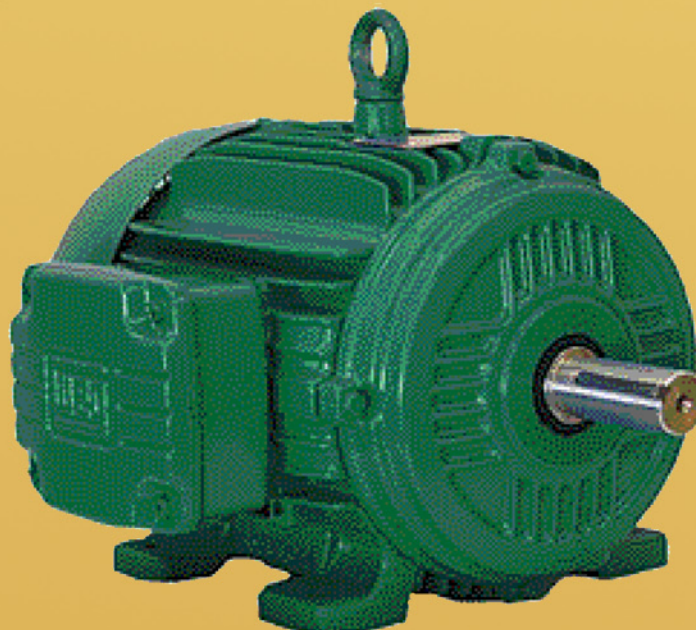


Induction Motor Efficiency Standards

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Induction Motor Efficiency Standards

See notes at end of tables

Enclosure	Speed	Horse Power	Volt	Old NEMA	NEMA EPACT	IEEE 841	NEMA Premium
ODP	3600	1	460				77.0
ODP	3600	1.5	460	80.0	82.5		84.0
ODP	3600	2	460	82.5	84.0		85.5
ODP	3600	3	460	82.5	84.0		85.5
ODP	3600	5	460	85.5	85.5		86.5
ODP	3600	7.5	460	85.5	87.5		88.5
ODP	3600	10	460	87.5	88.5		89.5
ODP	3600	15	460	89.5	89.5		90.2
ODP	3600	20	460	90.2	90.2		91.0
ODP	3600	25	460	91.0	91.0		91.7
ODP	3600	30	460	91.0	91.0		91.7
ODP	3600	40	460	91.7	91.7		92.4
ODP	3600	50	460	91.7	92.4		93.0
ODP	3600	60	460	93.0	93.0		93.6
ODP	3600	75	460	93.0	93.0		93.6
ODP	3600	100	460	93.0	93.0		93.6
ODP	3600	125	460	93.0	93.6		94.1
ODP	3600	150	460	93.6	93.6		94.1
ODP	3600	200	460	93.6	94.5		95.0
ODP	3600	250	460		94.5		95.0
ODP	3600	300	460		95.0		95.4
ODP	3600	350	460		95.0		95.4
ODP	3600	400	460		95.4		95.8
ODP	3600	450	460		95.8		95.8
ODP	3600	500	460		95.8		95.8
ODP	1800	1	460	82.5	82.5		85.5
ODP	1800	1.5	460	82.5	84.0		86.5
ODP	1800	2	460	82.5	84.0		86.5
ODP	1800	3	460	86.5	86.5		89.5
ODP	1800	5	460	86.5	87.5		89.5
ODP	1800	7.5	460	88.5	88.5		91.0
ODP	1800	10	460	88.5	89.5		91.7
ODP	1800	15	460	90.2	91.0		93.0
ODP	1800	20	460	91.0	91.0		93.0

Induction Motor Efficiency Standards

See notes at end of tables

Enclosure	Speed	Horse Power	Volt	Old NEMA	NEMA EPACT	IEEE 841	NEMA Premium
ODP	1800	15	460	90.2	91.0		93.0
ODP	1800	20	460	91.0	91.0		93.0
ODP	1800	25	460	91.7	91.7		93.6
ODP	1800	30	460	91.7	92.4		94.1
ODP	1800	40	460	92.4	93.0		94.1
ODP	1800	50	460	92.4	93.0		94.5
ODP	1800	60	460	93.0	93.6		95.0
ODP	1800	75	460	93.6	94.1		95.0
ODP	1800	100	460	93.6	94.1		95.4
ODP	1800	125	460	93.6	94.5		95.4
ODP	1800	150	460	94.1	95.0		95.8
ODP	1800	200	460	94.1	95.0		95.8
ODP	1800	250	460		95.4		95.8
ODP	1800	300	460		95.4		95.8
ODP	1800	350	460		95.4		95.8
ODP	1800	400	460		95.4		95.8
ODP	1800	450	460		95.8		96.2
ODP	1800	500	460		95.8		96.2
ODP	1200	1	460	77.0	80.0		82.5
ODP	1200	1.5	460	82.5	84.0		86.5
ODP	1200	2	460	84.0	85.5		87.5
ODP	1200	3	460	85.5	86.5		88.5
ODP	1200	5	460	86.5	87.5		89.5
ODP	1200	7.5	460	88.5	88.5		90.2
ODP	1200	10	460	90.2	90.2		91.7
ODP	1200	15	460	89.5	90.2		91.7
ODP	1200	20	460	90.2	91.0		92.4
ODP	1200	25	460	91.0	91.7		93.0
ODP	1200	30	460	91.7	92.4		93.6
ODP	1200	40	460	91.7	93.0		94.1
ODP	1200	50	460	91.7	93.0		94.1
ODP	1200	60	460	92.4	93.6		94.5
ODP	1200	75	460	93.0	93.6		94.5
ODP	1200	100	460	93.6	94.1		95.0

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See notes at end of tables

Enclosure	Speed	Horse Power	Volt	Old NEMA	NEMA EPACT	IEEE 841	NEMA Premium
ODP	1200	125	460	93.6	94.1		95.0
ODP	1200	150	460	93.6	94.5		95.4
ODP	1200	200	460	94.1	94.5		95.4
ODP	1200	250	460		95.4		95.4
ODP	1200	300	460		95.4		95.4
ODP	1200	350	460		95.4		95.4
ODP	1200	400	460				95.8
ODP	1200	450	460				96.2
ODP	1200	500	460				96.2
ODP	900	1	460	72.0	74.0		
ODP	900	1.5	460	75.5	75.5		
ODP	900	2	460	85.5	85.5		
ODP	900	3	460	86.5	86.5		
ODP	900	5	460	87.5	87.5		
ODP	900	7.5	460	88.5	88.5		
ODP	900	10	460	89.5	89.5		
ODP	900	15	460	89.5	89.5		
ODP	900	20	460	90.2	90.2		
ODP	900	25	460	90.2	90.2		
ODP	900	30	460	91.0	91.0		
ODP	900	40	460	90.2	91.0		
ODP	900	50	460	91.7	91.7		
ODP	900	60	460	92.4	92.4		
ODP	900	75	460	93.6	93.6		
ODP	900	100	460	93.6	93.6		
ODP	900	125	460	93.6	93.6		
ODP	900	150	460	93.6	93.6		
ODP	900	200	460	93.6	93.6		
ODP	900	250	460		94.5		
ODP	900	300	460				
ODP	900	350	460				
ODP	900	400	460				
ODP	900	450	460				
ODP	900	500	460				

Induction Motor Efficiency Standards

See notes at end of tables

Enclosure	Speed	Horse Power	Volt	Old NEMA	NEMA EPACT	IEEE 841	NEMA Premium
TEFC	3600	1	460		75.5	77.0	77.0
TEFC	3600	1.5	460	78.5	82.5	84.0	84.0
TEFC	3600	2	460	81.5	84.0	85.5	85.5
TEFC	3600	3	460	82.5	85.5	86.5	86.5
TEFC	3600	5	460	85.5	87.5	88.5	88.5
TEFC	3600	7.5	460	85.5	88.5	89.5	89.5
TEFC	3600	10	460	87.5	89.5	90.2	90.2
TEFC	3600	15	460	87.5	90.2	91.0	91.0
TEFC	3600	20	460	88.5	90.2	91.0	91.0
TEFC	3600	25	460	89.5	91.0	91.7	91.7
TEFC	3600	30	460	89.5	91.0	91.7	91.7
TEFC	3600	40	460	90.2	91.7	92.4	92.4
TEFC	3600	50	460	90.2	92.4	93.0	93.0
TEFC	3600	60	460	91.7	93.0	93.6	93.6
TEFC	3600	75	460	92.4	93.0	93.6	93.6
TEFC	3600	100	460	93.0	93.6	94.1	94.1
TEFC	3600	125	460	93.0	94.5	95.0	95.0
TEFC	3600	150	460	93.0	94.5	95.0	95.0
TEFC	3600	200	460	94.1	95.0	95.4	95.4
TEFC	3600	250	460		95.4	95.4	95.8
TEFC	3600	300	460		95.4	95.4	95.8
TEFC	3600	350	460		95.4	95.4	95.8
TEFC	3600	400	460		95.4	95.4	95.8
TEFC	3600	450	460		95.4	95.4	95.8
TEFC	3600	500	460		95.4	95.4	95.8
TEFC	1800	1	460	80.0	82.5	84.0	85.5
TEFC	1800	1.5	460	81.5	84.0	85.5	86.5
TEFC	1800	2	460	82.5	84.0	85.5	86.5
TEFC	1800	3	460	84.0	87.5	88.5	89.5
TEFC	1800	5	460	85.5	87.5	88.5	89.5
TEFC	1800	7.5	460	87.5	89.5	90.2	91.7
TEFC	1800	10	460	87.5	89.5	90.2	91.7
TEFC	1800	15	460	88.5	91.0	91.7	92.4

Induction Motor Efficiency Standards

See notes at end of tables

Enclosure	Speed	Horse Power	Volt	Old NEMA	NEMA EPACT	IEEE 841	NEMA Premium
TEFC	1800	20	460	90.2	91.0	91.7	93.0
TEFC	1800	25	460	91.0	92.4	93.0	93.6
TEFC	1800	30	460	91.0	92.4	93.0	93.6
TEFC	1800	40	460	91.7	93.0	93.6	94.1
TEFC	1800	50	460	92.4	93.0	93.6	94.5
TEFC	1800	60	460	93.0	93.6	94.1	95.0
TEFC	1800	75	460	93.0	94.1	94.5	95.4
TEFC	1800	100	460	93.6	94.5	95.0	95.4
TEFC	1800	125	460	93.6	94.5	95.0	95.4
TEFC	1800	150	460	94.1	95.0	95.4	95.8
TEFC	1800	200	460	94.5	95.0	95.4	96.2
TEFC	1800	250	460		95.0	95.0	96.2
TEFC	1800	300	460		95.4	95.4	96.2
TEFC	1800	350	460		95.4	95.4	96.2
TEFC	1800	400	460		95.4	95.4	96.2
TEFC	1800	450	460		95.4	95.4	96.2
TEFC	1800	500	460		95.8	95.4	96.2
TEFC	1200	1	460	75.5	80.0	81.5	82.5
TEFC	1200	1.5	460	82.5	85.5	86.5	87.5
TEFC	1200	2	460	82.5	86.5	87.5	88.5
TEFC	1200	3	460	84.0	87.5	88.5	89.5
TEFC	1200	5	460	85.5	87.5	88.5	89.5
TEFC	1200	7.5	460	87.5	89.5	90.2	91.0
TEFC	1200	10	460	87.5	89.5	90.2	91.0
TEFC	1200	15	460	89.5	90.2	91.0	91.7
TEFC	1200	20	460	89.5	90.2	91.0	91.7
TEFC	1200	25	460	90.2	91.7	92.4	93.0
TEFC	1200	30	460	91.0	91.7	92.4	93.0
TEFC	1200	40	460	91.7	93.0	93.6	94.1
TEFC	1200	50	460	91.7	93.0	93.6	94.1
TEFC	1200	60	460	91.7	93.6	94.1	94.5
TEFC	1200	75	460	93.0	93.6	94.1	94.5
TEFC	1200	100	460	93.0	94.1	94.5	95.0

Induction Motor Efficiency Standards

See notes at end of tables

Enclosure	Speed	Horse Power	Volt	Old NEMA	NEMA EPACT	IEEE 841	NEMA Premium
TEFC	1200	125	460	93.0	94.1	94.5	95.0
TEFC	1200	150	460	94.1	95.0	95.4	95.8
TEFC	1200	200	460	94.1	95.0	95.4	95.8
TEFC	1200	250	460		95.0	95.0	95.8
TEFC	1200	300	460		95.0	95.0	95.8
TEFC	1200	350	460		95.0	95.0	95.8
TEFC	1200	400	460				95.8
TEFC	1200	450	460				95.8
TEFC	1200	500	460				95.8
TEFC	900	1	460	72.0	74.0	75.5	
TEFC	900	1.5	460	75.5	77.0	78.5	
TEFC	900	2	460	82.5	82.5	84.0	
TEFC	900	3	460	81.5	84.0	85.5	
TEFC	900	5	460	84.0	85.5	86.5	
TEFC	900	7.5	460	85.5	85.5	86.5	
TEFC	900	10	460	87.5	88.5	89.5	
TEFC	900	15	460	88.5	88.5	89.5	
TEFC	900	20	460	89.5	89.5	90.2	
TEFC	900	25	460	89.5	89.5	90.2	
TEFC	900	30	460	90.2	91.0	91.7	
TEFC	900	40	460	90.2	91.0	91.7	
TEFC	900	50	460	91.0	91.7	92.4	
TEFC	900	60	460	91.7	91.7	92.4	
TEFC	900	75	460	93.0	93.0	93.6	
TEFC	900	100	460	93.0	93.0	93.6	
TEFC	900	125	460	93.6	93.6	94.1	
TEFC	900	150	460	93.6	93.6	94.1	
TEFC	900	200	460	94.1	94.1	94.5	
TEFC	900	250	460		94.5	94.5	
TEFC	900	300	460				
TEFC	900	350	460				
TEFC	900	400	460				
TEFC	900	450	460				

Induction Motor Efficiency Standards

See notes at end of tables

Enclosure	Speed	Horse Power	Volt	Old NEMA	NEMA EPACT	IEEE 841	NEMA Premium
TEFC	900	500	460				
ODP	3600	250	4000				94.5
ODP	3600	300	4000				94.5
ODP	3600	350	4000				94.5
ODP	3600	400	4000				94.5
ODP	3600	450	4000				94.5
ODP	3600	500	4000				94.5
ODP	1800	250	4000				95.0
ODP	1800	300	4000				95.0
ODP	1800	350	4000				95.0
ODP	1800	400	4000				95.0
ODP	1800	450	4000				95.0
ODP	1800	500	4000				95.0
ODP	1200	250	4000				95.0
ODP	1200	300	4000				95.0
ODP	1200	350	4000				95.0
ODP	1200	400	4000				95.0
ODP	1200	450	4000				95.0
ODP	1200	500	4000				95.0
ODP	3600	300	4000				94.5
ODP	3600	350	4000				94.5
ODP	3600	400	4000				94.5
ODP	3600	450	4000				94.5
ODP	3600	500	4000				94.5
ODP	900	250	4000				
ODP	900	300	4000				
ODP	900	350	4000				
ODP	900	400	4000				
ODP	900	450	4000				
ODP	900	500	4000				
TEFC	3600	250	4000			95.0	95.0
TEFC	3600	300	4000			95.0	95.0
TEFC	3600	350	4000			95.0	95.0

Induction Motor Efficiency Standards

See notes at end of tables

Enclosure	Speed	Horse Power	Volt	Old NEMA	NEMA EPACT	IEEE 841	NEMA Premium
TEFC	3600	400	4000			95.0	95.0
TEFC	3600	450	4000			95.0	95.0
TEFC	3600	500	4000			95.0	95.0
TEFC	1800	250	4000			95.0	95.0
TEFC	1800	300	4000			95.0	95.0
TEFC	1800	350	4000			95.0	95.0
TEFC	1800	400	4000			95.0	95.0
TEFC	1800	450	4000			95.0	95.0
TEFC	1800	500	4000			95.0	95.0
TEFC	1200	250	4000			95.0	95.0
TEFC	3600	300	4000			95.0	95.0
TEFC	3600	350	4000			95.0	95.0
TEFC	3600	400	4000			95.0	95.0
TEFC	3600	450	4000			95.0	95.0
TEFC	3600	500	4000			95.0	95.0
TEFC	900	250	4000			95.0	
TEFC	900	300	4000			95.0	
TEFC	900	350	4000			95.0	
TEFC	900	400	4000			95.0	
TEFC	900	450	4000			95.0	
TEFC	900	500	4000			95.0	

Notes:
Speed..... Synchronous speed: equal to 7200 / #poles
Horsepower Rated Horsepower
Volt Volt Code: 460 means = or < 600 V; 4000 means > 600 V
Old NEMA..... Earliest NEMA standard for “Energy Efficient” label.
Lower than current “Energy Efficient” standard
NEMA EPACT..... Current NEMA standard for “Energy Efficient” label.
Same as EPAct but EPAct doesn’t exist at >200 HP or <1200 RPM
IEEE 841 IEEE 841-2001 standard
NEMA Premium..... NEMA standard for “Premium Efficient” label.

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