



Customer Document title:

## Motor Typical Performance Data

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

Flowserve Document No.: **1400944-010-5955-01**

Document Revision No.: **A**

Flowserve Order No.: **1400944**

Flowserve Serial No.: **1400944CHP010A/B**

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

Quantity: **2**

Customer Name: **DESMET BALLESTRA NORTH AMERICA**

Customer Tag No: **DESMET TAG#: P632C1, World Energy TAG#: 19-P-766A, DESMET TAG#: P632C, World Energy TAG#: 19-P-766B**

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 :	11431312																		
Catalog # :	00536ST3QIE184T-W22																		
Frame : 182/4T Output : 5 HP (3.7 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 460 V <b>3 phase</b> Rated current : 5.90 A L. R. Amperes : 44.8 A LRC : 7.6x(Code J) No load current : 2.00 A Rated speed : 3485 rpm Slip : 3.19 % Rated torque : 1.04 kgfm Locked rotor torque : 229 % Breakdown torque : 350 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 0.0094 kgm <sup>2</sup> Design : B	Locked rotor time : 45s (cold) 25s (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> : 66.0 dB(A) Starting method : Direct On Line Approx. weight <sup>3</sup> : 46.1 kg  <b>For starting - WEG standard is 2 cold starts / 1 hot start per hour.</b>																		
Output	25% 50% 75% 100%																		
Efficiency (%)	86.1 86.5 88.5 88.5																		
Power Factor	0.51 0.76 0.85 0.89																		
Foundation loads	Max. traction : 61 kgf Max. compression : 107 kgf																		
	<table border="1"> <thead> <tr> <th></th> <th>Drive end</th> <th>Non drive end</th> </tr> </thead> <tbody> <tr> <td>Bearing type</td> <td>: 6207 C3</td> <td>6206 C3</td> </tr> <tr> <td>Sealing</td> <td>: Inpro/Seal</td> <td>Inpro/Seal</td> </tr> <tr> <td>Lubrication interval</td> <td>: 20000 h</td> <td>20000 h</td> </tr> <tr> <td>Lubricant amount</td> <td>: 7 g</td> <td>5 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	: 6207 C3	6206 C3	Sealing	: Inpro/Seal	Inpro/Seal	Lubrication interval	: 20000 h	20000 h	Lubricant amount	: 7 g	5 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	Date															
Performed by																			
Checked by			Page	Revision															
Date	14/09/2021		1 / 6																