

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :												
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11606715									
		Catalog # :	01036ET3E215TC-W22									
Frame	: 213/5TC	Locked rotor time	: 32s (cold) 18s (hot)									
Output	: 10 HP (7.5 kW)	Temperature rise	: 80 K									
Poles	: 2	Duty cycle	: Cont.(S1)									
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C									
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.									
Rated current	: 23.2/11.6 A	Protection degree	: IP55									
L. R. Amperes	: 167/83.5 A	Cooling method	: IC411 - TEFC									
LRC	: 7.2x(Code H)	Mounting	: F-1									
No load current	: 7.20/3.60 A	Rotation <sup>1</sup>	: Both (CW and CCW)									
Rated speed	: 3530 rpm	Noise level <sup>2</sup>	: 68.0 dB(A)									
Slip	: 1.94 %	Starting method	: Direct On Line									
Rated torque	: 14.9 ft.lb	Approx. weight <sup>3</sup>	: 179 lb									
Locked rotor torque	: 220 %											
Breakdown torque	: 290 %											
Insulation class	: F											
Service factor	: 1.25											
Moment of inertia (J)	: 0.6362 sq.ft.lb											
Design	: B											
Output	50%	75%	100%									
Efficiency (%)	89.5 88.6 88.4 87.7 89.5 89.5 89.5	90.2 89.6 89.6 89.5 89.5 89.5 89.5	90.2 89.5 89.5 89.8 88.5 88.5 88.5									
Power Factor	0.79 0.75 0.72 0.70 0.83 0.81 0.79	0.87 0.86 0.83 0.82 0.90 0.88 0.87	0.90 0.90 0.88 0.86 0.91 0.91 0.90									
Losses at normative operating points (speed;torque), in percentage of rated output power												
Losses (%)	P1 (0,9;1,0)	10.7	10.7	10.7	10.7	10.7	10.7					
	P2 (0,5;1,0)	8.7	8.7	8.7	8.7	8.7	8.7					
	P3 (0,25;1,0)	7.8	7.8	7.8	7.8	7.8	7.8					
	P4 (0,9;0,5)	5.2	5.2	5.2	5.2	5.2	5.2					
	P5 (0,5;0,5)	3.3	3.3	3.3	3.3	3.3	3.3					
	P6 (0,5;0,25)	2.1	2.1	2.1	2.1	2.1	2.1					
	P7 (0,25;0,25)	1.3	1.3	1.3	1.3	1.3	1.3					
Drive end				Non drive end								
Bearing type	: 6308 ZZ			6207 ZZ								
Sealing	: V'Ring			V'Ring								
Lubrication interval	: -			-								
Lubricant amount	: -			-								
Lubricant type	: Mobil Polyrex EM											
Notes:												
This revision replaces and cancel the previous one, which must be eliminated.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.								
(1) Looking the motor from the shaft end.												
(2) Measured at 1m and with tolerance of +3dB(A).												
(3) Approximate weight subject to changes after manufacturing process.												
(4) At 100% of full load.												
Rev.	Changes Summary			Performed	Checked	Date						
Performed by						Page						
Checked by						Revision						
Date						1 / 1						