

IE3 THREE PHASE CAST IRON MOTORS

ELECTRICAL CHARACTERISTICS AT 50 Hz

MOTOR TYPE	HOUSING TYPE	RATED VALUES					STARTING VALUES				Break-down Torque Ratio	EFFICIENCY *			Cosφ	J	Weight [B3]	Sound Pressure Level dBA **	
		POWER		SPEED	CURRENT	TORQUE	CURRENT		TORQUE			η %							
		kW	HP	rpm	A	Nm	I_A / I_N	Δ	M_A / M_N	Δ	Mk/ Mn	4/4	3/4	2/4	4/4	kgm ²	kg		
2 pole 3000 rpm																			
230/400V	Q3HG80M2C	Cast Iron	0.75	1	2890	1.6	2.5	8.2	-	3.3	-	4.0	80.7	79.5	75.8	0.82	0.00140	19	57
	Q3HG80M2D	Cast Iron	1.10	1.5	2900	2.4	3.6	7.4	-	3.5	-	4.3	82.7	80.2	76.4	0.81	0.00170	22	57
	Q3HG90L2C	Cast Iron	1.50	2	2930	3.1	4.9	9.5	-	3.0	-	4.9	84.2	86.2	84.2	0.84	0.00249	26	62
	Q3HG90L2D	Cast Iron	2.20	3	2917	4.3	7.2	9.2	-	3.1	-	4.9	85.9	86.4	85.2	0.87	0.00283	30	62
	Q3HG100L2D	Cast Iron	3.00	4	2925	5.5	9.8	11.8	-	3.8	-	4.6	87.1	87.1	85.4	0.90	0.00536	39	63
400/690V	Q3HG112M2C	Cast Iron	4.00	5.5	2916	7.4	13.2	-	10.7	-	3.44	4.3	88.10	88.40	87.10	0.90	0.00604	52	67
	Q3HSG112M2C	Cast Iron	4.00	5.5	2950	7.7	12.7	-	13.6	-	4.9	5.8	88.10	87.00	84.40	0.86	0.00638	45	68
	Q3HSG132S2C	Cast Iron	5.50	7.5	2918	10	18.0	-	11.6	-	4.2	5.4	89.20	88.30	86.70	0.90	0.00772	56	69
	Q3HSG132S2D	Cast Iron	7.50	10	2903	13.5	24.7	-	11.0	-	4.2	5.2	90.10	89.80	88.90	0.90	0.00932	63	69
	Q3HG160M2C	Cast Iron	11.00	15	2965	20.1	35.4	-	11.4	-	3.4	5.1	91.20	91.80	90.40	0.86	0.03957	84	70
	Q3HSG160M2D	Cast Iron	11.00	15	2940	20.8	35.8	-	11.8	-	4.8	6.5	91.20	90.70	89.30	0.82	0.03517	99	70
	Q3HG160M2D	Cast Iron	15.00	20	2960	26.4	48.4	-	11.1	-	3.3	4.9	91.90	91.50	89.80	0.89	0.04322	108	70
	Q3HSG160M2DE	Cast Iron	15.00	20	2941	27.5	48.8	-	12.0	-	4.3	5.9	91.90	90.50	89.00	0.86	0.04015	115	71
	Q3HG160L2C	Cast Iron	18.50	25	2957	32.9	56.7	-	10.6	-	3.4	5.1	92.40	92.80	92.00	0.87	0.04809	132	70
	Q3HSG180M2B	Cast Iron	22.00	30	2959	39.5	71.0	-	11.8	-	3.7	5.4	92.70	91.90	90.70	0.87	0.05869	155	77
	Q3HG200L2C	Cast Iron	30.00	40	2964	51.2	97.6	-	10.4	-	2.7	4.1	93.30	92.80	91.60	0.91	0.10277	206	78
	Q3HG200L2D	Cast Iron	37.00	50	2960	61.6	118.7	-	9.9	-	2.75	4.2	93.70	93.70	93.10	0.92	0.11383	221	78
	Q3HG225M2B	Cast Iron	45.00	60	2976	77.7	144.4	-	11.4	-	3.2	6.7	94.00	94.40	93.50	0.89	0.23500	314	80
	Q3HG250M2B	Cast Iron	55.00	75	2968	93.6	177.1	-	8.5	-	2.8	5.0	94.30	93.90	93.30	0.90	0.48700	332	80
	Q3EP280M2C	Cast Iron	75.00	100	2975	124.9	240.7	-	8.4	-	2.2	4.4	94.70	94.20	93.10	0.92	0.54000	585	82
	Q3EP280M2D	Cast Iron	90.00	125	2975	150.7	288.9	-	8.6	-	2.4	5.4	95.00	94.70	93.70	0.93	0.64500	596	82
	Q3HG315S2D	Cast Iron	110.00	150	2989	202.2	351.6	-	11.5	-	2.0	5.4	95.20	93.90	92.30	0.83	2.19900	880	84
	Q3HG315M2B	Cast Iron	132.00	180	2984	226.2	423.2	-	9.7	-	2.0	4.3	95.40	95.10	94.10	0.87	2.37790	903	84
	Q3HG315L2A	Cast Iron	160.00	215	2990	302.1	511.6	-	11.2	-	2.6	6.1	95.60	94.50	92.70	0.81	2.62170	958	84
	Q3HG315L2C	Cast Iron	200.00	270	2983	343.0	640.3	-	10.8	-	2.2	4.7	95.80	95.40	94.50	0.87	2.90860	1013	84
Q3EP355M2C	Cast Iron	250.00	280	2983	419.0	800.0	-	7.3	-	1.7	2.5	95.80	95.80	94.70	0.90	3.81300	1612	91	
Q3EP355L2B	Cast Iron	315.00	353	2984	527.0	1008.0	-	7.3	-	1.8	2.5	95.80	95.70	94.40	0.90	4.52000	1771	91	
Q3EP355L2C	Cast Iron	355.00	398	2981	594.0	1137.0	-	7.9	-	2.2	2.5	95.80	95.80	95.00	0.90	5.58000	2002	91	
4 pole 1500 rpm																			
230/400V	Q3HG80M4C	Cast Iron	0.55	0.75	1453	1.4	3.6	6.6	-	1.6	-	2.0	80.8	79.3	75.2	0.73	0.00170	19	57
	Q3HG80M4D	Cast Iron	0.75	1	1447	1.8	5.0	6.6	-	2.6	-	3.5	82.5	80.4	77.1	0.74	0.00261	19	52
	Q3HG90L4C	Cast Iron	1.10	1.5	1445	2.5	7.3	7.7	-	3.4	-	4.0	84.1	83.2	80.6	0.78	0.00464	29	53
	Q3HG90L4D	Cast Iron	1.50	2	1449	3.5	9.9	8.1	-	3.6	-	4.2	85.3	85.0	82.1	0.76	0.00526	30	53
	Q3HG100L4C	Cast Iron	2.20	3	1453	4.5	14.4	9.6	-	3.6	-	4.4	86.7	86.3	84	0.8	0.00871	41	56
400/690V	Q3HG112M4D	Cast Iron	4.00	5.5	1459	8.5	26.1	-	9.7	-	4.0	4.7	88.6	87.9	85.7	0.77	0.01383	56	54
	Q3HG132S4B	Cast Iron	5.50	7.5	1470	10.9	35.6	-	8.6	-	2.2	3.7	89.6	89.0	87.3	0.81	0.03560	82	61
	Q3HG132M4D	Cast Iron	7.50	10	1467	14.8	48.8	-	9.1	-	2.3	4.0	90.4	89.8	88.6	0.82	0.04030	87	60
	Q3HG160M4C	Cast Iron	11.00	15	1475	22.0	71.3	-	7.3	-	2.7	3.1	91.4	91.6	90.7	0.79	0.07542	125	62
	Q3HSG160M4C	Cast Iron	11.00	15	1470	20.9	71.6	-	9.1	-	2.6	3.9	91.4	91.0	90.1	0.84	0.05940	112	63
	Q3HG160L4B	Cast Iron	15.00	20	1476	30.8	96.9	-	7.7	-	2.9	3.6	92.1	91.4	90.1	0.77	0.09005	137	62
	Q3HSG180M4B	Cast Iron	18.50	25	1474	36.8	119.8	-	7.2	-	2.7	3.2	92.6	92.3	91.7	0.79	0.11398	163	67
	Q3HG180L4B	Cast Iron	22.00	30	1484	42.4	141.4	-	9.3	-	2.8	3.8	93.0	92.6	91.5	0.81	0.18660	205	68
	Q3HG200L4D	Cast Iron	30.00	40	1475	54.8	195.4	-	8.0	-	2.5	3.1	93.6	94.2	93.9	0.85	0.22166	263	68
	Q3HG225S4B	Cast Iron	37.00	50	1483	68.5	237.9	-	8.4	-	2.85	3.9	93.9	92.9	91.7	0.84	0.36420	323	71
	Q3HG225M4C	Cast Iron	45.00	60	1481	82.3	290.1	-	7.8	-	2.6	4.2	94.2	93.8	93.1	0.84	0.43500	355	71
	Q3HG250M4B	Cast Iron	55.00	75	1477	103.7	357.1	-	7.5	-	2.8	4.0	94.6	94.0	93.4	0.82	0.90782	383	72
	Q3EP280M4C	Cast Iron	75.00	100	1485	138.9	482.3	-	7.8	-	3.0	3.2	95	94.8	94	0.82	1.06100	638	73
	Q3EP280M4D	Cast Iron	90.00	125	1485	163.5	578.7	-	7.9	-	3.0	3.2	95.2	95.0	93.9	0.86	1.14760	653	73
	Q3HG315S4D	Cast Iron	110.00	150	1491	195.3	703.3	-	11.1	-	2.86	4.1	95.4	94.5	93.2	0.85	3.46500	908	83
	Q3HG315M4B	Cast Iron	132.00	180	1489	223.7	846.6	-	9.1	-	2.3	3.2	95.6	95.6	95.1	0.89	3.96600	995	83
	Q3HG315L4A	Cast Iron	160.00	215	1489	270.6	1026.2	-	9.5	-	2.5	3.3	95.8	95.8	95.2	0.89	4.88320	1078	83
	Q3HG315L4B	Cast Iron	200.00	270	1489	345.0	1282.6	-	10.1	-	2.8	3.5	96.0	95.6	94.7	0.88	5.23440	1068	83
	Q3EP355M4C	Cast Iron	250.00	280	1491	422.0	1601.0	-	7.5	-	1.9	2.4	96.0	96.0	95.5	0.89	9.30600	1692	82
	Q3EP355L4B	Cast Iron	315.00	353	1491	532.0	2017.0	-	7.5	-	1.9	2.4	96.0	96.0	95.5	0.89	10.06700	1879	82
Q3EP355L4C	Cast Iron	355.00	398	1491	600.0	2273.0	-	7.5	-	2.0	2.3	96.0	96.0	95.5	0.89	11.90000	1953	82	

* According to IEC 60034-2-1

** The sound pressure measurements are taken 1m away from the motor

** Tolerance +3 dBA