

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: ODP NEMA Premium Efficiency Three-Phase		Product code : 10702975		
Frame	:	254T		Locked rotor time	: 21s (cold) 12s (hot)	
Output	:	20 HP (15 kW)		Temperature rise	: 80 K	
Poles	:	2		Duty cycle	: Cont.(S1)	
Frequency	:	60 Hz		Ambient temperature	: -20°C to +40°C	
Rated voltage	:	575 V		Altitude	: 1000 m.a.s.l.	
Rated current	:	19.7 A		Protection degree	: IP23	
L. R. Amperes	:	110 A		Cooling method	: IC01 - ODP	
LRC	:	5.6x(Code F)		Mounting	: F-1	
No load current	:	7.28 A		Rotation <sup>1</sup>	: Both (CW and CCW)	
Rated speed	:	3520 rpm		Noise level <sup>2</sup>	: 66.0 dB(A)	
Slip	:	2.22 %		Starting method	: Direct On Line	
Rated torque	:	4.12 kgfm		Approx. weight <sup>3</sup>	: 90.9 kg	
Locked rotor torque	:	160 %				
Breakdown torque	:	250 %				
Insulation class	:	F				
Service factor	:	1.15				
Moment of inertia (J)	:	0.0309 kgm <sup>2</sup>				
Design	:	B				
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	88.6	89.5	90.2	91.0	Max. traction : 116 kgf	
Power Factor	0.46	0.71	0.80	0.84	Max. compression : 207 kgf	
			<u>Drive end</u>		<u>Non drive end</u>	
Bearing type	:	6309 Z C3		6209 Z C3		
Sealing	:	Without Bearing Seal		Without Bearing Seal		
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.			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
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# LOAD PERFORMANCE CURVE

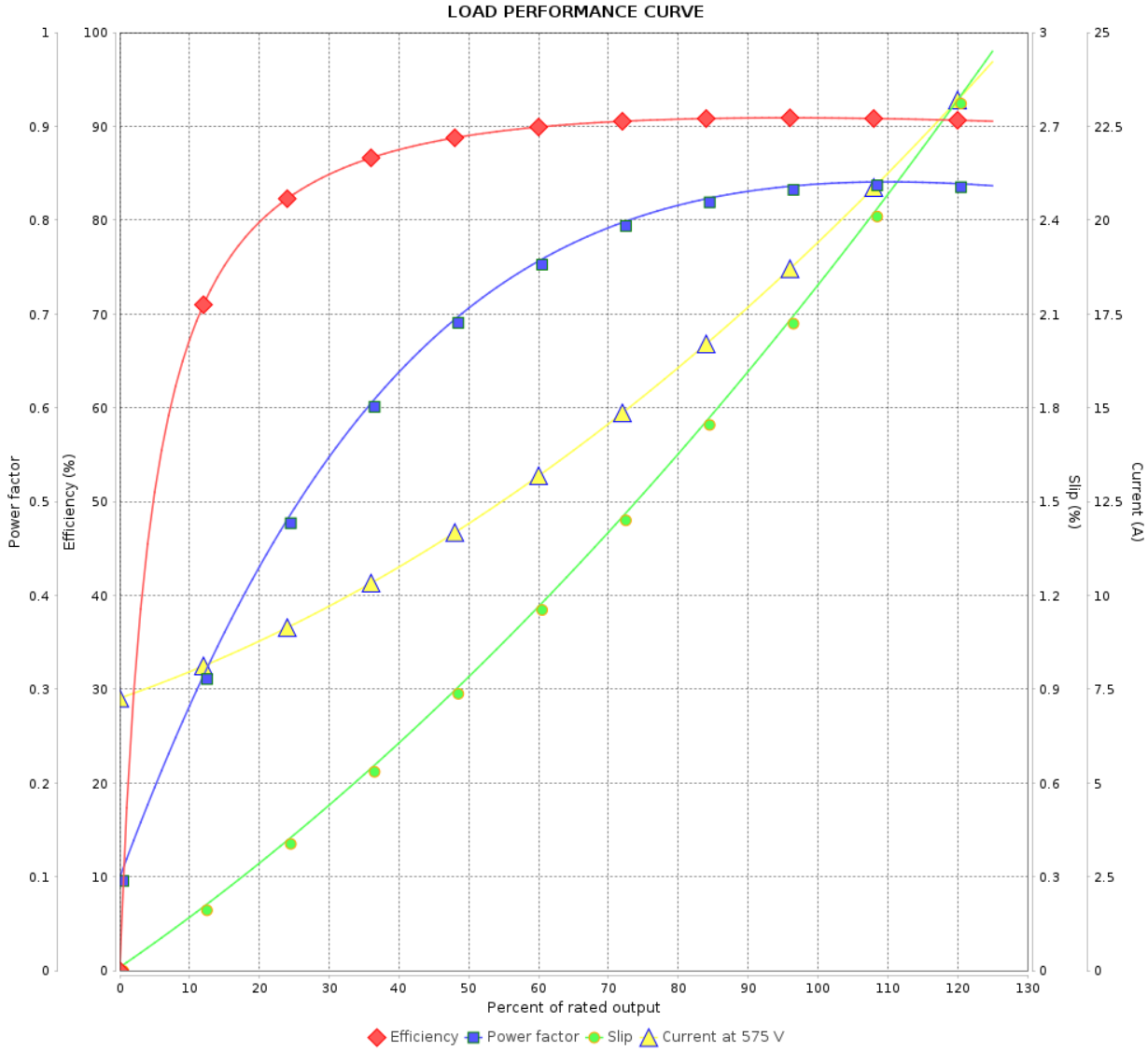
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10702975



Performance : 575 V 60 Hz 2P

Rated current : 19.7 A  
 LRC : 5.6  
 Rated torque : 4.12 kgfm  
 Locked rotor torque : 160 %  
 Breakdown torque : 250 %  
 Rated speed : 3520 rpm

Moment of inertia (J) : 0.0309 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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