



Customer Document title:

## Motor Typical Performance Data

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

Flowserve Document No.: **1400944-009-5955-01**

Document Revision No.: **A**

Flowserve Order No.: **1400944**

Flowserve Serial No.: **1400944CHP009A/B**

Pump Type/Size: **MARK 3 LO-FLO / 1K1.5X1LF-82OP**

Quantity: **2**

Customer Name: **DESMET BALLESTRA NORTH AMERICA**

Customer Tag No: **DESMET TAG#: P632A1, World Energy TAG#: 19-P-767A, DESMET TAG#: P632A2, World Energy TAG#: 19-P-767B**

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.
- Purchaser's comments and/or corrections within the scope of contract will be made on the first completed document submitted by Flowserve Corp. and returned.
- 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 : 12378984																									
				Catalog # : 00736ST3QIE213T-W22																									
Frame : 213/5T Output : 7.5 HP (5.5 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 460 V Rated current : 8.76 A L. R. Amperes : 63.1 A LRC : 7.2x(Code H) No load current : 2.70 A Rated speed : 3520 rpm Slip : 2.22 % Rated torque : 11.0 ft.lb Locked rotor torque : 210 % Breakdown torque : 300 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.4665 sq.ft.lb Design : B			Locked rotor time : 39s (cold) 22s (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 Mounting : F-1 Rotation <sup>1</sup> : Both (CW and CCW) Noise level <sup>2</sup> : 68.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 151 lb  <b>For starting - WEG standard is 2 cold starts / 1 hot start per hour.</b>																										
Output	25%	50%	75%	100%	Foundation loads																								
Efficiency (%)	87.2	87.5	89.5	89.5	Max. traction : 137 lb																								
Power Factor	0.52	0.75	0.84	0.88	Max. compression : 289 lb																								
<table border="0"> <tr> <td></td> <td></td> <td><u>Drive end</u></td> <td><u>Non drive end</u></td> </tr> <tr> <td>Bearing type</td> <td>:</td> <td>6308 C3</td> <td>6207 C3</td> </tr> <tr> <td>Sealing</td> <td>:</td> <td>Inpro/Seal</td> <td>Inpro/Seal</td> </tr> <tr> <td>Lubrication interval</td> <td>:</td> <td>20000 h</td> <td>20000 h</td> </tr> <tr> <td>Lubricant amount</td> <td>:</td> <td>11 g</td> <td>7 g</td> </tr> <tr> <td>Lubricant type</td> <td>:</td> <td colspan="2">Mobil Polyrex EM</td> </tr> </table>								<u>Drive end</u>	<u>Non drive end</u>	Bearing type	:	6308 C3	6207 C3	Sealing	:	Inpro/Seal	Inpro/Seal	Lubrication interval	:	20000 h	20000 h	Lubricant amount	:	11 g	7 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	13/11/2019			1 / 6																									

# LOAD PERFORMANCE CURVE

## Three Phase Induction Motor - Squirrel Cage

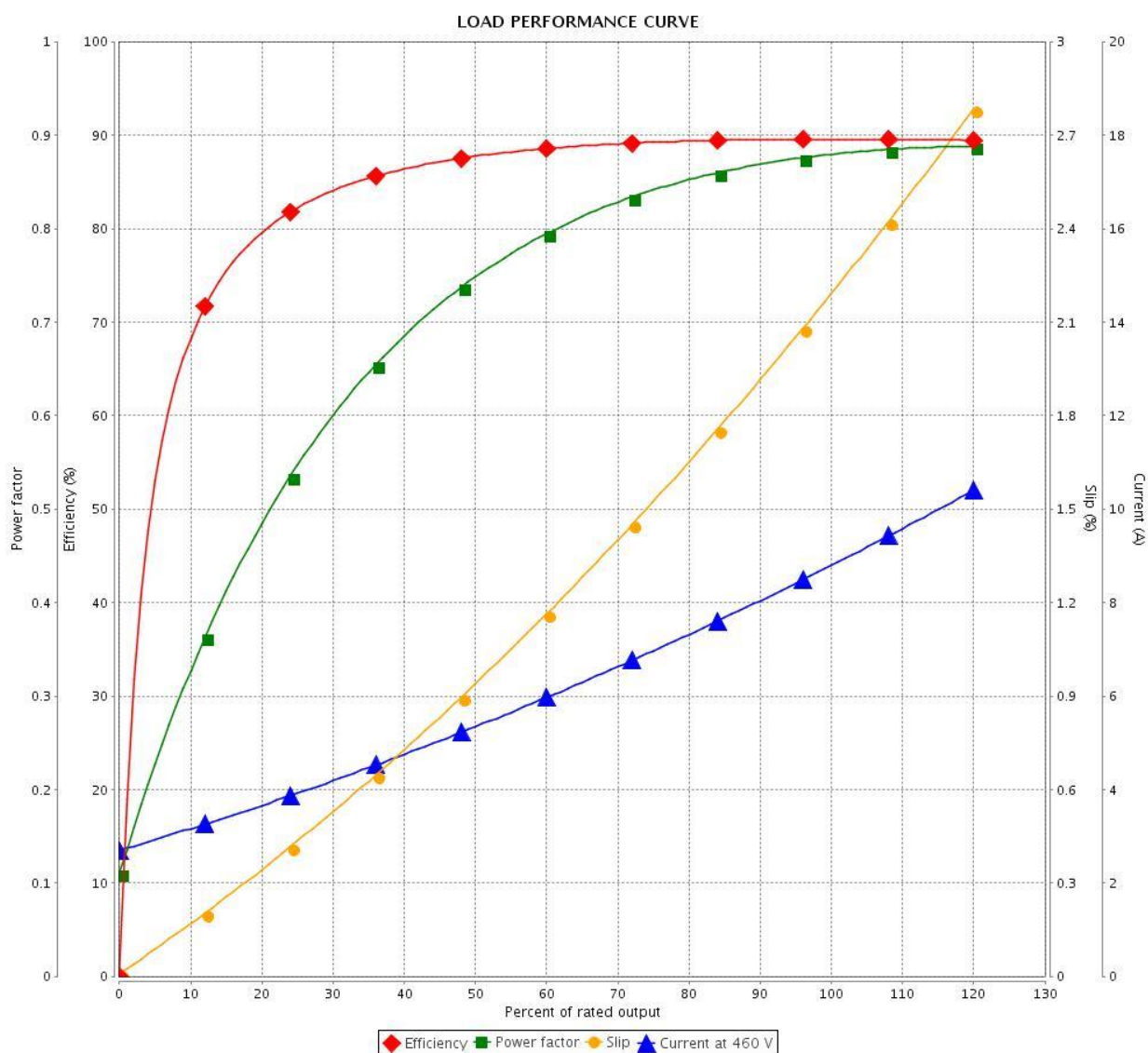


Customer : \_\_\_\_\_

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

Product code : 12378984

Catalog # : 00736ST3QIE213T-W22



Performance : 460 V 60 Hz 2P

Rated current : 8.76 A  
LRC : 7.2  
Rated torque : 11.0 ft.lb  
Locked rotor torque : 210 %  
Breakdown torque : 300 %  
Rated speed : 3520 rpm

Moment of inertia (J) : 0.4665 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	13/11/2019			