



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 / 2K4X3-10OP**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:	
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- 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 RESUBMITAuthorization 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	Locked rotor time	: 25s (cold) 14s (hot)		
Output	: 60 HP (45 kW)	Temperature rise	: 80 K		
Poles	: 2	Duty cycle	: Cont.(S1)		
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C		
Rated voltage	: 460 V 3 phase	Altitude	: 1000 m.a.s.l.		
Rated current	: 67.0 A	Protection degree	: IP55		
L. R. Amperes	: 429 A	Cooling method	: IC411 - TEFC T3C		
LRC	: 6.4x(Code G)	Mounting	: F-1		
No load current	: 15.0 A	Rotation ¹	: Both (CW and CCW)		
Rated speed	: 3550 rpm	Noise level ²	: 79.0 dB(A)		
Slip	: 1.39 %	Starting method	: Direct On Line		
Rated torque	: 88.8 ft.lb	Approx. weight ³	: 863 lb		
Locked rotor torque	: 190 %	For starting - WEG standard is 2 cold starts / 1 hot start per hour.			
Breakdown torque	: 250 %				
Insulation class	: F				
Service factor	: 1.25				
Moment of inertia (J)	: 10.6 sq.ft.lb				
Design	: B				
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					
Bearing type : 6314 C3 Sealing : Inpro/Seal Lubrication interval : 4000 h Lubricant amount : 27 g Lubricant type : Mobil Polyrex EM		Drive end 6314 C3 Inpro/Seal 4000 h 27 g Non drive end 6314 C3 Inpro/Seal 4000 h 27 g			
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	Revision?
Checked by				1 / 6	
Date	14/09/2021				

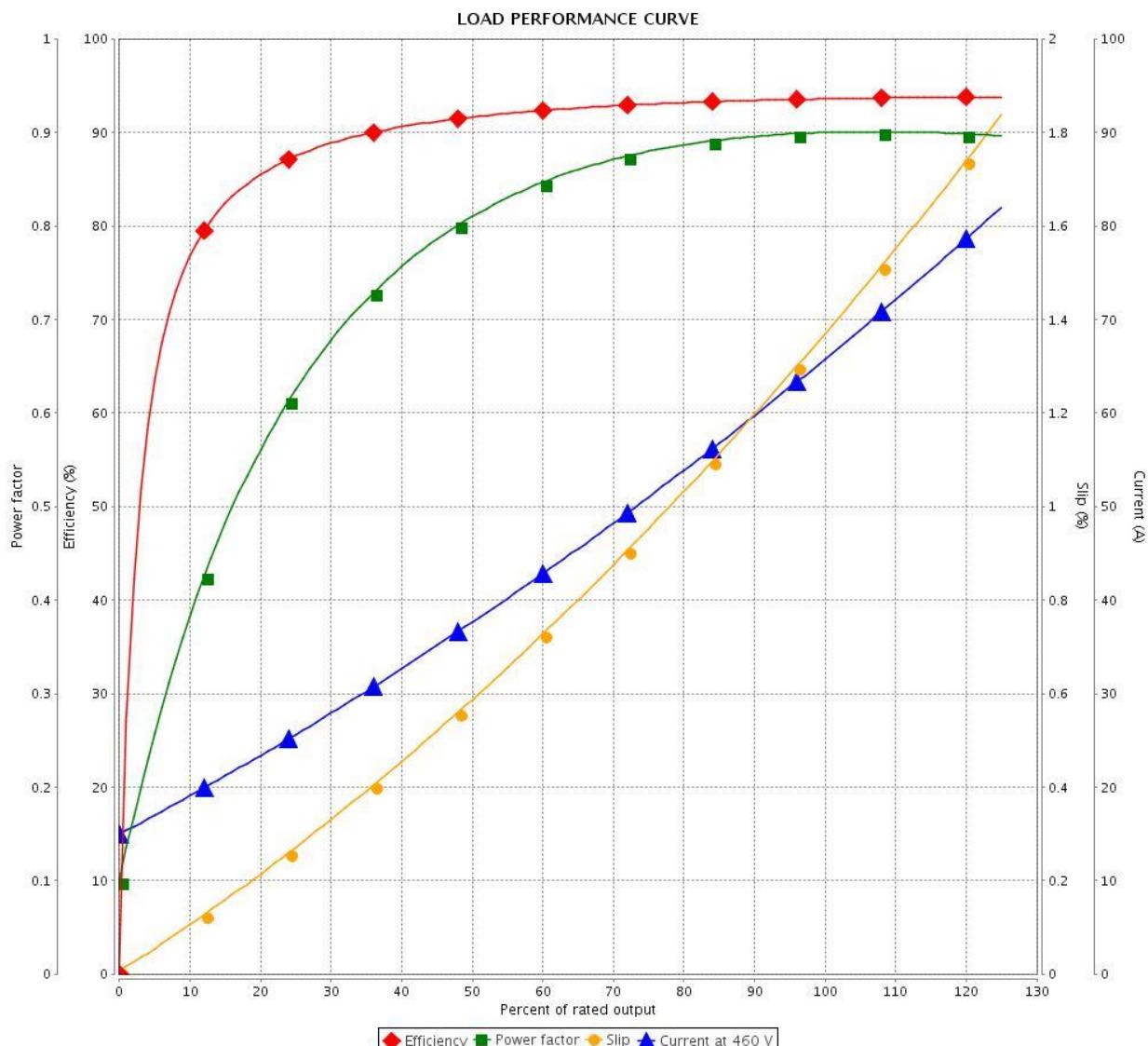
LOAD PERFORMANCE CURVE

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 ZP

Rated current	: 67.0 A	Moment of inertia (J)	: 10.6 sq.ft.lb
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 88.8 ft.lb	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 3550 rpm	Design	: B

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