

Select motor:

1) CIM 6) FP0673 d) FP2719 f) FP9012 g) FP9015 h) FP9013 j) MiniCIM
a) am-0912 b) am-0914 7) DensoL 8) DensoR c) Denso0160 k) BAG u) UserDefined
2) RS395 3) RS540 4) RS550 e) RS775-12 5) RS775-18 m) RS555 n) am-0915
r) am-2193 s) am-2235 t) RS390 v) RS545 p) am-2161&2194
w) VEX2177hi z) VEX2177std 5

M7-RS775-18 @ 12.00 volts:

@ free (no load):

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
0.0	0.000	13000	100.0	1.8	0.0	21.6	0.0

@ stall:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
112.8	0.797	0	0.0	86.7	0.0	1040.4	0.0

@ max power:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
56.4	0.398	6500	50.0	44.3	271.2	259.8	51.1

@ max efficiency:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
14.2	0.100	11363	87.4	12.5	119.4	30.5	79.7

Select input:

1) oz-in 7) watts_in 3) rpm 5) amps b) rpm&s 8) eff%
2) Nm 6) watts_out 4) rpm% 9) volts a) rpm&ozin m) main menu x) exit 9

enter motor voltage: 7.5

M7-RS775-18 @ 7.50 volts:

@ free (no load):

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
0.0	0.000	8125	100.0	1.1	0.0	8.4	0.0

@ stall:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
70.5	0.498	0	0.0	54.2	0.0	406.4	0.0

@ max power:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
35.3	0.249	4063	50.0	27.7	105.9	101.5	51.1

@ max efficiency:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
8.9	0.063	7102	87.4	7.8	46.6	11.9	79.7

Select input:

1) oz-in 7) watts_in 3) rpm 5) amps b) rpm&s 8) eff%
2) Nm 6) watts_out 4) rpm% 9) volts a) rpm&ozin m) main menu x) exit 5

enter amps: 45

M7-RS775-18 @ 7.50 volts:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
58.3	0.412	1407	17.3	45.0	60.7	276.8	18.0

Select input:

1) oz-in 7) watts_in 3) rpm 5) amps b) rpm&s 8) eff%
2) Nm 6) watts_out 4) rpm% 9) volts a) rpm&ozin m) main menu x) exit

Select motor:

1) CIM 6) FP0673 d) FP2719 f) FP9012 g) FP9015 h) FP9013 j) MiniCIM
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r) am-2193 s) am-2235 t) RS390 v) RS545 p) am-2161&2194
w) VEX2177hi z) VEX2177std i)

miniCIM VEX 217-3371 @ 12.00 volts:

@ free (no load):

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
0.0	0.000	6200	100.0	1.5	0.0	18.0	0.0

@ stall:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
198.4	1.401	0	0.0	86.0	0.0	1032.0	0.0

@ max power:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
99.2	0.701	3100	50.0	43.8	227.4	297.6	43.3

@ max efficiency:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
23.1	0.163	5477	88.3	11.4	93.7	42.5	68.8

Select input:

1) oz-in 7) watts_in 3) rpm 5) amps b) rpm&s 8) eff%
2) Nm 6) watts_out 4) rpm% 9) volts a) rpm&ozin m) main menu x) exit 9

enter motor voltage: 7.5

miniCIM VEX 217-3371 @ 7.50 volts:

@ free (no load):

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
0.0	0.000	3875	100.0	0.9	0.0	7.0	0.0

@ stall:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
124.0	0.876	0	0.0	53.8	0.0	403.1	0.0

@ max power:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
62.0	0.438	1938	50.0	27.3	88.8	116.2	43.3

@ max efficiency:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
14.5	0.102	3423	88.3	7.1	36.6	16.6	68.8

Select input:

1) oz-in 7) watts_in 3) rpm 5) amps b) rpm&s 8) eff%
2) Nm 6) watts_out 4) rpm% 9) volts a) rpm&ozin m) main menu x) exit 3

enter rpm: 422

miniCIM VEX 217-3371 @ 7.50 volts:

oz-in	Nm	rpm	rpm%	amps	watts out	watts heat	eff%
110.5	0.780	422	10.9	48.0	34.5	325.5	9.6