



P-Q Curve For PowerMount Series

V_1.0

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Table: P-Q Curves for PowerMount Series.

Test Conditions			Measurements					Target	Tolerance	Limit
U/Un	P/Pmax	cos ϕ	P	Q	S	U	cos ϕ	Q	$\Delta Q/P_{max}$	$\Delta Q/P_{max}$
[%]	[%]		[kW]	[kVar]	[kVA]	[V]		[kVar]	[%]	[%]
90	50	0.9 under-excited	30.26	-14.25	33.45	205.19	0.90	-14.66	0.68%	$\leq \pm 4$
90	S _{Pmax}		54.82	-26.39	60.84	204.79	0.90	-26.55	0.27%	$\leq \pm 4$
100	50		30.29	-14.53	33.60	228.24	0.90	-14.67	0.23%	$\leq \pm 4$
100	S _{Pmax}		54.30	-25.92	60.17	227.74	0.90	-26.30	0.63%	$\leq \pm 4$
110	50		30.29	-14.56	33.61	251.31	0.90	-14.67	0.18%	$\leq \pm 4$
110	S _{Pmax}		54.33	-25.93	60.20	250.75	0.90	-26.31	0.64%	$\leq \pm 4$
90	50	0.95 under-excited	30.95	-10.01	32.53	205.54	0.95	-10.17	0.27%	$\leq \pm 4$
90	S _{Pmax}		57.78	-18.22	60.58	205.29	0.95	-18.99	1.29%	$\leq \pm 4$
100	50		29.99	-9.51	31.46	228.70	0.96	-9.85	0.58%	$\leq \pm 4$
100	S _{Pmax}		57.77	-18.27	60.59	228.24	0.95	-18.99	1.20%	$\leq \pm 4$
110	50		30.47	-9.45	31.90	251.77	0.96	-10.02	0.94%	$\leq \pm 4$
110	S _{Pmax}		57.75	-18.26	60.58	251.24	0.95	-18.98	1.21%	$\leq \pm 4$
90	50	0.9 over-excited	30.52	14.45	33.77	207.09	0.90	14.78	-0.55%	$\leq \pm 4$
90	S _{Pmax}		55.15	25.82	60.90	207.09	0.91	26.71	-1.48%	$\leq \pm 4$
100	50		30.56	14.63	33.88	230.03	0.90	14.80	-0.28%	$\leq \pm 4$
100	S _{Pmax}		54.68	25.98	60.54	230.03	0.90	26.48	-0.84%	$\leq \pm 4$
110	50		30.49	14.35	33.69	253.09	0.90	14.77	-0.69%	$\leq \pm 4$
110	S _{Pmax}		55.12	25.68	60.81	253.04	0.91	26.70	-1.69%	$\leq \pm 4$
90	50	0.95 over-excited	30.78	9.47	32.20	207.08	0.96	10.12	-1.08%	$\leq \pm 4$
90	S _{Pmax}		57.47	17.98	60.22	206.96	0.95	18.89	-1.52%	$\leq \pm 4$
100	50		30.80	9.65	32.28	230.10	0.95	10.12	-0.79%	$\leq \pm 4$
100	S _{Pmax}		57.55	17.76	60.23	229.96	0.96	18.92	-1.93%	$\leq \pm 4$
110	50		30.78	9.78	32.30	253.17	0.95	10.12	-0.56%	$\leq \pm 4$
110	S _{Pmax}		57.59	17.67	60.24	253.01	0.96	18.93	-2.10%	$\leq \pm 4$

Note (s): Test Data is from TUV Rheinland

