



Customer Document title:

Motor Typical Performance Data

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

Flowserve Document No.: **1400944-007-5955-01**

Document Revision No.: **A**

Flowserve Order No.: **1400944**

Flowserve Serial No.: **1400944CHP007A/D**

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

Quantity: **4**

Customer Name: **DESMET BALLESTRA NORTH AMERICA**

Customer Tag No: **DESMET TAG#: P601.1/1, WORLD ENERGY TAG#: 19-P-760A, DESMET TAG#: P601.1/2, WORLD ENERGY TAG#: 19-P-760B, DESMET TAG#: P601.2/1, WORLD ENERGY TAG#: 19-P-860A, DESMET TAG#: P601.2/2, WORLD ENERGY TAG#: 19-P-860B**

Customer PO No.: **28493**

End User: **DESMET BALLESTRA NORTH AMERICA**

Please complete and return:

Document Reviewed by:

Document Reviewed date:

- ☐ **APPROVED. NO ACTION REQUIRED**
- ☐ **APPROVED. RE-SUBMIT AS FINAL**
- ☐ **APPROVED WITH COMMENTS.** DOCUMENT WILL BE MODIFIED AND RESUBMITTED AS FINAL.
- ☐ **REJECTED.** CORRECT AND RE-SUBMIT FOR APPROVAL.
- ☐ **FOR INFORMATION.** REVIEW NOT REQUIRED
- ☐ **AS-BUILT**

- Return any documents sent for review with your comments by the stated return date. All documents not returned two weeks after requested Return date will be considered Approved, no action.
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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 : 11431306																		
				Catalog # : 05036ST3QIE326TS-W22																		
Frame : 324/6TS Output : 50 HP (37 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 460 V 3 phase Rated current : 56.7 A L. R. Amperes : 357 A LRC : 6.3x(Code G) No load current : 14.0 A Rated speed : 3555 rpm Slip : 1.25 % Rated torque : 73.9 ft.lb Locked rotor torque : 240 % Breakdown torque : 229 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 5.75 sq.ft.lb Design : B		Locked rotor time : 63s (cold) 35s (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 T3C Mounting : F-1 Rotation ¹ : Both (CW and CCW) Noise level ² : 76.0 dB(A) Starting method : Direct On Line VFD Approx. weight ³ : 560 lb For starting - WEG standard is 2 cold starts / 1 hot start per hour.																				
Output	25%	50%	75%	100%																		
Efficiency (%)	92.9	93.0	93.0	93.0																		
Power Factor	0.58	0.81	0.87	0.88																		
		Foundation loads																				
		Max. traction : 471 lb																				
		Max. compression : 1031 lb																				
		<table border="0"> <thead> <tr> <th></th> <th>Drive end</th> <th>Non drive end</th> </tr> </thead> <tbody> <tr> <td>Bearing type :</td> <td>6312 C3</td> <td>6212 C3</td> </tr> <tr> <td>Sealing :</td> <td>Inpro/Seal</td> <td>Inpro/Seal</td> </tr> <tr> <td>Lubrication interval :</td> <td>12000 h</td> <td>15000 h</td> </tr> <tr> <td>Lubricant amount :</td> <td>21 g</td> <td>13 g</td> </tr> <tr> <td>Lubricant type :</td> <td colspan="2">Mobil Polyrex EM</td> </tr> </tbody> </table>				Drive end	Non drive end	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	
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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																		
Performed by																						
Checked by			Page	Revision																		
Date	24/06/2021		1 / 6																			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

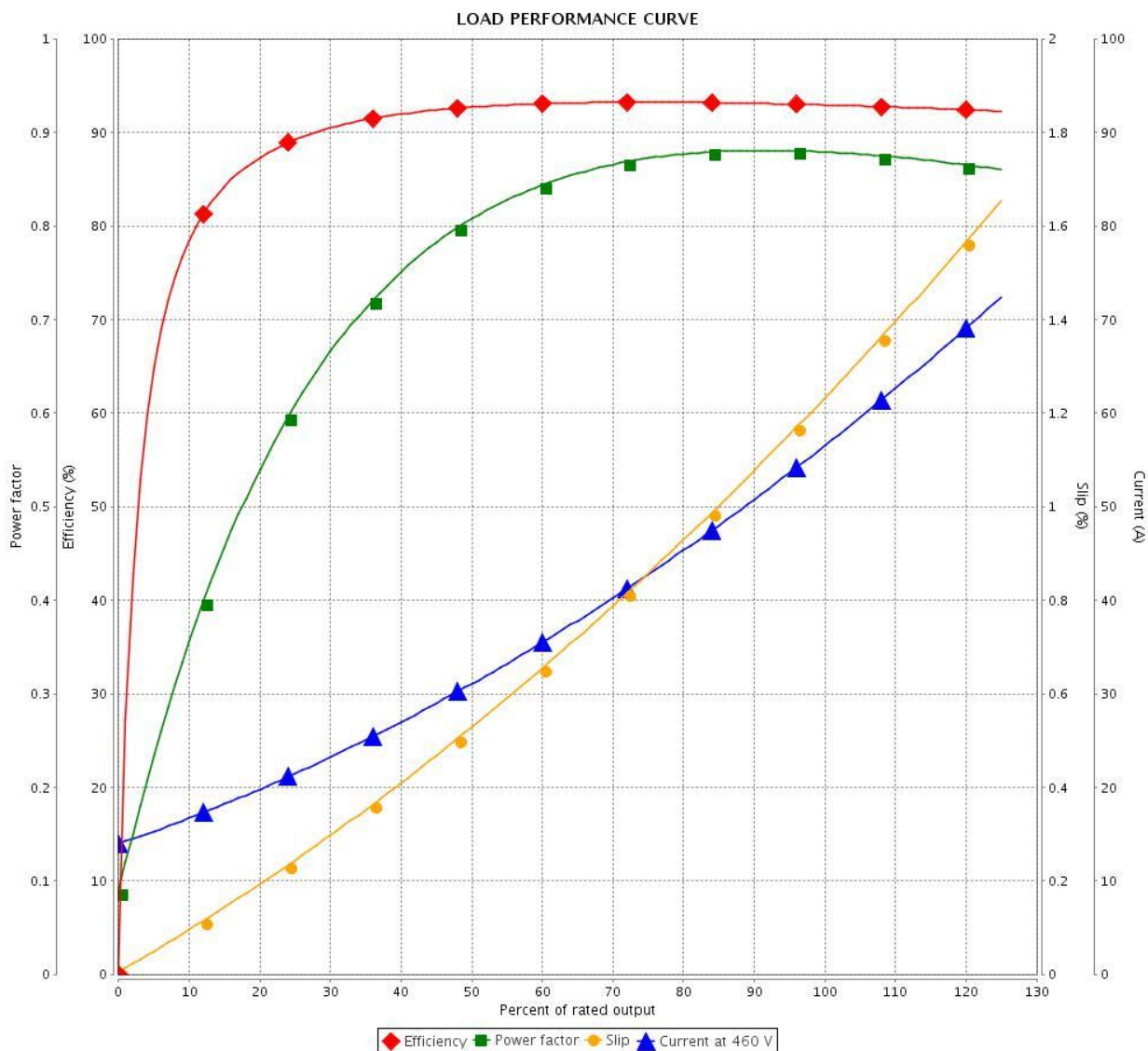


Customer : _____

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

Product code : 11431306

Catalog # : 05036ST3QIE326TS-W22



Performance : 460 V 60 Hz ~~CB~~

Rated current : 56.7 A
LRC : 6.3
Rated torque : 73.9 ft.lb
Locked rotor torque : 240 %
Breakdown torque : 229 %
Rated speed : 3555 rpm

Moment of inertia (J) : 5.75 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		<div>Page 3 / 6</div> <div>Revision 1</div>		
Checked by				
Date	24/06/2021			