

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 14025259				
Frame	:	445/7T	Locked rotor time	:	43s (cold) 24s (hot)		
Output	:	125 HP	Temperature rise	:	80 K		
Poles	:	8	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	:	121 A	Protection degree	:	IP55		
L. R. Amperes	:	725 A	Cooling method	:	IC411 - TEFC		
LRC	:	6.0x(Code G)	Mounting	:	F-1		
No load current	:	52.0 A	Rotation ¹	:	Both (CW and CCW)		
Rated speed	:	889 rpm	Noise level ²	:	63.0 dB(A)		
Slip	:	1.22 %	Starting method	:	Direct On Line		
Rated torque	:	102 kgfm	Approx. weight ³	:	924 kg		
Locked rotor torque	:	180 %					
Breakdown torque	:	210 %					
Insulation class	:	F					
Service factor	:	1.15					
Moment of inertia (J)	:	4.37 kgm ²					
Design	:	B					
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	94.5	94.5	94.5	Max. traction	:	1412 kgf	
Power Factor	0.64	0.74	0.79	Max. compression	:	2336 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)	
5.6	4.6	4.2	2.8	1.9	1.3	0.9	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6319 C3		6316 C3			
Sealing	:	WSeal		WSeal			
Lubrication interval	:	17000 h		20000 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.			
Rev.	Changes Summary			Performed	Checked	Date	
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LOAD PERFORMANCE CURVE

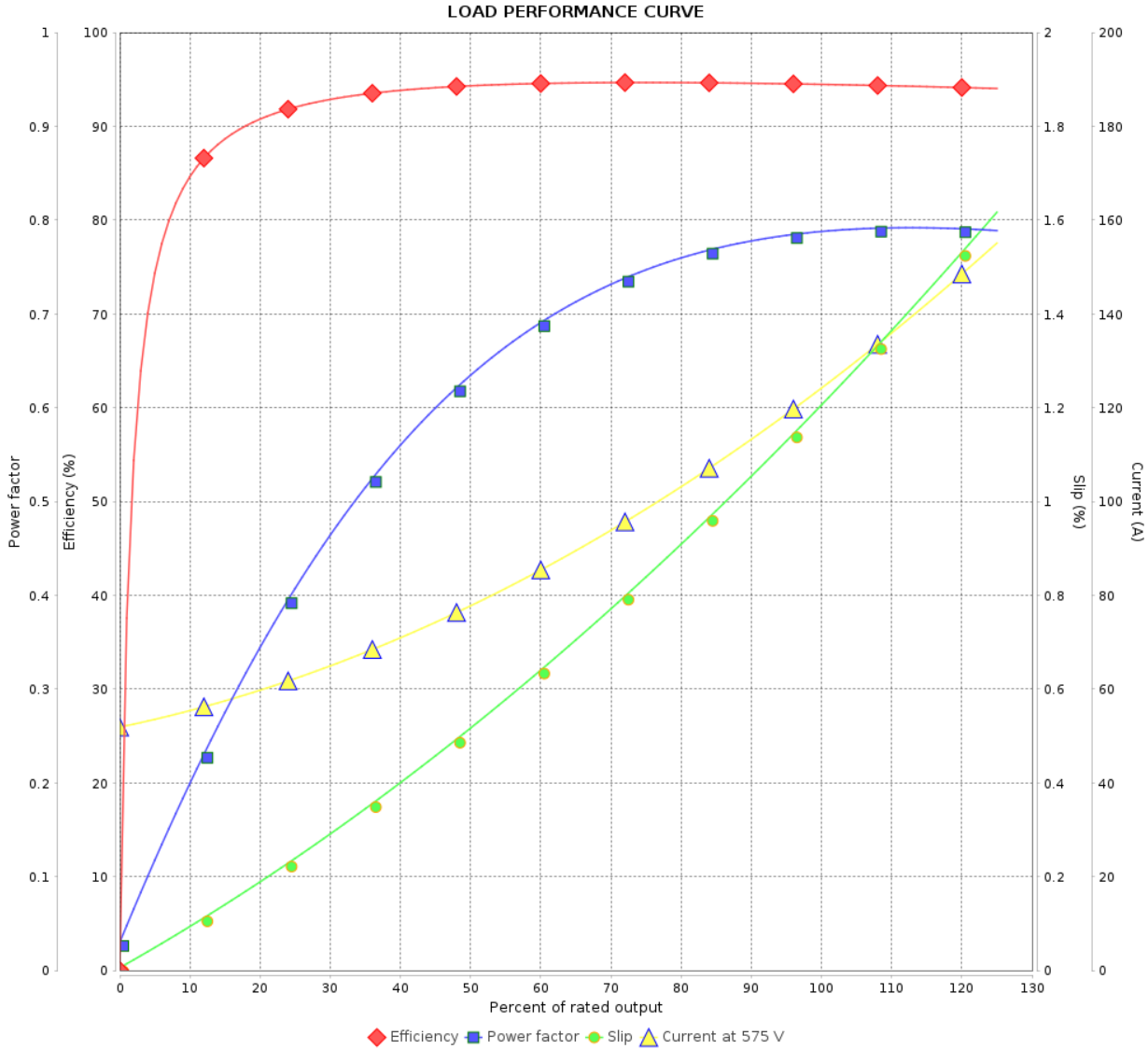
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14025259



Performance : 575 V 60 Hz 8P

Rated current	: 121 A	Moment of inertia (J)	: 4.37 kgm ²
LRC	: 6.0	Duty cycle	: Cont.(S1)
Rated torque	: 102 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 889 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
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Date	22/10/2023			