



Customer Document title:

Motor Typical Performance Data

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

Flowserve Document No.: **1400944-012-5955-01**

Document Revision No.: **A**

Flowserve Order No.: **1400944**

Flowserve Serial No.: **1400944CHP012A/D**

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

Quantity: **4**

Customer Name: **DESMET BALLESTRA NORTH AMERICA**

Customer Tag No: **DESMET TAG#: P682B.1/1, World Energy TAG#: 19-P-765A, DESMET TAG#: P682B.1/2, World Energy TAG#: 19-P-765B, DESMET TAG#: P682B.2/1, World Energy TAG#: 19-P-865A, DESMET TAG#: P682B.2/2, World Energy TAG#: 19-P-865B**

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.**
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- 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 : 11431935
				Catalog # : 10018ST3QIE405T-W22
Frame : 404/5T Output : 100 HP (75 kW) Poles : 4 Frequency : 60 Hz Rated voltage : 460 V 3 phase Rated current : 116 A L. R. Amperes : 719 A LRC : 6.2x(Code G) No load current : 32.0 A Rated speed : 1775 rpm Slip : 1.39 % Rated torque : 40.9 kgfm Locked rotor torque : 240 % Breakdown torque : 220 % Insulation class : F Service factor : 1.25 Moment of inertia (J) : 1.26 kgm ² Design : B		Locked rotor time : 23s (cold) 13s (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 : 68.0 dB(A) Starting method : Direct On Line Approx. weight ³ : 556 kg For starting - WEG standard is 2 cold starts / 1 hot start per hour.		
Output	25%	50%	75%	100%
Efficiency (%)	94.5	95.0	95.0	95.4
Power Factor	0.54	0.77	0.84	0.85
		Foundation loads		
		Max. traction : 739 kgf		
		Max. compression : 1296 kgf		
		<u>Drive end</u>		<u>Non drive end</u>
Bearing type	:	6316 C3		6314 C3
Sealing	:	Inpro/Seal		Inpro/Seal
Lubrication interval	:	10000 h		12000 h
Lubricant amount	:	34 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
Performed by				
Checked by			Page	Revision
Date	14/09/2021		1 / 6	

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Three Phase Induction Motor - Squirrel Cage

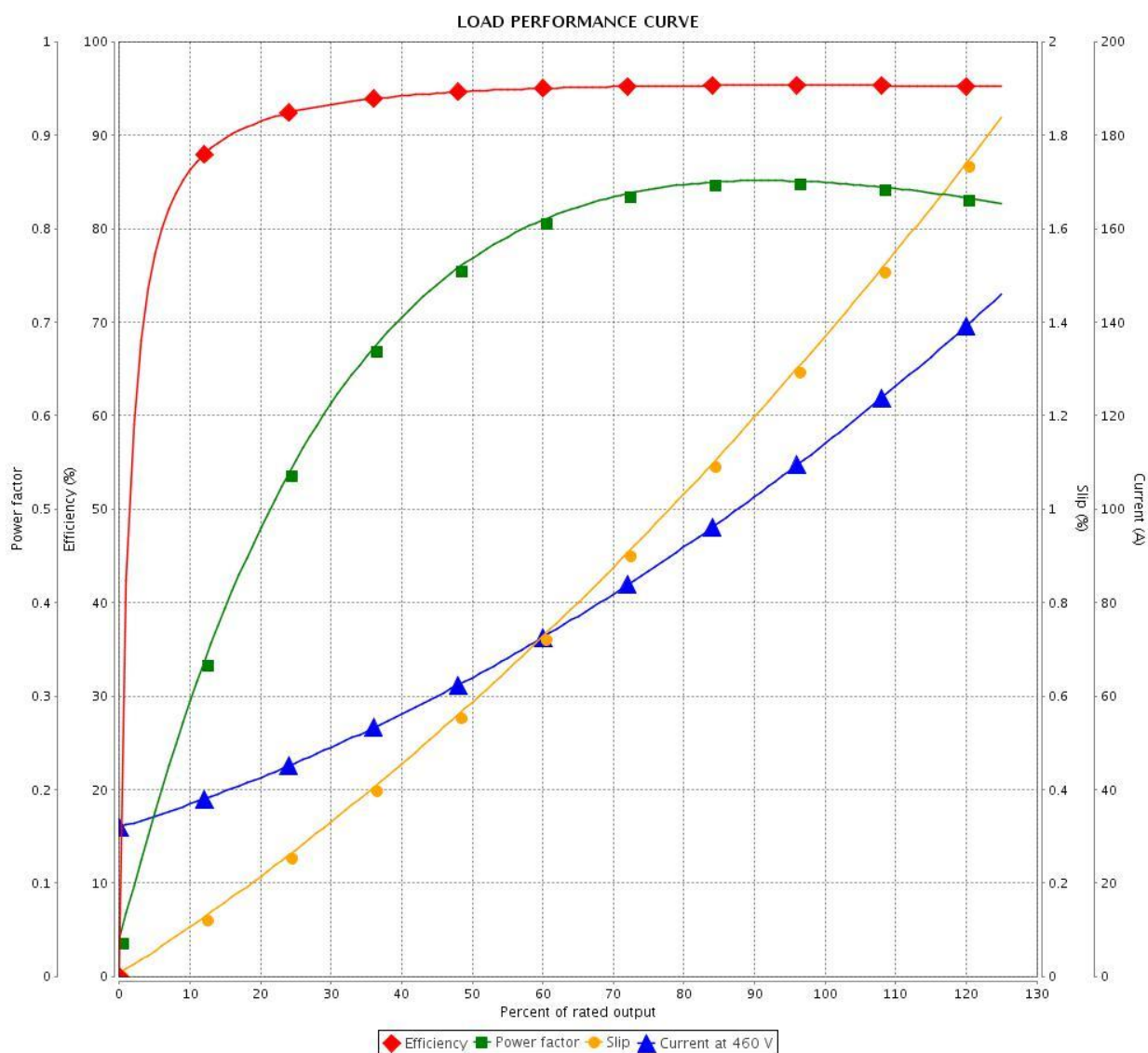


Customer :

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

Product code : 11431935

Catalog # : 10018ST3QIE405T-W22



Performance : 460 V 60 Hz ~~45~~

Rated current : 116 A
LRC : 6.2
Rated torque : 40.9 kgfm
Locked rotor torque : 240 %
Breakdown torque : 220 %
Rated speed : 1775 rpm

Moment of inertia (J) : 1.26 kgm²
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 Revision 2		
Checked by				
Date	14/09/2021			