



Customer Document title:

## Motor Typical Performance Data

Flowserve Document title: **Motor Typical Performance Data**

Flowserve Document No.: **1400944-008-5955-01**

Document Revision No.: **A**

Flowserve Order No.: **1400944**

Flowserve Serial No.: **1400944CHP008A/F**

Pump Type/Size: **MARK 3 STANDARD / 2K4X3-10RV**

Quantity: **6**

Customer Name: **DESMET BALLESTRA NORTH AMERICA**

Customer Tag No: **DESMET TAG#: P604B.2/1, WORLD ENERGY TAG#: 19-P-863A, DESMET TAG#: P604B.2/2, WORLD ENERGY TAG#: 19-P-863B, DESMET TAG#: P604B1.1/1, WORLD ENERGY TAG#: 19-P-763A, DESMET TAG#: P604B1.1/2, WORLD ENERGY TAG#: 19-P-763B, DESMET TAG#: P604B2.1/1, WORLD ENERGY TAG#: 19-P-763C, DESMET TAG#: P604B2.1/2, WORLD ENERGY TAG#: 19-P-763D**

Customer PO No.: **28493**

End User: **DESMET BALLESTRA NORTH AMERICA**

### Please complete and return:

Document Reviewed by:

Document Reviewed date:

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- Corrections, alterations, additions and/or modifications outside scope of contract or made after first submittal may require an additional engineering service charge.
- Items conditionally approved or with deferred approval by purchaser must be specifically stated otherwise delivery may be affected.

Rev	Revision Description	Released	Release Date
	For Review	Morris, Tamika	15-Dec-21

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line		: W22 IEEE 841 NEMA Premium Efficiency Three-Phase		Product code : 12447815	
				Catalog # : 04036ST3QIE324TS-W22	
Frame : 324/6TS Output : 40 HP (30 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 460 V <b>3 phase</b> Rated current : 46.3 A L. R. Amperes : 292 A LRC : 6.3x(Code G) No load current : 11.0 A Rated speed : 3555 rpm Slip : 1.25 % Rated torque : 59.1 ft.lb Locked rotor torque : 250 % Breakdown torque : 240 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 4.90 sq.ft.lb Design : B		Locked rotor time : 81s (cold) 45s (hot) Temperature rise : 80 K Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Cooling method : IC411 - TEFC <b>T3C</b> Mounting : F-1 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 76.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 535 lb  <b>For starting - WEG standard is 2 cold starts / 1 hot start per hour.</b>			
Output	50%	75%	100%	Foundation loads	
Efficiency (%)	91.7	92.4	92.4	Max. traction : 361 lb	
Power Factor	0.80	0.86	0.88	Max. compression : 896 lb	
		<u>Drive end</u>	<u>Non drive end</u>		
Bearing type	:	6312 C3	6212 C3		
Sealing	:	Inpro/Seal	Inpro/Seal		
Lubrication interval	:	12000 h	15000 h		
Lubricant amount	:	21 g	13 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					
Date	14/09/2021			Page 1 / 6	Revision 1

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

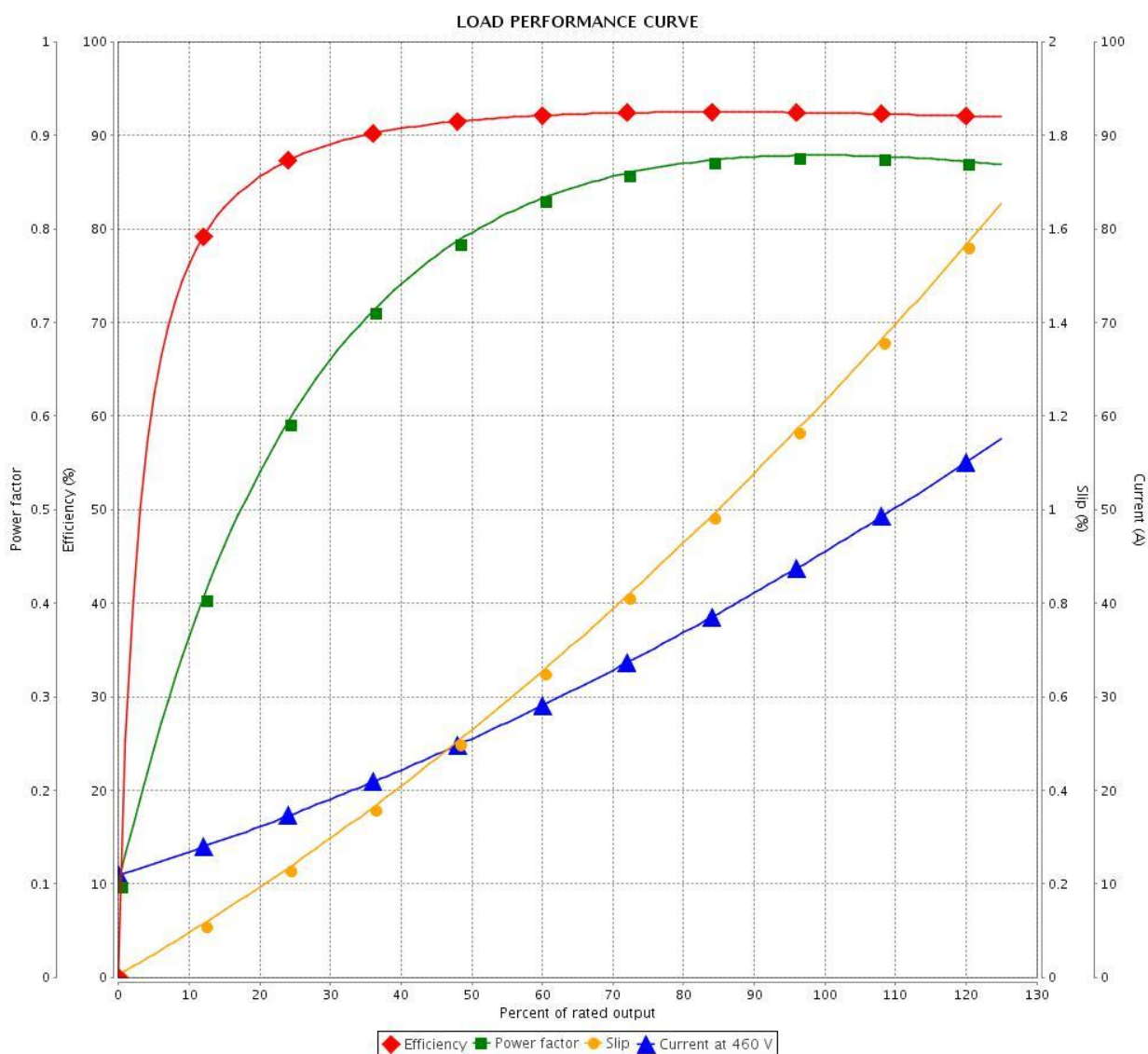


Customer :

Product line : W22 IEEE 841 NEMA Premium  
Efficiency Three-Phase

Product code : 12447815

Catalog # : 04036ST3QIE324TS-W22



Performance : 460 V 60 Hz

Rated current : 46.3 A  
LRC : 6.3  
Rated torque : 59.1 ft.lb  
Locked rotor torque : 250 %  
Breakdown torque : 240 %  
Rated speed : 3555 rpm

Moment of inertia (J) : 4.90 sq.ft.lb  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 6		
Checked by				
Date	14/09/2021			