



Customer Document title:

Motor Typical Performance Data

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

Flowserve Document No.: **1400944-001-5955-01**

Document Revision No.: **A**

Flowserve Order No.: **1400944**

Flowserve Serial No.: **1400944CHP001A/D**

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

Quantity: **4**

Customer Name: **DESMET BALLESTRA NORTH AMERICA**

Customer Tag No: **DESMET TAG#PW503AC.1/1 - World Energy#: 19-P-750A, DESMET TAG#PW503AC.1/2 - World Energy#: 19-P-750B, DESMET TAG#: PW503AC.2/1 - World Energy#: 19-P-850A, DESMET TAG#: PW503AC.2/2, World Energy#: 19-P-850B**

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

Typical comment for ALL motors for this project

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 **3 phase**
Rated voltage : 460 V
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
Rotation¹ : Both (CW and CCW)
Noise level² : 79.0 dB(A)
Starting method : Direct On Line
Approx. weight³ : 863 lb

**For starting - WEG standard is
2 cold starts / 1 hot start per hour.**

Output	50%	75%	100%
Efficiency (%)	91.7	93.0	93.6
Power Factor	0.81	0.88	0.90

Foundation loads

Max. traction : 447 lb
Max. compression : 1310 lb

	Drive end	Non drive end
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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 1 / 6 Revision 2		
Checked by				
Date	14/09/2021			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

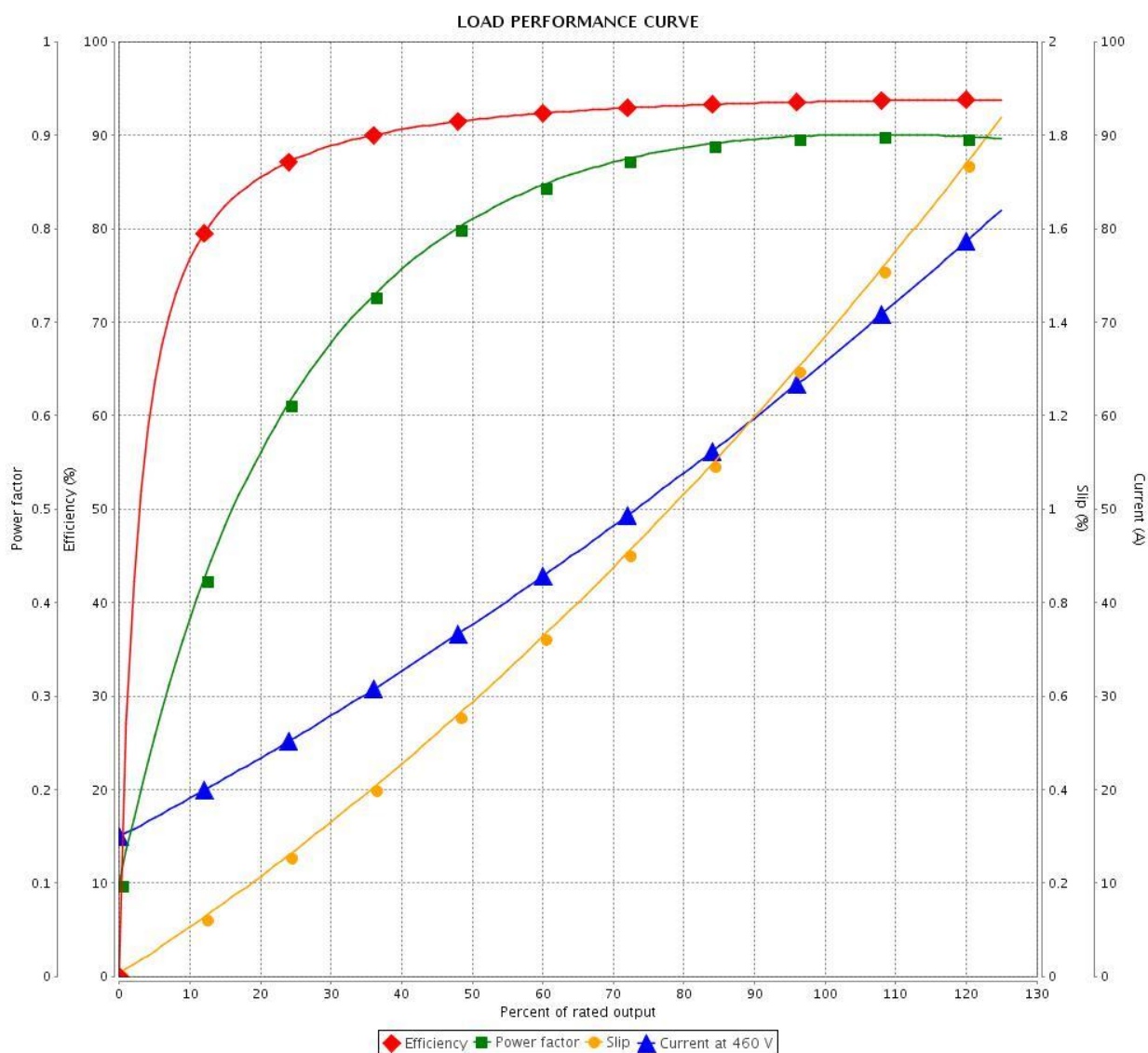


Customer : _____

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

Product code : 11431671

Catalog # : 06036ST3QIE364TS-W22



Performance : 460 V 60 Hz **SD**

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

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