

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 11165695			
Frame	: 364/5TS			Locked rotor time	: 25s (cold) 14s (hot)	
Output	: 60 HP (45 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	: 53.6 A			Protection degree	: IP55	
L. R. Amperes	: 354 A			Cooling method	: IC411 - TEFC	
LRC	: 6.6x(Code G)			Mounting	: F-1	
No load current	: 12.8 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 3555 rpm			Noise level ²	: 79.0 dB(A)	
Slip	: 1.25 %			Starting method	: Direct On Line	
Rated torque	: 12.2 kgfm			Approx. weight ³	: 385 kg	
Locked rotor torque	: 200 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 0.4485 kgm ²					
Design	: B					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	91.7	93.0	93.6	Max. traction	: 165 kgf	
Power Factor	0.81	0.88	0.90	Max. compression	: 550 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)
6.3	4.7	4.4	3.3	1.7	1.1	0.6
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	4000 h		4000 h		
Lubricant amount	:	27 g		27 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	19/08/2023				1 / 2	

LOAD PERFORMANCE CURVE

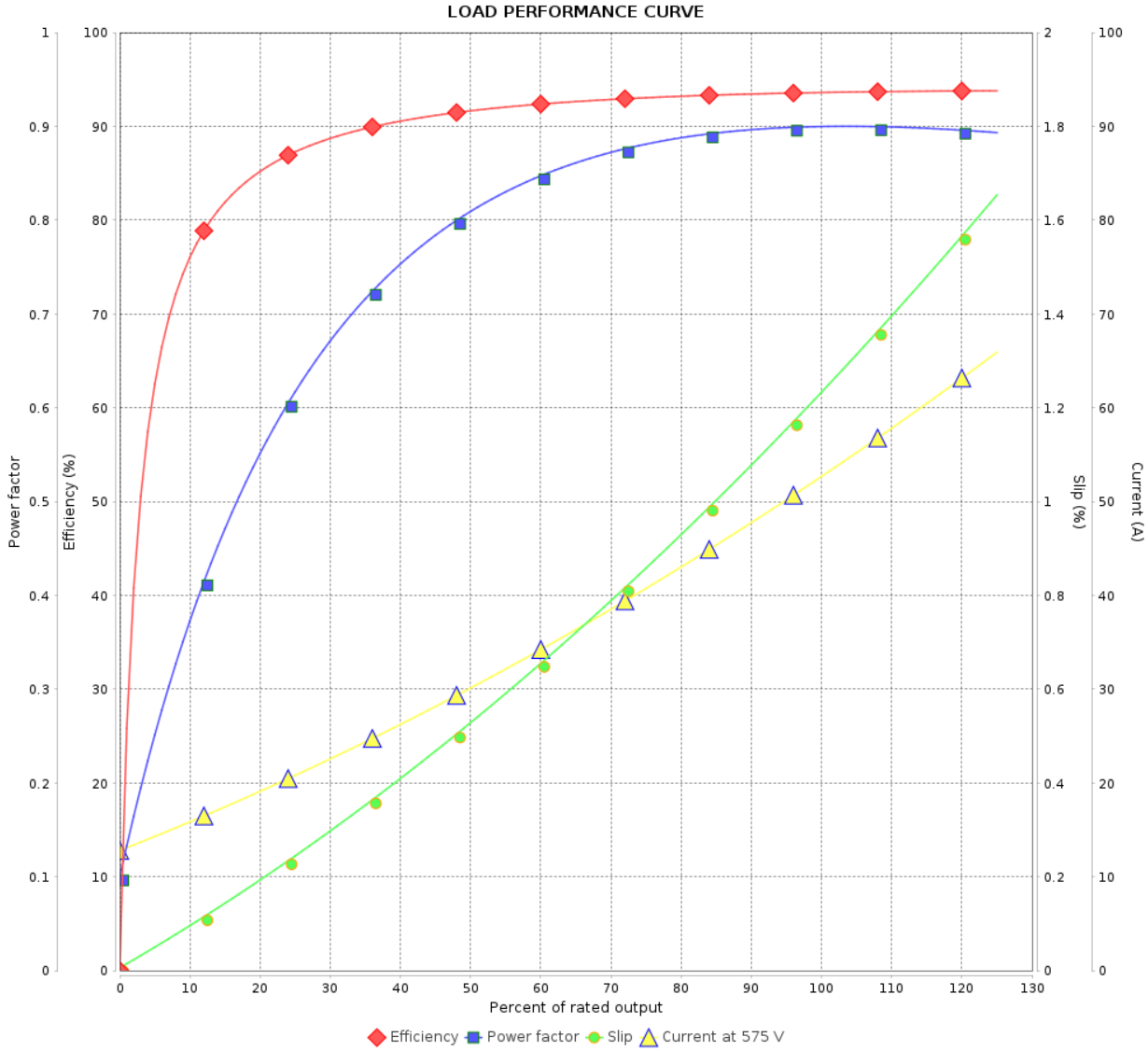
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11165695



Performance : 575 V 60 Hz 2P

Rated current : 53.6 A
 LRC : 6.6
 Rated torque : 12.2 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 260 %
 Rated speed : 3555 rpm

Moment of inertia (J) : 0.4485 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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