### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Close Coupled Pump JM NEMA Product code: 12602714 Premium Efficiency Three-Phase : 284/6JM Cooling method Frame : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 160 kg Protection degree : IP55 Moment of inertia (J) : 0.1135 kgm<sup>2</sup> Design : B Output [HP] 25 20 20 25 20 25 25 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 35.3 57.5/28.8 28.2 27.1 26.4 33.6 32.1 L. R. Amperes [A] 363/181 175 187 198 173 185 199 LRC [A] 6.3x(Code 6.2x(Code | 6.9x(Code H) | 7.5x(Code J) | 4.9x(Code E) | 5.5x(Code F) | 6.2x(Code G) G) G) No load current [A] 16.3/8.15 7.70 8.40 9.00 7.70 8.40 9.00 Rated speed [RPM] 3545 2945 2951 2956 2915 2930 2940 Slip [%] 1.53 1.83 1.63 1.47 2.83 2.33 2.00 Rated torque [kgfm] 5.12 4.93 4.92 4.91 6.22 6.19 6.17 Locked rotor torque [%] 200 200 229 240 160 180 190 Breakdown torque [%] 250 240 280 300 190 210 240 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K Locked rotor time 25s (cold) 30s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 17s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 67.0 dB(A) Noise level<sup>2</sup> 72.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 90.8 89.0 89.4 88.9 91.5 91.5 90.9 50% 91.0 90.2 90.3 89.8 91.0 91.0 91.0 Efficiency (%) 75% 91.7 90.7 91.1 91.1 90.2 91.0 91.0 100% 91.7 91.9 91.9 91.9 89.5 90.2 91.0 25% 0.56 0.52 0.48 0.62 0.55 0.54 0.58 50% 0.78 0.79 0.76 0.73 0.83 0.79 0.81 Power Factor 75% 0.86 0.84 0.82 0.88 0.85 0.85 0.87 100% 0.88 0.88 0.87 0.86 0.89 0.88 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.1 7.9 7.9 7.9 9.8 8.9 10.6 P2 (0,5;1,0) 5.5 5.6 5.5 5.5 7.3 6.7 6.1 P3 (0,25;1,0) 4.9 4.8 4.8 4.8 6.3 5.9 5.3 P4 (0,9;0,5) 4.8 4.6 4.6 4.6 6.2 5.7 5.2 Losses (%) P5 (0,5;0,5) 2.5 2.4 2.4 2.4 3.2 2.9 2.7 P6 (0,5;0,25) 1.7 1.7 1.7 1.7 2.2 2.1 1.9 P7 0.9 0.9 0.9 1.2 1.1 0.9 1.0 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6311 C3 6211 C3 : 132 kgf Max. traction V'Ring V'Ring Sealing Max. compression : 292 kgf Lubrication interval 14000 h 17000 h 11 g Lubricant amount 18 q Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. MG-1. (1) Looking the motor from the shaft end. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

1/9

14/01/2024

# DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			шец
Customer	:			
Notes	: / 63.0A SF 1.10 SFA 69.3A			
Rev.	Changes Summary	Performed	Checked	Date

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	14/01/2024			2/9	

### Three Phase Induction Motor - Squirrel Cage

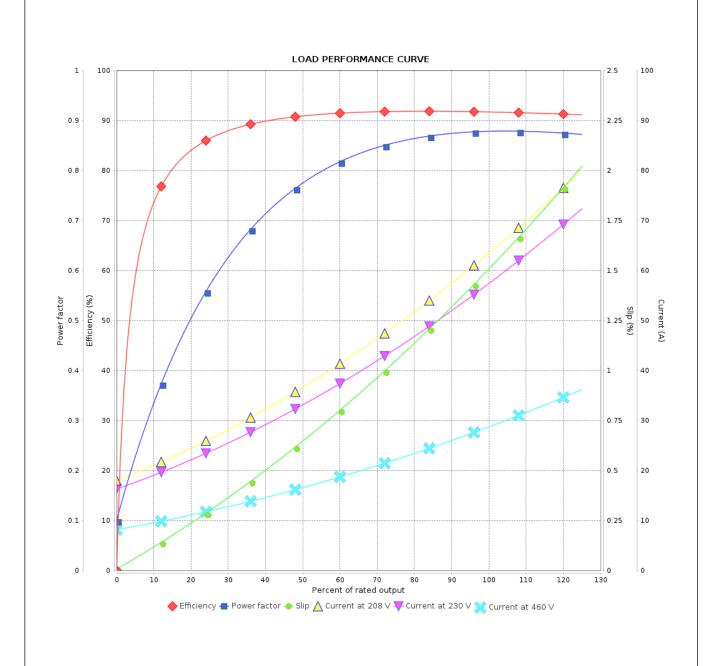


Customer :

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12602714



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 57.5/28.8 A : 6.3 : 5.12 kgfm : 200 % : 250 % : 3545 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1135 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
Rev.	Changes Summary	·	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

3/9

14/01/2024

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

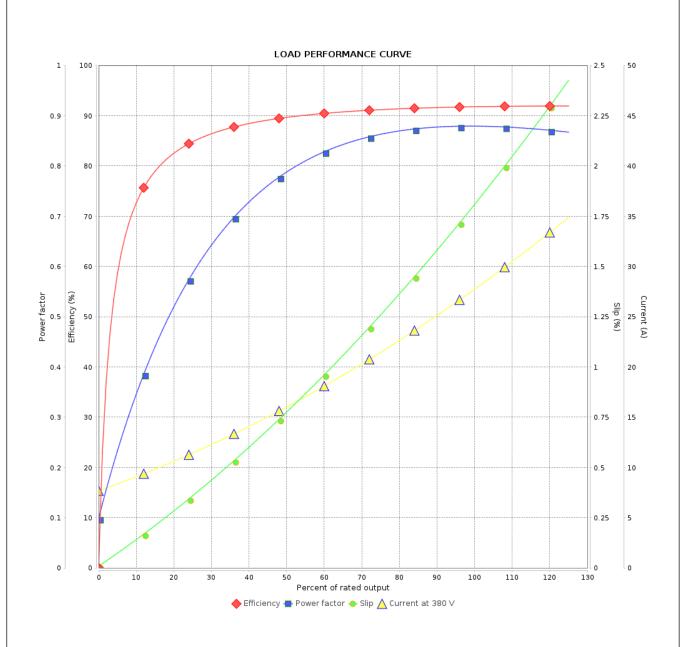
Date

14/01/2024

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12602714



Performance		: 380 V 50 Hz 2P I	E3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 28.2 A : 6.2 : 4.93 kgfm : 200 % : 240 % : 2945 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.1135 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Sumr	mary	Performed	Checked	Date
Performed by						

Page

4/9

Revision

### Three Phase Induction Motor - Squirrel Cage

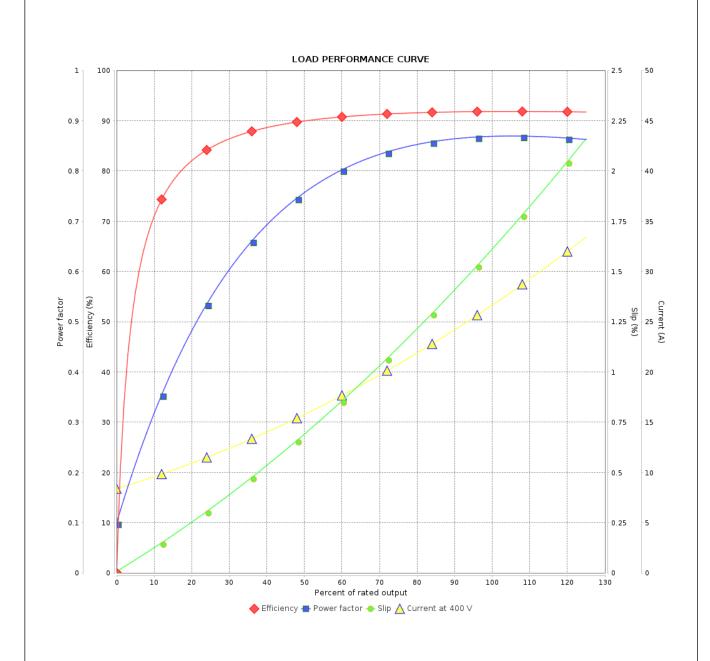


Customer :

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12602714



Performance	:	400 V 50 Hz 2P IE3				
Rated current	:	27.1 A	Moment o	Moment of inertia (J)		
LRC	:	6.9	Duty cycle	` '	: 0.1135 kgm² : Cont.(S1)	
Rated torque	:	4.92 kgfm	Insulation		: F ` ´	
Locked rotor torque		229 %	Service factor		: 1.00	
Breakdown torque	:	280 %	Temperature rise : 80 K Design : B			
Rated speed	:	2951 rpm			: B	
Rev.		Changes Summary	l .	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/01/2024				5/9	

### Three Phase Induction Motor - Squirrel Cage

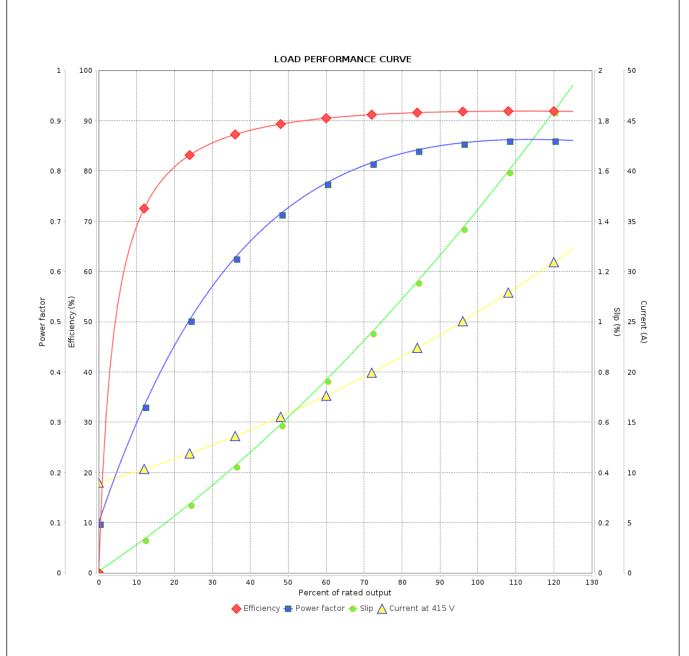


Customer :

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12602714



Performance	: 415 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 26.4 A : 7.5 : 4.91 kgfm : 240 % : 300 % : 2956 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1135 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	2
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

6/9

14/01/2024

### Three Phase Induction Motor - Squirrel Cage

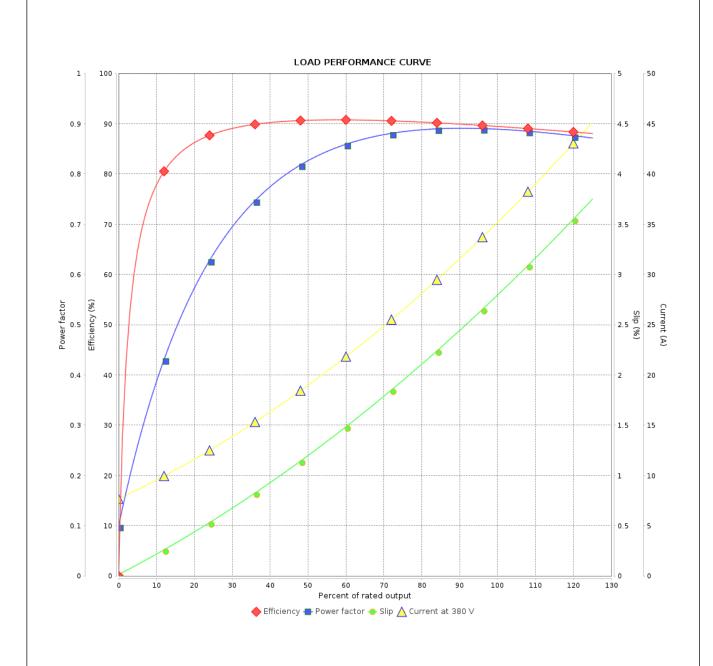


Customer

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12602714



Performance		880 V 50 Hz 2P IE1				
Rated current		85.3 A	Moment o	Moment of inertia (J)		!
LRC : 4.		l.9	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque :		6.22 kgfm	Insulation	class	: F	
Locked rotor torque		60 %	Service fa	Service factor		
Breakdown torque	: 1	90 %	Temperati	Temperature rise		
Rated speed	: 2	915 rpm	Design	Design		
Rev.		Changes Summar	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	14/01/2024				7/9	

### Three Phase Induction Motor - Squirrel Cage

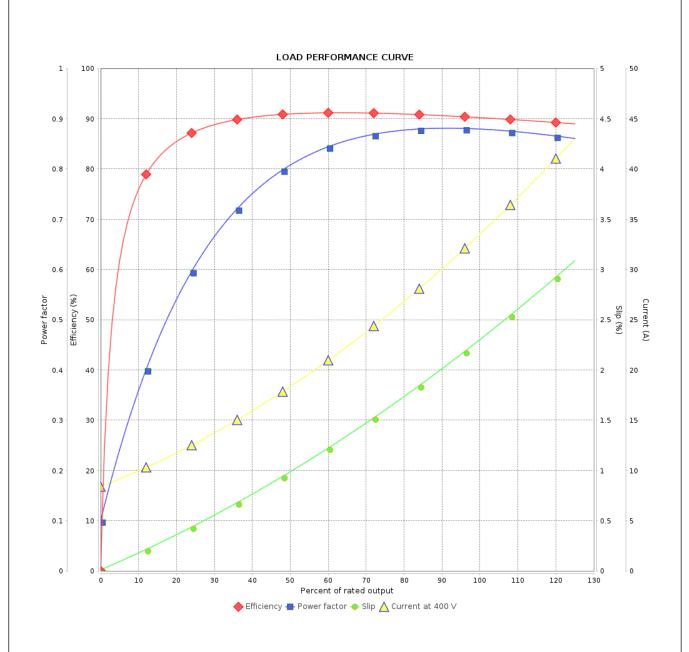


Customer

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12602714



Deufermen	. 400 \/ 50    - 00    54	·		
Performance	: 400 V 50 Hz 2P IE1			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 33.6 A : 5.5 : 6.19 kgfm : 180 % : 210 % : 2930 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1135 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

8/9

14/01/2024

### Three Phase Induction Motor - Squirrel Cage

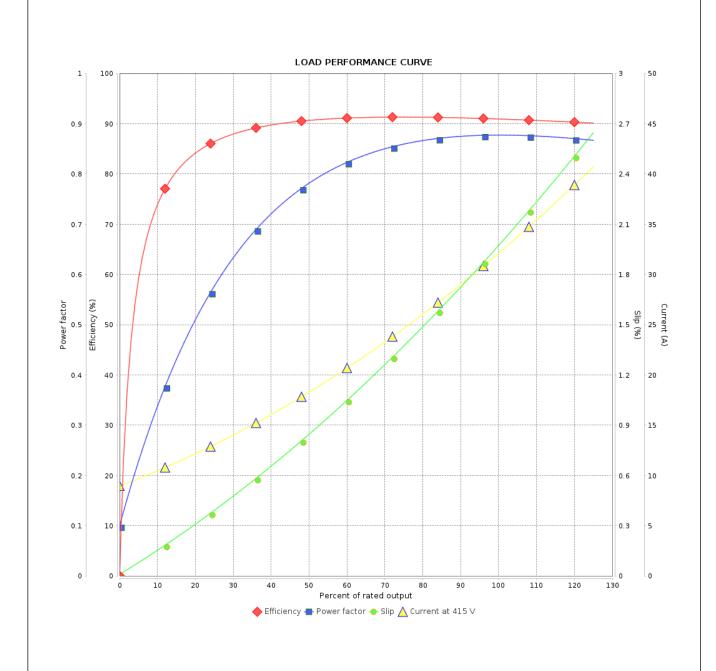


Customer :

Product line : W22 Close Coupled Pump JM NEMA

Premium Efficiency Three-Phase

Product code: 12602714



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 32.1 A : 6.2 : 6.17 kgfm : 190 % : 240 % : 2940 rpm	Duty cycle Insulation claused Service factor	Insulation class Service factor Temperature rise		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

9/9

14/01/2024