



Customer Document title:

Motor Typical Performance Data

Flowserve Document title: **Motor Typical Performance Data**Flowserve Document No.: **1400944-002-5955-01**Document Revision No.: **A**Flowserve Order No.: **1400944**Flowserve Serial No.: **1400944CHP002A/D**Pump Type/Size: **MARK 3 STANDARD / 2K4X3-100P**Quantity: **4**Customer Name: **DESMET BALLESTRA NORTH AMERICA**

Customer Tag No: **DESMET TAG#: PW502.1/1, WORLD ENERGY TAG#: 19-P-754A, DESMET TAG#: PW502.1/2, WORLD ENERGY TAG #: 19-P-754B, DESMET TAG#: PW502.2/1, WORLD ENERGY TAG#: 19-P-854A, DESMET TAG#: PW502.2/2, WORLD ENERGY TAG#: 19-P-854B**

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**

B - PROCEED, CHANGE AS NOTED *FLUOR* AND RESUBMIT

Authorization to proceed does not relieve Contractor/Supplier of its responsibility or liability under the Contract and or Purchase Order.

By: **R. Parnell, PAR49875, 2/24/2022**

- 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 : 11431671
				Catalog # : 06036ST3QIE364TS-W22
Frame : 364/5TS Output : 60 HP (45 kW) Poles : 2 Frequency : 60 Hz Rated voltage : 460 V 3 phase Rated current : 67.0 A L. R. Amperes : 429 A LRC : 6.4x(Code G) No load current : 15.0 A Rated speed : 3550 rpm Slip : 1.39 % Rated torque : 88.8 ft.lb Locked rotor torque : 190 % Breakdown torque : 250 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 10.6 sq.ft.lb Design : B		Locked rotor time : 25s (cold) 14s (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 : 79.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 863 lb For starting - WEG standard is 2 cold starts / 1 hot start per hour.		
Output	50%	75%	100%	Foundation loads
Efficiency (%)	91.7	93.0	93.6	Max. traction : 447 lb
Power Factor	0.81	0.88	0.90	Max. compression : 1310 lb
		<u>Drive end</u>	<u>Non drive end</u>	
Bearing type	:	6314 C3	6314 C3	
Sealing	:	Inpro/Seal	Inpro/Seal	
Lubrication interval	:	4000 h	4000 h	
Lubricant amount	:	27 g	27 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.	
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Performed by				
Checked by			Page	Revision
Date	14/09/2021		1 / 6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

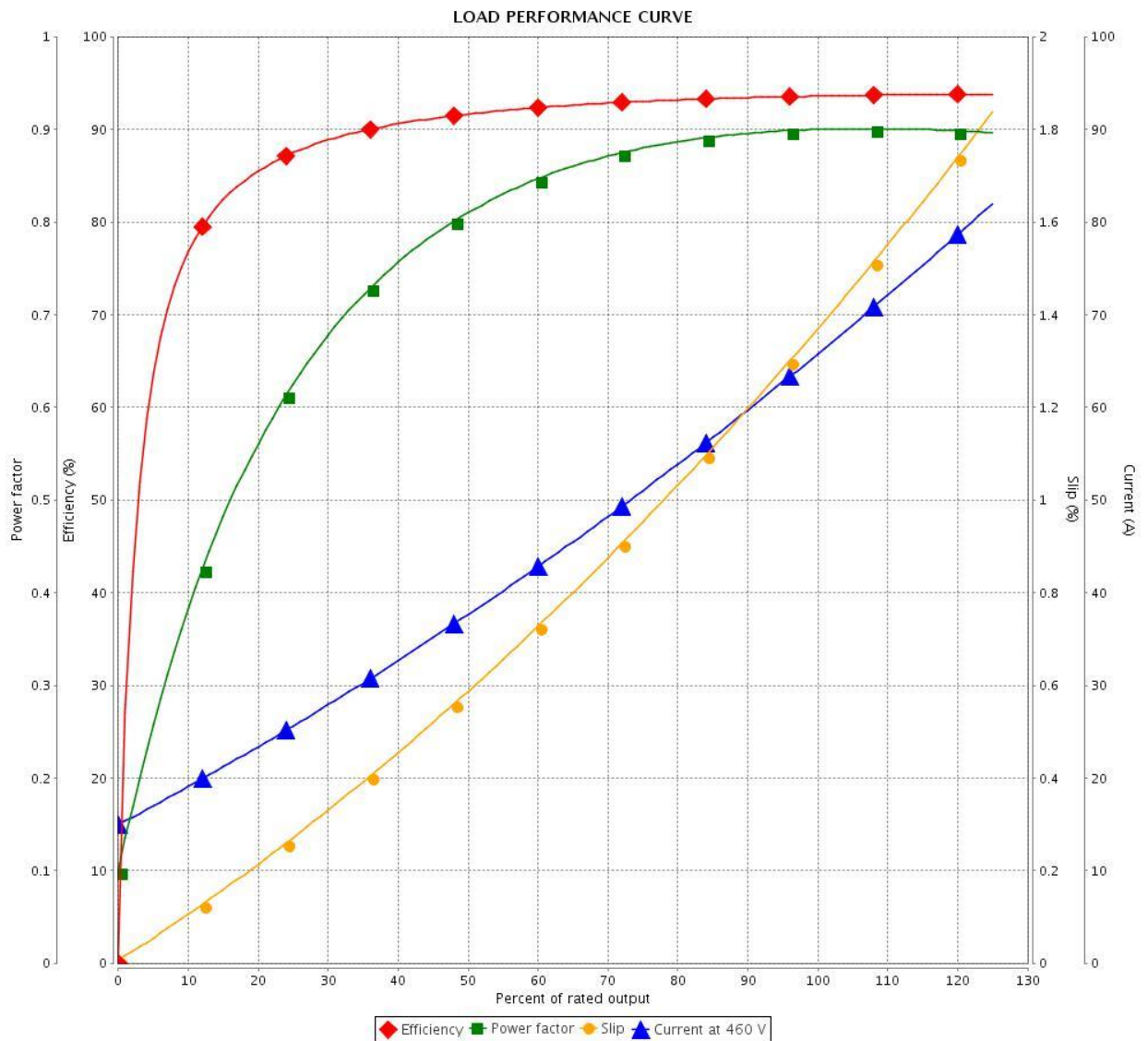


Customer :

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

Product code : 11431671

Catalog # : 06036ST3QIE364TS-W22



Performance : 460 V 60 Hz ~~2P~~

Rated current : 67.0 A
LRC : 6.4
Rated torque : 88.8 ft.lb
Locked rotor torque : 190 %
Breakdown torque : 250 %
Rated speed : 3550 rpm

Moment of inertia (J) : 10.6 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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Performed by		<div>Page 3 / 6</div> <div>Revision 1</div>		
Checked by				
Date	14/09/2021			