

Energy and Cost Savings Available When Replacing Serviceable Standard Efficiency Motor With an EPAct-level or NEMA Premium Motor

HP	Std Efficiency Motors, Average Efficiency		Replace with EPAct Motors				
	Eff. at 75% load	Annual Energy Use (kWh), cost	Purchase Price (35% disc)	% Eff. at 75% load	Annual Energy Use (kWh), cost	Annual Saving kWh, \$	Payback Period
		\$3,874			\$3,730	\$144	
15	87.55	76,771	\$562	91.0	73,780	2,991	2.50
		\$5,758			\$5,534	\$224	
20	89.3%	100,206	\$666	92.6	96,626	3,579	2.48
		\$7,515			\$7,247	\$268	
25	89.9%	124,457	\$800	93.1%	119,952	4,505	2.36
		\$9,334			\$8,996	\$338	
50	91.6%	244,211	\$1617	93.9	238,027	6,185	3.48
		\$18,316			\$17,852	\$464	

HP	Std Efficiency Motors, Average Efficiency		Replace with NEMA Premium Motors			
	Eff. at 75% load	Annual Energy Use (kWh), cost	% Eff at 75% load	Annual Energy Use (kWh), cost	Annual Savings, kWh, \$	Payback Period
5	84.0%	26,644	90.5	24,729	1,914	2.10
		\$1,998		\$1,855	\$144	
10	86.75	51,653	92.2	48,547	3,106	2.22
		\$3,874		\$3,641	\$233	