0.40 lbs.	
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ELECTRICAL SPECIFICATIONS (R11 Control Transmitters)

Function and Model No.	Input Voltage and Freq.	Pri.	Input Current (mA) (Max.)	Input Power (mW) (Max.)	Output Voltage (V)	TR	ZRO (ohms)	ZRS (ohms)	ZsO (ohms)	ZSS (ohms)	Phase Shift (Deg Lead)
-----1 Speed-----											
R11X-A10/7	7.5 V 4000 Hz	R	16	87	4.0	0.54	220+ j206	134+ j173	197+ j244	114+ j196	-2
R11X-C10/7	6.0V 1000 Hz	R	25	104	2.7	0.45	106+ j109	87+ j78	95+ j72	78+ j50	6
R11X-E10/7	9.0V 2500 Hz	R	6	30	8.9	0.98	880+ j995	460+ j700	1660+ j2480	740+ j1470	-2
R11X-F10/7	7.0V 2500 Hz	R	18	90	3.5	0.50	175+ j170	108+ j121	165+ j182	100+ j128	6
R11X-G10/7-1	26.0V 400 Hz	R	50	700	11.8	0.45	250+ j350	266+ j270	420+ j260	414+ j180	14
	7.0V						210+ j210	110+ j110	112+ j112	170+ j170	

R11X-J10/7	5000 Hz	R	23	90	6.65	0.95	240+ j245	110+ j173	412+ j590	170+ j394	-6
R11X-L10/6	1.88V 2250 Hz	R	8	10	2.6	1.4	166+ j190	90+ j107	620+ j890	630+ j500	5
R11X-N10/7	8.5V 1000 Hz	R	18	97	8.5	1.0	220+ j350	190+ j192	230+ j890	231+ j896	6

-----2 Speed-----

R11X-2J10/20	7.0V 5000 Hz	R	22	95	6.65	0.95	200+ j235	160+ j192	480+ j1980	480+ j1950	-6
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4 Speed

R11X-4J10/20	7.0V 5000 Hz	R	20	70	6.65	0.95	160+ j270	140+ j250	610+ j2700	600+ j2680	4
R11X-4T10/7	7.0V 5000 Hz	R	25	100	3.9	0.55	155+ j250	140+ j220	230+ j960	230+ j950	6

ELECTRICAL SPECIFICATIONS (R11 Control Transmitters)

Function and Model No.	Input Voltage and Freq.	Pri.	Input Current (mA) (Max.)	Input Power (mW) (Max.)	Output Voltage (V)	TR	ZRO (ohms)	ZRS (ohms)	ZsO (ohms)	ZSS (ohms)	Phase Shift (Deg Lead)
-----1 Speed-----											
R11X-A10/7	7.5 V 4000 Hz	R	16	87	4.0	0.54	220+ j206	134+ j173	197+ j244	114+ j196	-2
R11X-C10/7	6.0V 1000 Hz	R	25	104	2.7	0.45	106+ j109	87+ j78	95+ j72	78+ j50	6
R11X-E10/7	9.0V 2500 Hz	R	6	30	8.9	0.98	880+ j995	460+ j700	1660+ j2480	740+ j1470	-2
R11X-F10/7	7.0V 2500 Hz	R	18	90	3.5	0.50	175+ j170	108+ j121	165+ j182	100+ j128	6
R11X-G10/7-1	26.0V 400 Hz	R	50	700	11.8	0.45	250+ j350	266+ j270	420+ j260	414+ j180	14
R11X-J10/7	7.0V 5000 Hz	R	23	90	6.65	0.95	240+ j245	110+ j173	412+ j590	170+ j394	-6

R11X-L10/6	1.88V 2250 Hz	R	8	10	2.6	1.4	166+ j190	90+ j107	620+ j890	630+ j500	5
R11X-N10/7	8.5V 1000 Hz	R	18	97	8.5	1.0	220+ j350	190+ j192	230+ j890	231+ j896	6

-----2 Speed-----

R11X- 2J10/20	7.0V 5000 Hz	R	22	95	6.65	0.95	200+ j235	160+ j192	480+ j1980	480+ j1950	-6
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4 Speed

R11X- 4J10/20	7.0V 5000 Hz	R	20	70	6.65	0.95	160+ j270	140+ j250	610+ j2700	600+ j2680	4
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R11X- 4T10/7	7.0V 5000 Hz	R	25	100	3.9	0.55	155+ j250	140+ j220	230+ j960	230+ j950	6
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ELECTRICAL SPECIFICATIONS (Control Transformers)

Function and Model No.	Input Voltage and Freq.	Pri.	Input Current (mA) (Max.)	Input Power (mW) (Max.)	Output Voltage (V)	TR	ZRO (ohms)	ZRS (ohms)	ZsO (ohms)	ZSS (ohms)	Phase Shift (Deg. Leadin
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-----1 Speed-----

R11W- B10/7-1	12.0V 400 Hz	S	17	70	21.0	1.75	2130+ j3840	2666+ j1900	460+ j770	555+ j370	12
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R11W-C10/7	12.0V 400 Hz	S	9	45	23.0	1.93	5900+ j8600	5700+ j3900	550+ j1150	640+ j620	12
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R11W-F10/7	12.0V 2500 Hz	S	10	21	6.0	0.50	430+ j740	260+ j450	530+ j1230	370+ j740	5
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R11W-M10/7	10.0V 5000 Hz	S	13	84	5.0	0.50	215+ j250	109+ j193	294+ j516	140+ j333	-7
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-----2 Speed-----

R11W- 2F10/10	12.0V 2500 Hz	S	15	80	6.0	0.50	720+ j1130	530+ j820	540+ j1400	400+ j1020	-4
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R11W-C10/7	12.0V 400 Hz	S	9	45	23.0	1.93	5900+ j8600	5700+ j3900	550+ j1150	640+ j620	12
R11W-F10/7	12.0V 2500 Hz	S	10	21	6.0	0.50	430+ j740	260+ j450	530+ j1230	370+ j740	5
R11W-M10/7	10.0V 5000 Hz	S	13	84	5.0	0.50	215+ j250	109+ j193	294+ j516	140+ j333	-7
-----2 Speed-----											
R11W-2F10/10	12.0V 2500 Hz	S	15	80	6.0	0.50	720+ j1130	530+ j820	540+ j1400	400+ j1020	-4


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