

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: ODP NEMA Premium Efficiency Three-Phase		Product code : 12422602			
Frame	:	254TC		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 ¹	:	Both (CW and CCW)	
Rated speed	:	3520 rpm		Noise level ²	:	66.0 dB(A)	
Slip	:	2.22 %		Starting method	:	Direct On Line	
Rated torque	:	4.12 kgfm		Approx. weight ³	:	90.0 kg	
Locked rotor torque	:	160 %					
Breakdown torque	:	250 %					
Insulation class	:	F					
Service factor	:	1.15					
Moment of inertia (J)	:	0.0309 kgm ²					
Design	:	B					
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	89.5	90.2	91.0	Max. traction		: 117 kgf	
Power Factor	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. (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	
Performed by							
Checked by					Page	Revision	
Date	05/05/2024				1 / 2		

LOAD PERFORMANCE CURVE

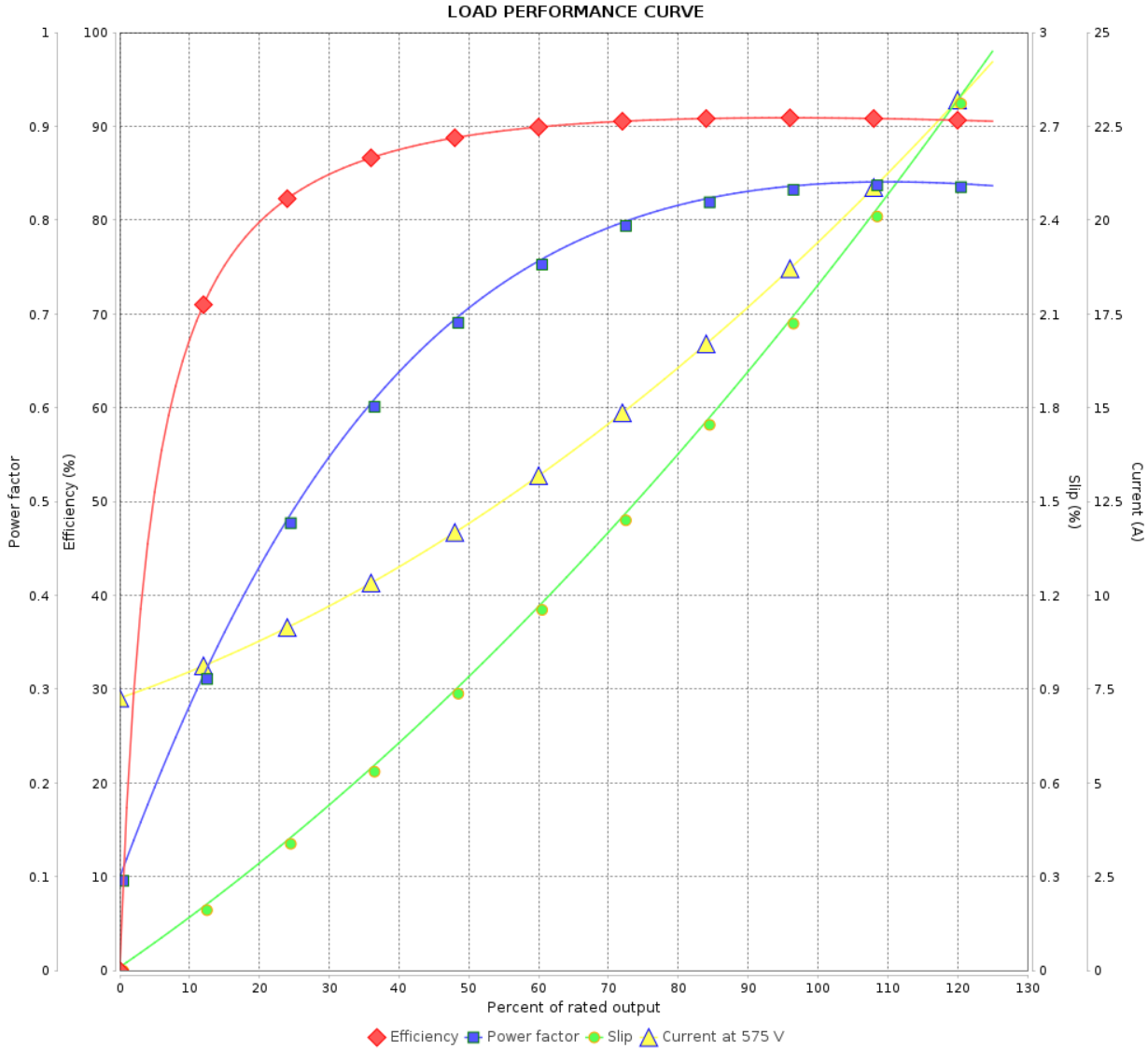
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 12422602



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

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	05/05/2024			