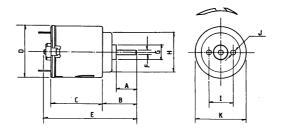


MINIATURE D.C. MOTORS

RE - 140 (3 POLE) & RE - 140/1



PT.NO. 457 RE 140 (WITH BRACKET). PT.NO. 719 RE 140 (WITHOUT BRACKET) PT.NO. 457 RE 140/1 (WITH BRACKET) PT.NO. 719 RE 140/1 (WITHOUT BRACKET) PT.NO. 724 MOTOR BRACKET (900 ONLY)



Weight 20g (approx)

DIMENSIONS	Α	В	С	D	E	F	G	н	I	J	к
MILLIMETER	8.3	14.0	21.0	21.0	38.0	2.0	6.15	16.0	10.0	2.0	20.15
DECIMAL INCHES	0.33	0.55	0.827	0.827	1.496	0.079	0.242	0.63	0.394	0.079	0.793

	VOLT	AGE	NO L	.OAD		AT N	IAXIMUM	EFFICIEN	ICY		STA	\LL
MODEL	OPERATING		SPEED	CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE
	RANGE	NOMINAL	R.P.M.	A	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
RE - 140	1.5 - 3.0	1.5v CONSTANT	8200	0.190	6250	0.62	0.089	6.4	0.400	44.2	0.375	27.0
RE - 140	1.5 - 3.0	3.0v CONSTANT	14000	0.230	11300	0.96	1.444	10.4	1.210	42.0	0.750	54.0
RE - 140/1	3.0 - 9.0	6v CONSTANT	9200	0.066	7071	0.219	0.11	8.1	0.589	44.79	0.48	35.1

Stall Current RE140 at 3v = 3.41A



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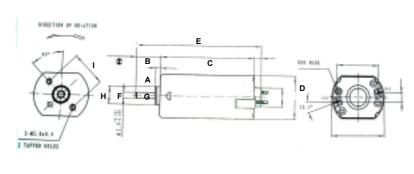
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RE - 170 (3 POLE)



PT.NO. 457 RE 170 (WITH BRACKET). PT.NO. 719 RE 170 (WITHOUT BRACKET) PT.NO. 724. MOTOR BRACKET (90o ONLY)



Weight 29g (approx)

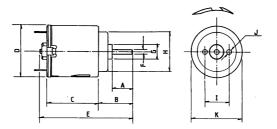
DIMENSIONS	Α	В	С	D	E	F	G	н	I	J	к
MILLIMETER	6.7	8.3	32.0	18.7	42.7	2.0	6.5	14.5	M2	12.0	450
DECIMAL INCHES	0.26	0.33	1.26	0.74	1.68	0.08	0.24	0.57		0.47	

	VOLT	TAGE	NO L	.OAD		AT M	IAXIMUM	EFFICIEN	CY		STA	ALL
MODEL	OPERATING		SPEED	CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE
	RANGE	NOMINAL	R.P.M.	Α	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
RE - 170	1.5 - 3.0	3.0v CONSTANT	10400	0.17	8870	1.03		27	2.47	79.9		184.0

RE - 260 (3 POLE)



PT.NO. 457 RE 260 (WITH BRACKET). PT.NO. 719 RE 260 (WITHOUT BRACKET) PT.NO. 724 MOTOR BRACKET (900 ONLY)



Weight 29g (approx)

DIMENSIONS	Α	В	С	D	E	F	G	Н	ı	J	К
MILLIMETER	8.2	11.3	23.5	23.7	42.0	2.0	6.1	19.1	11.5	2.3	23.7
DECIMAL INCHES	0.32	0.44	0.93	0.93	1.65	0.079	0.24	0.75	0.45	0.09	0.93

	VOLT	TAGE	NO L	.OAD		AT M	IAXIMUM	EFFICIEN	ICY		STA	\LL
MODEL	OPERATING		CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE			
	RANGE	NOMINAL	R.P.M.	A	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
RE - 260	3.0 - 6.0	3.0v CONSTANT	4242	0.042	3296	0.151		6.8	0.345	33.91		30.61
RE - 260	3.0 - 6.0	4.5v CONSTANT	6360	0.065	4942	0.227		10.2	0.518	50.84		45.9
RE - 260	3.0-6.0	6.0v CONSTANT	8478	0.087	6587	0.302		13.6		31.5		61.84

Stall Current RE260 at 4.5v = 0.79A



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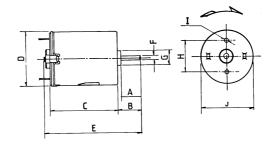
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RE - 280 (3 POLE) & RE - 280/1 & RE-280/5



PT.NO. 457 RE 280 (WITH BRACKET)
PT.NO. 457 RE 280/1 (WITH BRACKET)
PT. NO. 457 RE 280/5 (WITH BRACKET)
PT.NO. 719 RE 280 (WITHOUT BRACKET)
PT.NO. 719 RE 280/1 (WITHOUT BRACKET)
PT. NO. 719 RE 280/5 (WITHOUT BRACKET)
PT.NO. 724 MOTOR BRACKET (900 ONLY)



Weight 44g (approx)

	DIMENSIONS	A	В	С	D	Е	F	G	Н	_	J	К
RE 280,	MILLIMETER	7.40	12.0	30.5	23.8	42.0	2.0	6.35	14.0	2.3	24.2	
RE 280/1 RE 280/5	DECIMAL INCHES	0.41	0.472	1.201	0.937	1.65	0.078	0.250	0.551	0.090	0.953	

	VOLT	AGE	NO I	_OAD		AT M	IAXIMUM	EFFICIEN	ICY		STA	ALL
MODEL	OPERATING		SPEED	CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE
	RANGE	NOMINAL	R.P.M.	Α	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
RE - 280	1.5 - 3.0	1.5v CONSTANT	4600	0.120	3750	0.53	0.160	11.53	0.44	56.2	0.86	62.0
RE - 280	1.5 - 3.0	3.0v CONSTANT	9200	0.155	7800	0.85	0.278	20.00	1.60	62.3	1.81	130.0
RE - 280/1	12 - 24	12v CONSTANT	8400	0.10	6300	0.30	0.347	25.00	1.62	44.87	1.389	100.0
RE - 280/5	3 - 6	6v CONSTANT	9280	0.108	7664	0.51	0.347	25.00	1.99	64.85	2.02	100.0

Stall Current RE280 at 1.5v = 2.41A

RE - 360 (3 POLE) & RE - 360/1



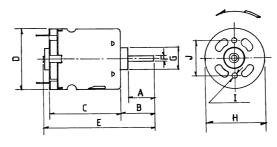
Pt. No. 457 RE 360 (with Bracket)

Pt. No. 719 RE 360 (without Bracket)

Pt. No. 457 RE 360/1 (with bracket)

Pt. No. 719 RE 360/1 (without bracket)

Pt. No. 725 Motor Bracket (90o only)



Weight 51g (approx)

DIMENSIONS	Α	В	С	D	E	F	G	Н	ı	J	K
MILLIMETER	8.2	11.5	32.5	27.63	47.0	2.305	10.0	27.5	M2.6	16.0	
DECIMAL INCHES	0.323	0.453	1.28	1.088	1.85	0.091	0.394	1.083		0.63	

	VOLT	TAGE	NO L	.OAD		AT N	IAXIMUM	EFFICIEN	ICY		STA	\LL
MODEL	OPERATING		SPEED	CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE
	RANGE	NOMINAL	R.P.M.	Α	R.P.M.	Α		g - cm	w	%	oz - in	g - cm
RE - 360	6 - 15	12v CONSTANT	11370	0.151	9511	0.77		58.8	5.75	61.94		360.0

Stall Current RE360 at 12v = 3.95A



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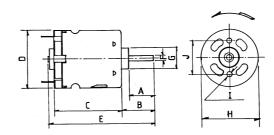
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RE - 380 (3 POLE)



Pt. No. 457 RE 380 (with Bracket) Pt. No. 719 RE 380 (without Bracket) Pt. No. 725 Motor Bracket (90o only)



Weight 69g (approx)

DIMENSIONS	Α	В	С	D	E	F	G	Н	I	J	К
MILLIMETER	12.5	16.0	38.0	27.7	57.0	2.30	10.0	27.5	M2.6	16.0	
DECIMAL INCHES	0.492	0.630	1.496	1.091	2.244	0.091	0.394	1.083		0.630	

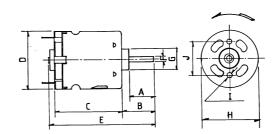
		VOLT	TAGE	NO L	.OAD		AT M	AXIMUM	EFFICIEN	CY		STA	\LL
	MODEL	DPERATING -		SPEED	CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE
		RANGE	NOMINAL	R.P.M.	Α	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
ĺ	RE - 380	3.0 - 7.2	7.2v CONSTANT	26000	1.000	19000	4.41	5.000	375.00	19.68	62.0	30.000	594.8

Stall Current RE380 at 7.2v = 25.19A

RE - 385 (5 POLE)



Pt. No. 457 RE 385 (with Bracket) Pt. No. 719 RE 385 (without Bracket) Pt. No. 725 Motor Bracket (90o only)



Weight 66g (approx)

DIMENSIONS	Α	В	С	D	E	F	G	Н	I	J	К
MILLIMETER	11.5	15.0	38.0	27.7	56.0	2.305	10.0	27.5	M2.6	16.0	
DECIMAL INCHES	0.453	0.591	1.496	1.091	2.205	0.091	0.394	1.083		0.630	

		VOLT	AGE	NO L	.OAD		AT M	IAXIMUM	EFFICIEN	CY		STA	\LL
l	MODEL	ODEDATING	PERATING		CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE
		RANGE		R.P.M.	Α	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
ĺ	RE - 385	6.0 - 15.0	12v CONSTANT	11646	0.18	9869	0.99		78.4	7.98	66.1		513.5

Stall Current RE385 at 12v = 4.62A



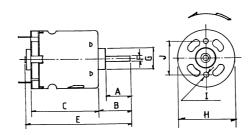
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RE - 385LN (5 POLE). NOISE ATTENUATED



Pt. No. 457 RE 385LN (with Bracket) Pt. No. 719 RE 385LN (without Bracket) Pt. No. 725 Motor Bracket (90o only)



Weight 110g (approx)

DIMENSIONS	Α	В	С	D	E	F	G	Н	I	J	к
MILLIMETER	6	8.5	46.5		57.3	2.3	10.0	29	М 3	16.0	
_											

Ī		VOLT	AGE	NO L	.OAD		AT M	IAXIMUM	EFFICIEN	CY		STA	\LL
	MODEL	ODEDATING	PERATING		CURRENT	SPEED	CURRENT	TOR	QUE	OUTPUT	EFF	TOR	QUE
		RANGE	NOMINAL	R.P.M.	Α	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
ĺ	RE - 385LN	6.0 - 12.0	12v CONSTANT	7300	0.15	5950	0.9		110	7	65		660

Stall Current RE385 at 12v = 4.62A



Weight 148g (approx)

DIMENSIONS	A	В	С	D	E	F	G	Н	I	J	к
MILLIMETER	8.5	13.0	50.0	35.8	67.0	3.175	13.0	35.7	М3	25.0	
DECIMAL INCHES	0.335	0.512	1.969	1.409	2.638	0.125	0.512	1.406		0.984	

	VOLT	AGE	NO L	.OAD		AT M	AXIMUM	EFFICIEN	ICY		STA	\LL
MODEL	ODEDATING	RATING NOMINAL		CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE
	RANGE	NOMINAL	R.P.M.	A	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
RE - 540	3.0 - 9.0	3.6v CONSTANT	8400	0.80	8350	5.71	1.87	135	11.6	56.4	10.8	780
RE - 540	3.0 - 9.0	6.0v CONSTANT	14000	1.00	10800	7.10	3.5	254	28.1	66.0	26.4	1900

Stall Current RE540 at 6v = 28.87A



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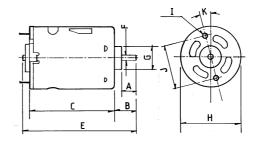
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RE - 540LN (3 POLE). NOISE ATTENUATED



Pt. No. 457 RE 540LN (with Bracket) Pt. No. 719 RE 540LN (without Bracket) Pt. No. 726 Motor Bracket (90o only)



Weight 212g (approx)

DIMENSIONS	Α	В	С	D	Е	F	G	Н	_	J	к
MILLIMETER	5.5	9.75	57.1		69.2	3.0	14.0	37	М3	25.0	
_											

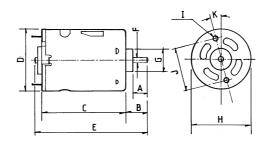
	VOLT	AGE	NO L	.OAD		AT M	AXIMUM	EFFICIEN	CY		STA	\LL
MODEL	OPERATING		SPEED	CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE
	RANGE	NOMINAL	R.P.M.	Α	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
RE - 540LN	6.0 - 12.0	12v CONSTANT	6000	0.25	4930	1.6		250	12.8	67		1500

Stall Current RE540 at 6v = 28.87A

RE - 540/1 (3 POLE)



Pt. No. 457 RE 540/1 (with Bracket) Pt. No. 719 RE 540/1 (without Bracket) Pt. No. 726 Motor Bracket (900 only)



24 volt versions are available for this range of motors. Performance data is similar to 12 volt versions. This version also has an extended 10mm rear shaft to accommodate motor encoders.

Pt. No's 457RE540124V 719RE540124V

Weight 146g (approx)

DIMENSIONS	Α	В	С	D	E	F	G	н	I	J	K
MILLIMETER	9.0	13.5	50.0	35.8	68.0	3.175	13.0	35.7	М3	25.0	
DECIMAL INCHES	0.354	0.531	1.969	1.409	2.67	0.125	0.512	1.406		0.984	

I		VOLT	AGE	NO L	.OAD		AT M	AXIMUM	EFFICIEN	ICY		STA	\LL
	MODEL	OPERATING		SPEED	CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE
		RANGE	NOMINAL	R.P.M.	A	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
	DE 540/4	45 450	6.0v CONSTANT	7500	0.45	6180	2.1	1.64	118.2	7.49	59.4	9.31	670
	RE - 540/1	4.5 - 15.0v	12.0v CONSTANT	15800	0.52	13360	2.85	2.14	154.4	21.2	61.9	13.9	1000

Stall Current RE540/1 at 6v = 8.24A



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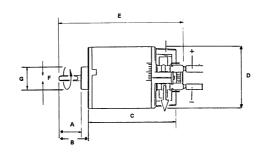
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RE - 700 (3 POLE) Ball raced motor



Pt. No. 457 RE 700 (with Bracket) Pt. No. 719 RE 700 (without Bracket) Pt. No. 726 Motor Bracket (900 only)



Weight 178g (approx)

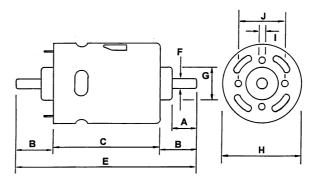
DIMENSIONS	A	В	С	D	E	F	G	Н	I	J	K
MILLIMETER	12.45	16.45 5	0.0 3	6.6 70.	0 3.16	5 13.0	36.6	M2.5x5	24.0		
DECIMAL INCHES											

·	VOLT	AGE	NO L	.OAD		AT M	AXIMUM	EFFICIEN	ICY		STA	\LL
MODEL	OPERATING		SPEED	CURRENT	SPEED	CURRENT	TOR	QUE	ОИТРИТ	EFF	TOR	QUE
	RANGE	NOMINAL	R.P.M.	Α	R.P.M.	Α	oz - in	g - cm	w	%	oz - in	g - cm
RE700	6.0 - 8.4	v 7.2v consta	nt 22500	2.4	15600	10.3			65	75.0		

RE - 800 (3 POLE)



Pt. No. 457 RE 800 (with Bracket) Pt. No. 719 RE 800 (without Bracket) Pt. No. 1114/2 Motor Bracket (900 only)



Weight 595g (approx)

DIMENSIONS	Α	В	С	D	E	F	G	Н	ı	J	к
MILLIMETER	13.2	20.5	69.0		110.0	6.35	21.75	51.8	M5	32.0	
DECIMAL INCHES	0.520	0.810	2.720		4.330	0.250	0.860	2.040		1.260	

MODEL	<u> </u>	VOLT	TAGE	NO L	.OAD		AT M	AXIMUM	EFFICIEN	FFICIENCY			LL
	OPERATING		SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	TORQUE		
		RANGE	NOMINAL	R.P.M.	A	R.P.M.	.P.M. A oz - in	mN-m	w	%	oz - in	mN-m	
	RE - 800	12.0v	12.0v CONSTANT	5167	1.058	4289	5.28		82.08	36.88	58.2		482.8

Stall Current RE800 at 12v = 25.86A



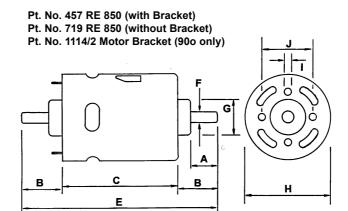
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RE - 850 (3 POLE)





Weight 595g (approx)

DIMENSIONS	Α	В	С	D	E	F	G	Н	I	J	К
MILLIMETER	13.2	20.5	69.0		110.0	6.350	21.75	51.8	M5	32.0	
DECIMAL INCHES	0.520	0.810	2.720		4.330	0.250	0.860	2.040		1.260	

	VOLT	TAGE	NO L	.OAD		AT M	AXIMUM	EFFICIEN	ICY	STALL		
MODEL	OPERATING RANGE		SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	TOR	QUE
		NOMINAL	R.P.M.	Α	R.P.M.	Α	oz - in	mN-m	w	%	oz - in	mN-m
RE - 850	12.0v	12.0v CONSTANT	9778	1.90	8311	10.82		92.13	80.16	61.74		614

Stall Current RE850 at 12v = 61.34A