



Customer Document title:

## Motor Typical Performance Data

Flowserve Document title: **Motor Typical Performance Data**Flowserve Document No.: **1400944-015-5955-01**Document Revision No.: **A**Flowserve Order No.: **1400944**Flowserve Serial No.: **1400944CHP015A/D**Pump Type/Size: **MARK 3 STANDARD / 2K6X4-10HRV**Quantity: **4**Customer Name: **DESMET BALLESTRA NORTH AMERICA**

Customer Tag No: **DESMET TAG#:P650/81C.1-1,World Energy TAG#: 19-P-777A,DESMET TAG#:P650/81C.1-2, World Energy TAG#: 19-P-777B, DESMET TAG#: P650/81C.2-1,World Energy TAG#:19-P-877A, DESMET TAG#:P650/81C.2-2,World Energy#: 19-P-877B**

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**

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- 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	<a href="#">Morris, Tamika</a>	<a href="#">15-Dec-21</a>

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :															
Product line	: W22 IEEE 841 NEMA Premium Efficiency Three-Phase	Product code :	11432088												
		Catalog # :	02018ST3QIE256T-W22												
Frame	: 254/6T	Locked rotor time	: 27s (cold) 15s (hot)												
Output	: 20 HP (15 kW)	Temperature rise	: 80 K												
Poles	: 4	Duty cycle	: Cont.(S1)												
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C												
Rated voltage	: 460 V <b>3 phase</b>	Altitude	: 1000 m.a.s.l.												
Rated current	: 24.1 A	Protection degree	: IP55												
L. R. Amperes	: 166 A	Cooling method	: IC411 - TEFC <b>T3C</b>												
LRC	: 6.9x(Code H)	Mounting	: F-1												
No load current	: 10.0 A	Rotation <sup>1</sup>	: Both (CW and CCW)												
Rated speed	: 1765 rpm	Noise level <sup>2</sup>	: 64.0 dB(A)												
Slip	: 1.94 %	Starting method	: Direct On Line												
Rated torque	: 58.7 ft.lb	Approx. weight <sup>3</sup>	: 364 lb												
Locked rotor torque	: 270 %	<b>For starting - WEG standard is 2 cold starts / 1 hot start per hour.</b>													
Breakdown torque	: 280 %														
Insulation class	: F														
Service factor	: 1.25														
Moment of inertia (J)	: 3.10 sq.ft.lb														
Design	: B														
Output	50%	75%	100%												
Efficiency (%)	91.7	92.4	93.0												
Power Factor	0.68	0.79	0.84												
		Foundation loads													
		Max. traction	: 746 lb												
		Max. compression	: 1110 lb												
		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding-bottom: 5px;">Drive end</td><td style="width: 50%; text-align: center; padding-bottom: 5px;">Non drive end</td></tr> <tr> <td>6309 C3</td><td>6209 C3</td></tr> <tr> <td>Inpro/Seal</td><td>Inpro/Seal</td></tr> <tr> <td>20000 h</td><td>20000 h</td></tr> <tr> <td>13 g</td><td>9 g</td></tr> <tr> <td colspan="2" style="text-align: center;">Mobil Polyrex EM</td></tr> </table>		Drive end	Non drive end	6309 C3	6209 C3	Inpro/Seal	Inpro/Seal	20000 h	20000 h	13 g	9 g	Mobil Polyrex EM	
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Notes															
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>		<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>													
Rev.	Changes Summary		Performed	Checked	Date										
Performed by				Page	Revision?										
Checked by				1 / 6											
Date	30/01/2020														

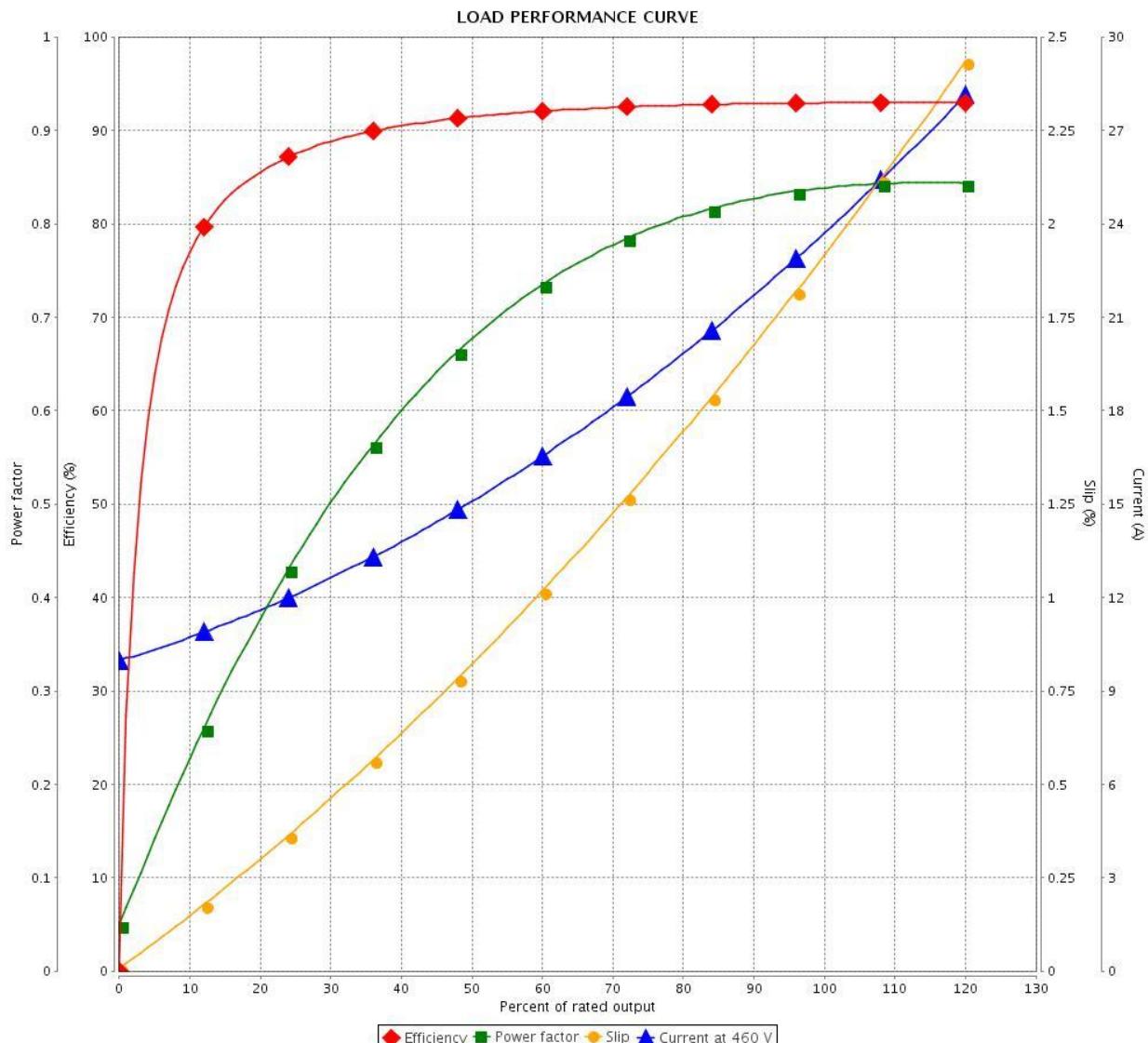
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11432088  
Catalog # : 02018ST3QIE256T-W22



Performance : 460 V 60 Hz ~~45~~

Rated current	: 24.1 A	Moment of inertia (J)	: 3.10 sq.ft.lb
LRC	: 6.9	Duty cycle	: Cont.(S1)
Rated torque	: 58.7 ft.lb	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: B

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Date	30/01/2020		Page 3 / 6	Revision?