

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: Rolled Steel NEMA Premium Efficiency Three-Phase			Product code : 12651247	
Frame	:	213/5TC		Locked rotor time	:	27s (cold) 15s (hot)
Output	:	10 HP (7.5 kW)		Temperature rise	:	80 K
Frequency	:	60 Hz		Duty cycle	:	Cont.(S1)
Rated voltage	:	230/460 V		Ambient temperature	:	-20°C to +40°C
Poles	:	4		Altitude	:	1000 m.a.s.l.
Rated current	:	24.2/12.1 A		Protection degree	:	IP55
	:	7.3x(Code H)		Cooling method	:	IC411 - TEFC
Rated speed	:	1770 rpm		Mounting	:	F-1
Rated torque	:	4.10 kgfm		Rotation <sup>1</sup>	:	Both (CW and CCW)
Insulation class	:	F		Noise level <sup>2</sup>	:	60.0 dB(A)
Service factor	:	1.15		Starting method	:	Direct On Line
Moment of inertia (J)	:	0.0451 kgm <sup>2</sup>		Approx. weight <sup>3</sup>	:	73.6 kg
Design	:	B				
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	90.2	91.0	91.7	Max. traction : 0 kgf	
Power Factor	0.00	0.68	0.80	0.85	Max. compression : 0 kgf	
Losses at normative operating points (speed;torque), in percentage of rated output power						
P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
8.8	7.7	7.3	4.2	3.0	2.0	1.5
			<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6208 ZZ		6206 ZZ		
Sealing	:	V'Ring		Without Bearing Seal		
Lubrication interval	:	-		-		
Lubricant amount	:	-		-		
Lubricant type	:	Mobil Polyrex EM				
Notes						
USABLE @208V 27.0A SF 1.00 SFA 27.0A						
This revision replaces and cancel the previous one, which must be eliminated. (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.				These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.		
Rev.	Changes Summary			Performed	Checked	Date
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# LOAD PERFORMANCE CURVE

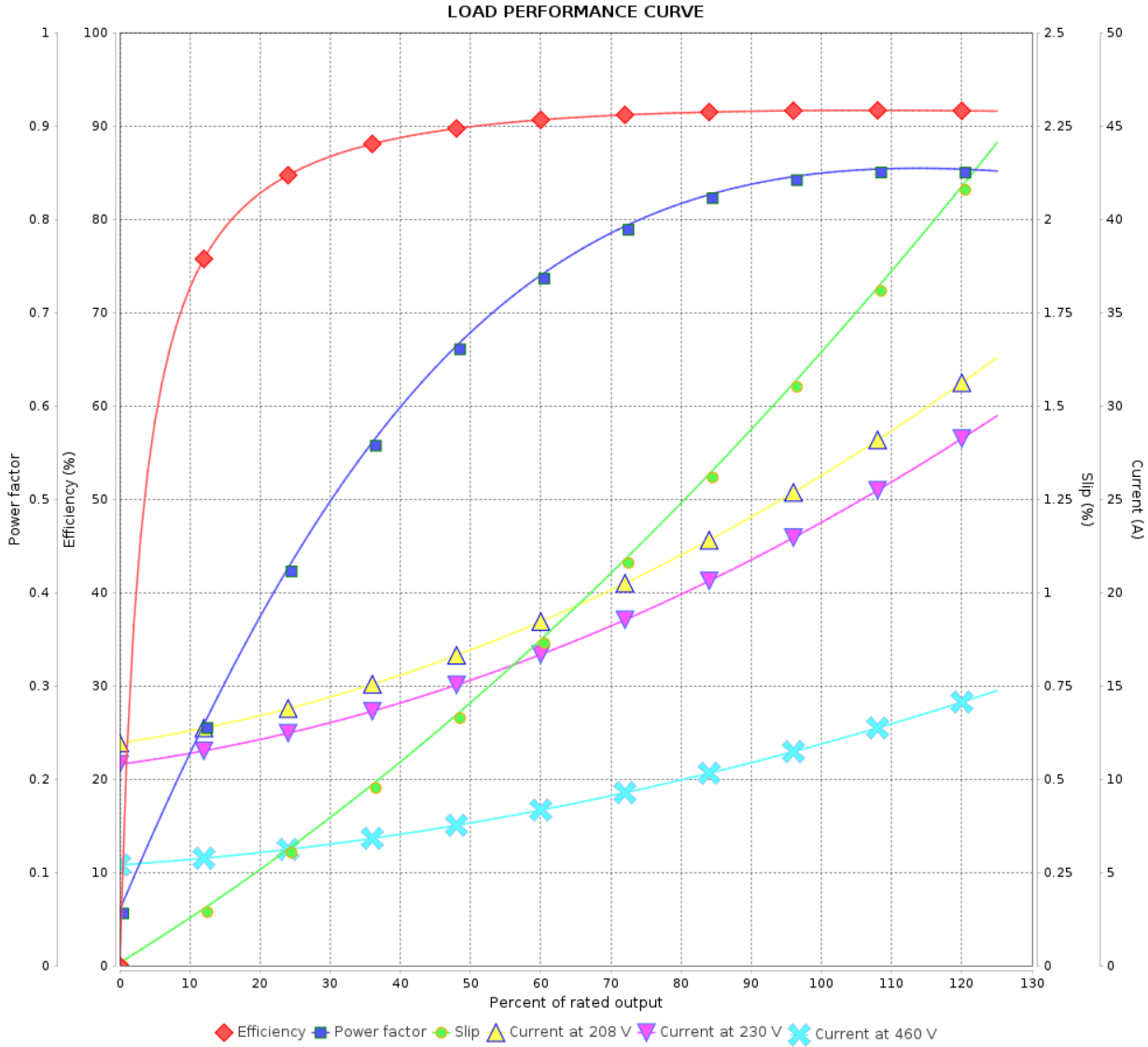
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Efficiency Three-Phase

Product code : 12651247



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