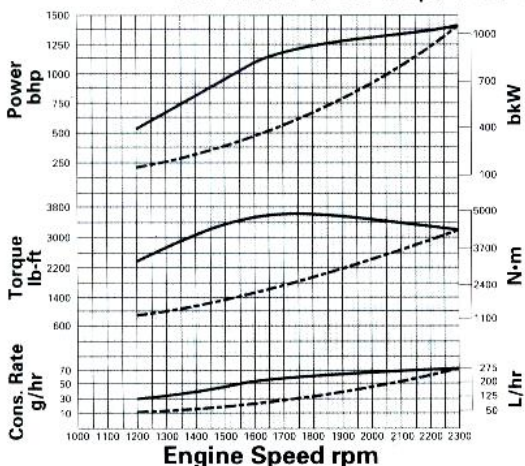




3412E DITTA MARINE ENGINE — 671-1044 bkW

PERFORMANCE CURVES

E Rating – 2300 rpm 1044 bkW (1400 bhp) 1420 mhp



Prop Demand Curve Data

Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
2300	1044	4335	220	273.8
2200	914	3966	215	233.8
2000	687	3278	209	170.8
1800	500	2655	213	126.9
1600	352	2098	217	90.9
1400	236	1606	226	63.4
1200	148	1180	233	41.2

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
2300	1400	3197	.362	72.3
2200	1225	2925	.353	61.8
2000	921	2418	.343	45.1
1800	671	1958	.350	33.5
1600	471	1547	.357	24.0
1400	316	1185	.372	16.7
1200	199	870	.383	10.9

TMI — DM4104-01

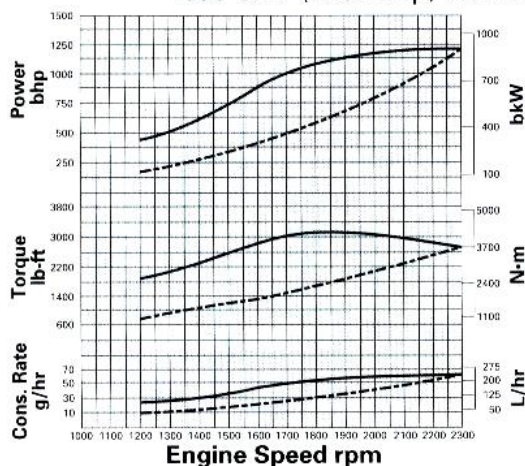
Max Power Curve Data

Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
1044	4335	220	273.8
1024	4445	222	270.5
977	4667	219	255.2
925	4909	214	235.6
813	4852	211	204.1
606	4131	215	154.9
407	3238	234	113.5

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1400	3197	.362	72.3
1373	3278	.364	71.5
1311	3442	.360	67.4
1241	3621	.351	62.2
1090	3579	.346	53.9
812	3047	.353	40.9
546	2388	.385	30.0

E RATING – Planing hull vessels such as pleasure craft, harbor patrol, harbor master, and some fishing and pilot boats.

D Rating – 2300 rpm Fast Craft 895 bkW (1200 bhp) 1217 mhp



Prop Demand Curve Data

Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
2300	895	3716	218	232.9
2200	783	3400	215	200.4
2000	589	2810	213	149.1
1800	429	2276	217	111.2
1600	301	1798	220	79.1
1400	202	1377	229	55.0
1200	127	1012	240	36.4

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
2300	1200	2741	.359	61.5
2200	1050	2508	.353	52.9
2000	789	2073	.350	39.4
1800	575	1679	.357	29.4
1600	404	1326	.362	20.9
1400	271	1016	.376	14.6
1200	170	746	.395	9.6

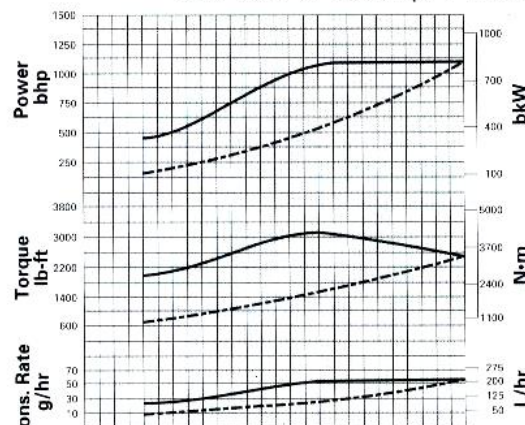
Max Power Curve Data

Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
895	3716	218	232.9
891	3866	217	230.4
873	4170	212	221.0
801	4247	208	198.6
649	3871	207	160.3
453	3089	217	117.1
328	2612	235	91.8

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1200	2741	.359	61.5
1194	2851	.357	60.9
1171	3076	.349	58.4
1074	3132	.342	52.5
870	2855	.341	42.3
607	2278	.357	30.9
440	1927	.386	24.3

D RATING – Planing hull vessels such as offshore patrol boats, customs, police, and some fire and fishing boats. Also used for bow and stern thrusters.

D Rating – 2300 rpm 820 bkW (1100 bhp) 1115 mhp



Prop Demand Curve Data

Speed rpm	Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
2300	820	3404	218	212.8
2200	718	3115	214	183.3
2000	539	2574	214	137.8
1800	393	2085	220	103.1
1600	276	1647	223	73.5
1400	185	1261	232	51.0
1200	117	927	243	33.8

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
2300	1100	2511	.358	56.2
2200	962	2297	.352	48.4
2000	723	1898	.352	36.4
1800	527	1538	.362	27.2
1600	370	1215	.367	19.4
1400	248	930	.381	13.5

Max Power Curve Data

Power bkW	Torque N-m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
820	3404	218	212.8
820	3559	216	211.0
820	3913	212	206.8
801	4247	208	198.4
649	3871	208	160.5
453	3089	217	117.1
336	2671	235	94.0

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
1100	2511	.358	56.2
1100	2625	.355	55.7
1099	2886	.348	54.6
1074	3132	.342	52.4
870	2855	.341	42.4
607	2278	.356	30.9

C

1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300

Engine Speed rpm

- Prop Demand ----- 3.0 Exponent
- Engine Performance Parameters: Power +/- 3%;
Specific Fuel Consumption +/- 3%; Fuel Rate +/- 5%.

1200 156 684 .400 8.9 | 450 1970 .386 24.8

D RATING – Planing hull vessels such as offshore patrol boats, customs, police, and some fire and fishing boats. Also used for bow and stern thrusters.