

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 13781910			
Frame	: 444/5TSC			Locked rotor time	: 39s (cold) 22s (hot)	
Output	: 150 HP (110 kW)			Temperature rise	: 80 K	
Poles	: 4			Duty cycle	: Cont.(S1)	
Frequency	: 50 Hz			Ambient temperature	: -20°C to +40°C	
Rated voltage	: 1000 V			Altitude	: 1000 m.a.s.l.	
Rated current	: 78.2 A			Protection degree	: IP55	
L. R. Amperes	: 516 A			Cooling method	: IC411 - TEFC	
LRC	: 6.6x(Code H)			Mounting	: F-1	
No load current	: 23.0 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1480 rpm			Starting method	: Direct On Line	
Slip	: 1.33 %			Approx. weight ³	: 945 kg	
Rated torque	: 73.3 kgfm					
Locked rotor torque	: 200 %					
Breakdown torque	: 210 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 2.98 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	95.0	95.5	95.5	Max. traction	: 878 kgf
Power Factor	0.00	0.75	0.82	0.85	Max. compression	: 1823 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)
4.4	3.6	3.3	2.1	1.4	0.9	0.6
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6319 C3		6316 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	11000 h		13000 h		
Lubricant amount	:	45 g		34 g		
Lubricant type	:	Mobil Polyrex EM				
Notes:						
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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LOAD PERFORMANCE CURVE

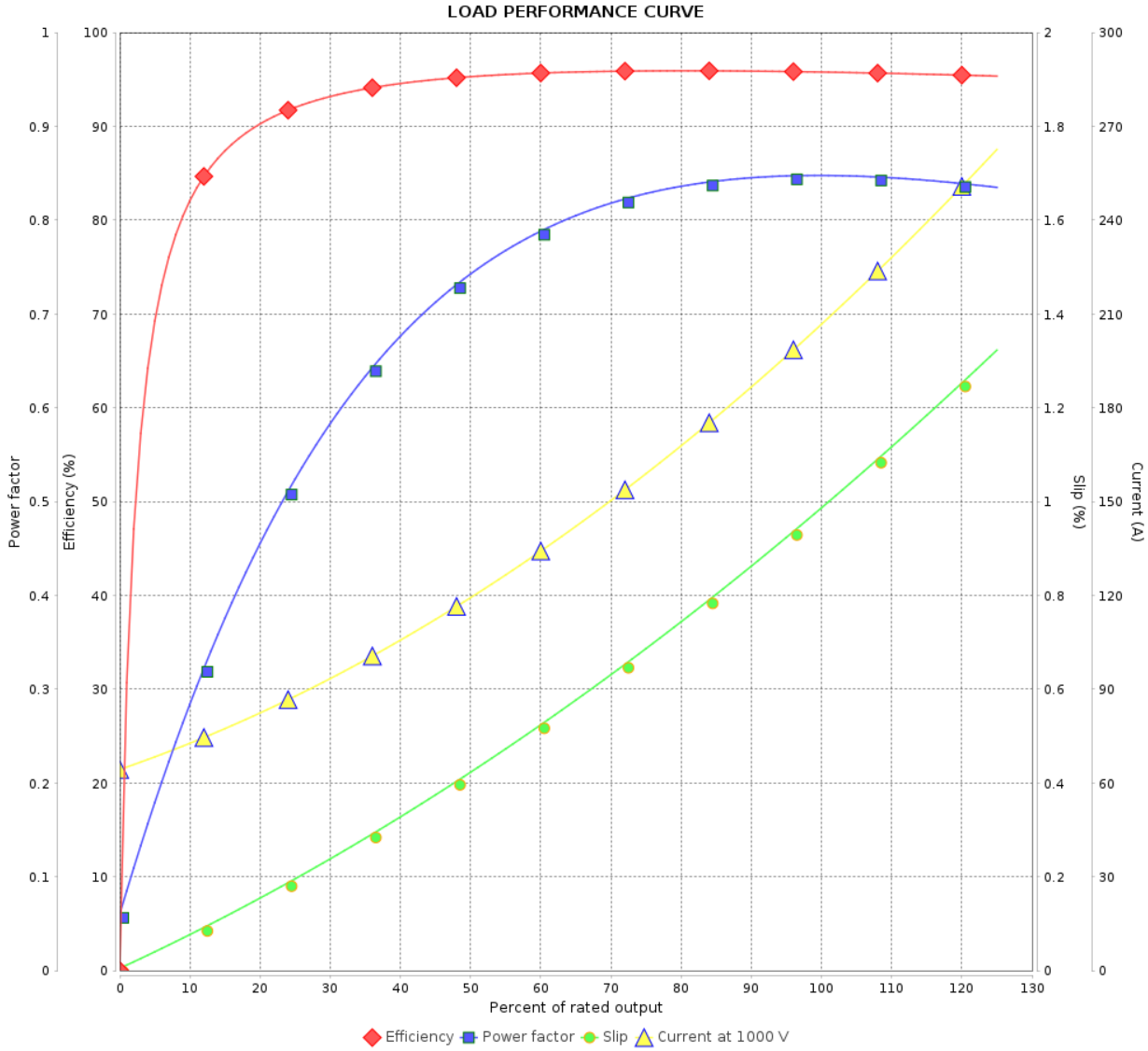
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 13781910



Performance : 1000 V 50 Hz 4P

Rated current : 78.2 A
 LRC : 6.6
 Rated torque : 73.3 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 210 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 2.98 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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