

QUARTER Pro - Version 3.2

Racing Systems Analysis - www.QUARTERjr.com

File: motorcyc.dat

Note: test case for QUARTER Pro version 3.2

General Data		Engine Dyno Data			Transmission Data			
Elevation - feet	0	RPM	HP	Torque	Clutch:			
Barometer - in Hg	29.92	6500	40	32	Launch@ RPM		11000	
Temperature - deg F	72	7000	47	35	Slip RPM		8500	
Relative Humidity - %	45	7500	53	37	Clutch Slippage		1.000	
Wind Velocity - MPH	6.0	8000	58	38	Lock-up option?		No	
Wind Angle - degs	180							
-----		9000	66	39				
Track Temp - deg F	98	9500	69	38	Gear	Ratio	Eff	Shift@
Traction Index	2	10000	72	38	2nd -	3.00	0.990	10800
		10500	73	37	3rd -	2.10	0.991	10900
		11000	73	35	4th -	1.65	0.992	11000
		11500	72	33	5th -	1.38	0.993	11000
Vehicle Data		Fuel System:			6th -	1.23	0.994	11000
Weight - lbs	650					1.10	0.995	0
Wheelbase - inches	54	Gasoline Carburetor						
Rollout - inches	12	HP/Torque Multiplier			1.000			
Overhang - inches	12							

Final Drive Data		Aerodynamic Data		Polar Moments of Inertia	
Gear Ratio	5.72	Frontal Area - sq ft	6.8	Engine + Flywheel + Clutch	0.18
Efficiency	0.990	Drag Coefficient	0.550	Transmission + Driveshaft	0.031
Tire Diameter - inches	25.0	Lift Coefficient	0.050	Tires + Wheels + Ring Gear	4.3
Tire Width - inches	5.00				

1.034	Time	Distance	MPH	Acceleration	Gear	RPM
	0.00	0	0.0	0.70	1	11,000
0.259/0.00	Rollout		5.2	0.87	1	8,500
	1.00	24	24.4	0.87	1	8,500
	1.15	30	27.3	0.86	1	8,500
	1.77	60	38.3	0.70	1	9,250
	2.00	73	41.8	0.66	1	10,090
	2.21	87	44.9	0.61	1	10,820
	2.41	100	47.7	0.63	2	8,500
	3.00	145	54.8	0.52	2	9,170
	3.46	184	60.0	0.51	2	10,030
	3.96	230	65.3	0.46	2	10,880
	4.16	249	67.3	0.45	3	8,810
	4.94	330	73.9	0.38	3	9,630
	5.00	336	74.4	0.38	3	9,690
	6.00	451	82.2	0.33	3	10,670
	6.38	498	84.9	0.32	3	11,000
	6.58	523	86.3	0.31	4	9,350
	7.00	577	88.8	0.28	4	9,610
	7.63	660	92.5	0.26	4	9,990
	8.00	711	94.6	0.25	4	10,200
	9.00	854	99.9	0.22	4	10,730
	9.03	858	100.0	0.22	4	10,750
	9.53	933	102.4	0.21	4	10,990
	9.73	963	103.3	0.21	5	9,880
	9.97	1000	104.3	0.19	5	9,970
	10.00	1004	104.5	0.19	5	9,980
	11.00	1160	108.5	0.17	5	10,330
	11.99	1320	112.0	0.16	5	10,640

1/8 Mile: 7.63 sec @ 91.1 MPH 1/4 Mile: 11.99 sec @ 111.3 MPH