

NEMA

EFFICIENCY TABLES

TABLES 12-12

**NEMA TABLE 12-12
FULL LOAD EFFICIENCIES FOR NEMA PREMIUM® EFFICIENCY ELECTRIC MOTORS
RATED 600 VOLTS OR LESS (RANDOM WOUND)**

OPEN DRIP PROOF MOTORS

HP	2 Pole		4 Pole		6 Pole		8 Pole	
	Nominal Efficiency	Minimum Efficiency	Nominal Efficiency	Minimum Efficiency	Nominal Efficiency	Minimum Efficiency	Nominal Efficiency	Minimum Efficiency
1	77.0	74.0	85.5	82.5	82.5	80.0	Not Defined	Not Defined
1.5	84.0	81.5	86.5	84.0	86.5	81.5		
2	85.5	82.5	86.5	84.0	87.5	81.5		
3	85.5	82.5	89.5	84.0	88.5	86.5		
5	86.5	84.0	89.5	84.0	89.5	87.5		
7.5	88.5	86.5	91.0	89.5	90.2	88.5		
10	89.5	87.5	91.7	90.2	91.7	90.2		
15	90.2	88.5	93.0	91.7	91.7	90.2		
20	91.0	89.5	93.0	91.7	92.4	91.0		
25	91.7	90.2	93.6	92.4	93.0	91.7		
30	91.7	90.2	94.1	93.0	93.6	92.4		
40	92.4	91.0	94.1	93.0	94.1	93.0		
50	93.0	91.7	94.5	93.6	94.1	93.0		
60	93.6	92.4	95.0	94.1	94.5	93.6		
75	93.6	92.4	95.0	94.1	94.5	93.6		
100	93.6	92.4	95.4	94.5	95.0	94.1		
125	94.1	93.0	95.4	94.5	95.0	94.1		
150	94.1	93.0	95.8	95.0	95.4	94.5		
200	95.0	94.1	95.8	95.0	95.4	94.5		
250	95.0	94.1	95.8	95.0	95.4	94.5		
300	95.4	94.5	95.8	95.0	95.4	94.5		
350	95.4	94.5	95.8	95.0	95.4	94.5		
400	95.8	95.0	95.8	95.0	95.8	95.0		
450	95.8	95.0	96.2	95.4	96.2	95.4	▼	▼
500	95.8	95.0	96.2	95.4	96.2	95.4		

NEMA TABLE 12-12
FULL LOAD EFFICIENCIES FOR NEMA PREMIUM® EFFICIENCY ELECTRIC MOTORS
RATED 600 VOLTS OR LESS (RANDOM WOUND)

TOTALLY ENCLOSED FAN COOLED

HP	2 Pole		4 Pole		6 Pole		8 Pole	
	Nominal Efficiency	Minimum Efficiency	Nominal Efficiency	Minimum Efficiency	Nominal Efficiency	Minimum Efficiency	Nominal Efficiency	Minimum Efficiency
1	77.0	74.0	85.5	82.5	82.5	80.0	Not Defined	Not Defined
1.5	84.0	81.5	86.5	84.0	87.5	85.5		
2	85.5	82.5	86.5	84.0	88.5	86.5		
3	86.5	84.0	89.5	87.5	89.5	87.5		
5	88.5	86.5	89.5	87.5	89.5	87.5		
7.5	89.5	87.5	91.7	90.2	91.0	89.5		
10	90.2	88.5	91.7	90.2	91.0	89.5		
15	91.0	89.5	92.4	91.0	91.7	90.2		
20	91.0	89.5	93.0	91.7	91.7	90.2		
25	91.7	90.2	93.6	92.4	93.0	91.7		
30	91.7	90.2	93.6	92.4	93.0	91.7		
40	92.4	91.0	94.1	93.0	94.1	93.0		
50	93.0	91.7	94.5	93.6	94.1	93.0		
60	93.6	92.4	95.0	94.1	94.5	93.6		
75	93.6	92.4	95.4	94.5	94.5	93.6		
100	94.1	93.0	95.4	94.5	95.0	94.1		
125	95.0	94.1	95.4	94.5	95.0	94.1		
150	95.0	94.1	95.8	95.0	95.8	95.0		
200	95.4	94.5	96.2	95.4	95.8	95.0		
250	95.8	95.0	96.2	95.4	95.8	95.0		
300	95.8	95.0	96.2	95.4	95.8	95.0		
350	95.8	95.0	96.2	95.4	95.8	95.0		
400	95.8	95.0	96.2	95.4	95.8	95.0		
450	95.8	95.0	96.2	95.4	95.8	95.0	▼	▼
500	95.8	95.0	96.2	95.4	95.8	95.0		