

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 16165610			
Frame	: 254/6T		Locked rotor time	: 55s (cold) 31s (hot)		
Output	: 15 HP (11 kW)		Temperature rise	: 80 K		
Poles	: 4		Duty cycle	: Cont.(S1)		
Frequency	: 50 Hz		Ambient temperature	: -20°C to +40°C		
Rated voltage	: 380/660 V		Altitude	: 1000 m.a.s.l.		
Rated current	: 21.8/12.6 A		Protection degree	: IP55		
L. R. Amperes	: 155/89.1 A		Cooling method	: IC411 - TEFC		
LRC	: 7.1x(Code H)		Mounting	: F-1		
No load current	: 8.30/4.78 A		Rotation <sup>1</sup>	: Both (CW and CCW)		
Rated speed	: 1470 rpm		Noise level <sup>2</sup>	: 61.0 dB(A)		
Slip	: 2.00 %		Starting method	: Direct On Line		
Rated torque	: 7.41 kgfm		Approx. weight <sup>3</sup>	: 146 kg		
Locked rotor torque	: 240 %					
Breakdown torque	: 270 %					
Insulation class	: F					
Service factor	: 1.15					
Moment of inertia (J)	: 0.1743 kgm <sup>2</sup>					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	91.7	92.4	92.4	Max. traction : 241 kgf		
Power Factor	0.68	0.78	0.83	Max. compression : 388 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)
8.1	7.0	6.5	3.8	2.7	1.7	1.2
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6309 C3		6209 C3		
Sealing	:	V'Ring		V'Ring		
Lubrication interval	:	20000 h		20000 h		
Lubricant amount	:	13 g		9 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.		
Rev.	Changes Summary			Performed	Checked	Date
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Checked by					Page	Revision
Date	22/10/2023				1 / 2	

# LOAD PERFORMANCE CURVE

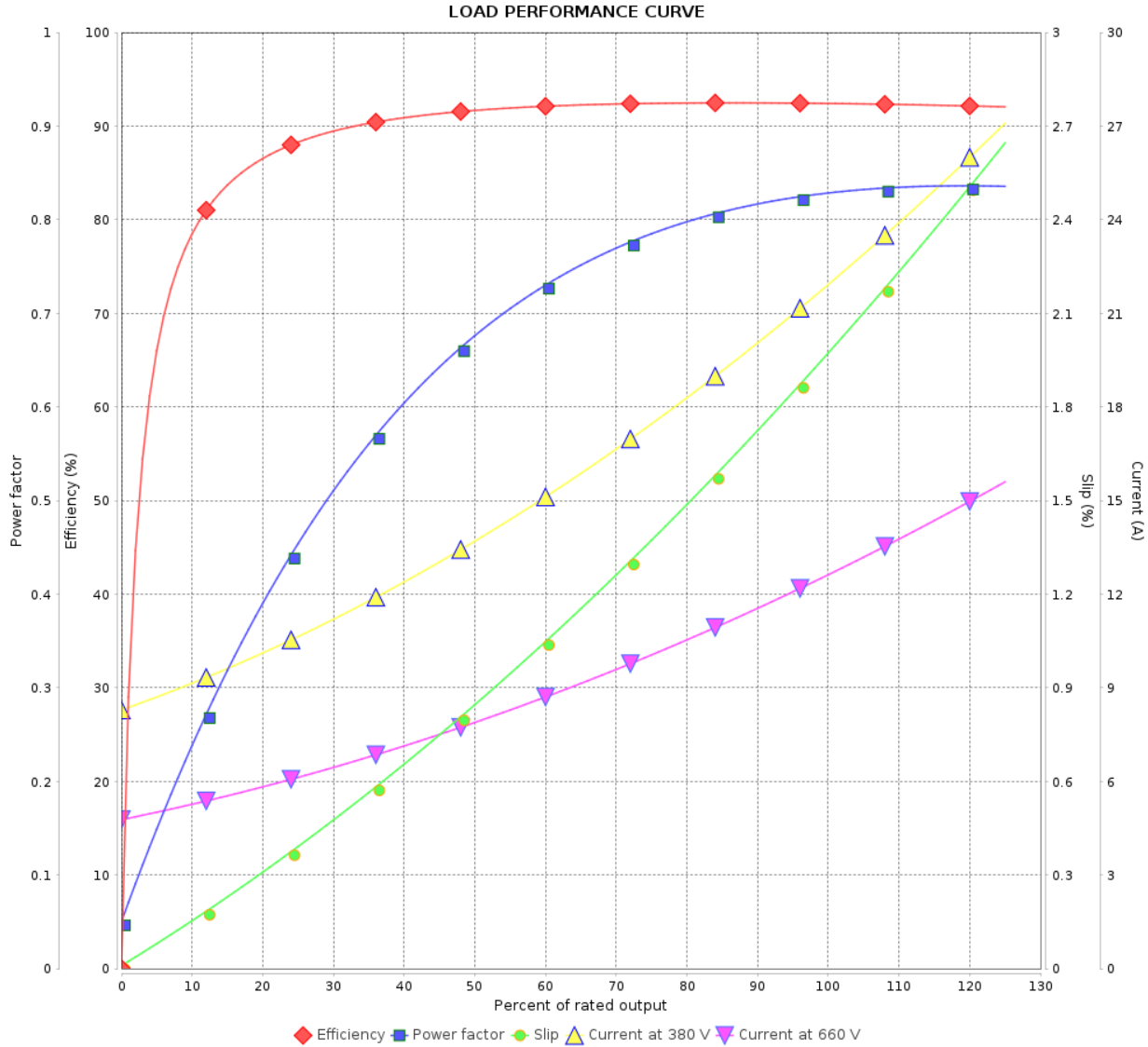
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 16165610



Performance : 380/660 V 50 Hz 4P

Rated current : 21.8/12.6 A  
 LRC : 7.1  
 Rated torque : 7.41 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 270 %  
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.1743 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : B

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