

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase			Product code : 14188207			
Frame	: 213/5T			Locked rotor time	: 41s (cold) 23s (hot)	
Output	: 7.5 HP (5.5 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	: 17.3/8.67 A			Protection degree	: IP55	
L. R. Amperes	: 125/62.4 A			Cooling method	: IC411 - TEFC	
LRC	: 7.2x(Code H)			Mounting	: F-1	
No load current	: 5.00/2.50 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3535 rpm			Noise level ²	: 72.0 dB(A)	
Slip	: 1.81 %			Starting method	: Direct On Line	
Rated torque	: 1.54 kgfm			Approx. weight ³	: 87.2 kg	
Locked rotor torque	: 229 %					
Breakdown torque	: 300 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.0198 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	84.3	85.5	88.5	89.5	Max. traction	: 56 kgf
Power Factor	0.55	0.78	0.86	0.89	Max. compression	: 143 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)
10.7	7.3	6.5	6.2	3.1	2.1	1.1
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6308 2RS		6207 2RS		
Sealing	:	Oil Seal		Lip Seal		
Lubrication interval	:	-		-		
Lubricant amount	:	-		-		
Lubricant type	:	Mobil Polyrex EM				
Notes: USABLE @208V 19.8A SF 1.15 SFA 22.8A						
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.		
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Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

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LOAD PERFORMANCE CURVE

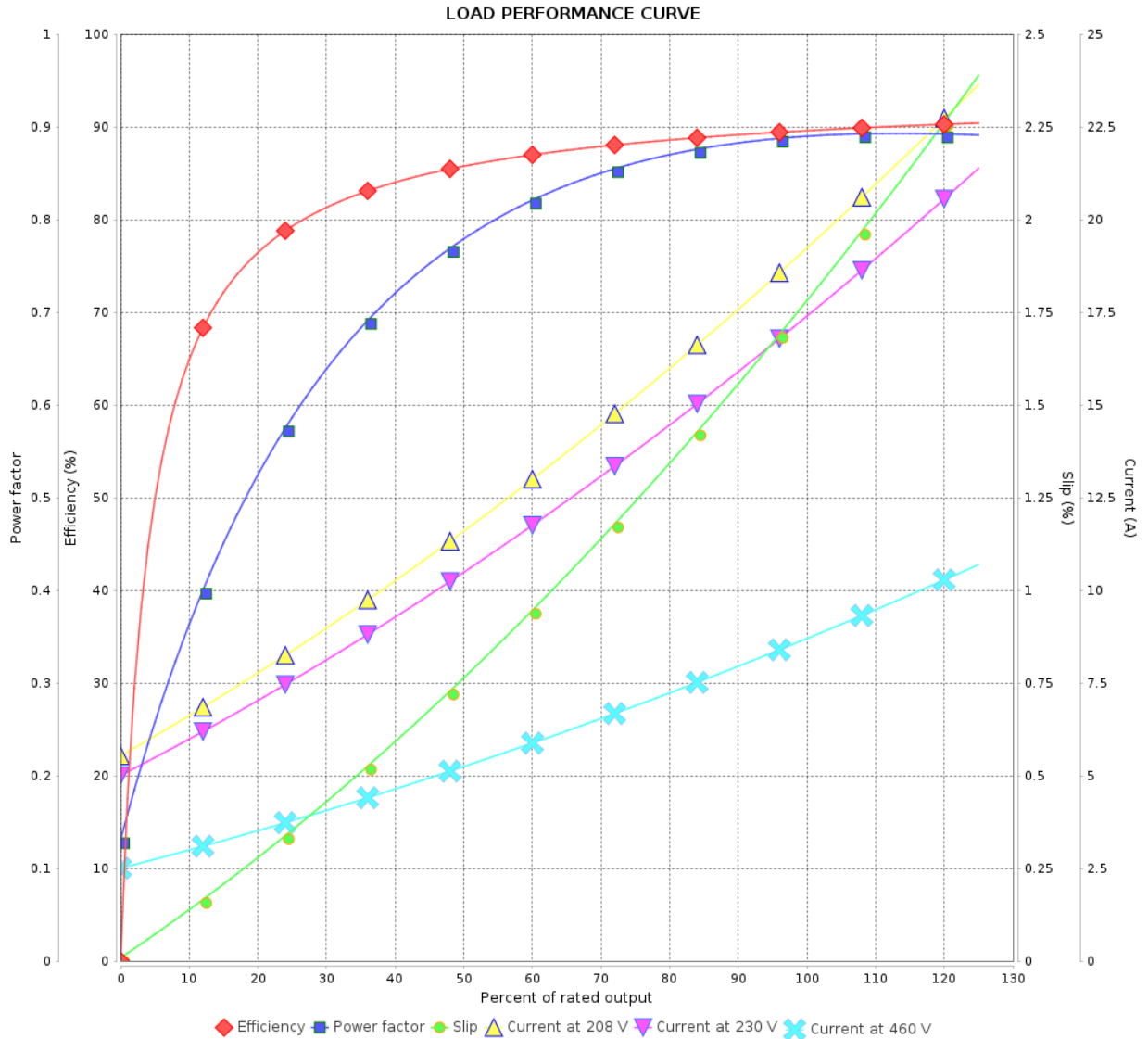
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium
Efficiency Three-Phase

Product code : 14188207



Performance : 230/460 V 60 Hz 2P

Rated current : 17.3/8.67 A
 LRC : 7.2
 Rated torque : 1.54 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 3535 rpm

Moment of inertia (J) : 0.0198 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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