

 		Low Voltage Electric Induction Motor				CNRL_HORIZON	
		NO.	BY	DATE	REVISION		
<b>Project:</b> Canadian Natural Resources - Horizon Froth Treatment Plant - Train2		0	JYL	11/27/2014	ISSUED FOR CONSTRUCTION	DATA SHEET NO. 26-GM-2201B-DS-01	
		B	DQ	3/13/2012	ISSUED FOR PURCHASE	REV. 0	
		A	DQ	3/1/2012	ISSUED FOR REVIEW	Sheet 1 OF 2 Date 11/27/2014	
<b>TAG NO:</b> 26-GM-2201B		<b>MANUFACTURER:</b> TECO-Westinghouse				BY: JYL, CHKD: JYL, ENG: BC, APPR: JYL	
<b>Asset No:</b>		<b>MODEL:</b> AEHH8B				P.O. 50589	
<b>Service Description:</b> NRU STRIPPER BOTTOMS PUMP MOTOR						REQ. 26-MR-ME-0009-02	
						EPC DOC # 100087-26-140-DAT-0087-01	
<b>GENERAL</b>		<b>PURPOSE:</b> Issued for Construction		<b>PREPARED BY:</b> J. LAM		<b>GROUP:</b> EPC	
		<b>NAME OF THE ORGANIZATION:</b> AMEC					
<b>SITE CONDITIONS</b>		<b>LOCATION:</b> Indoors		<b>SYSTEM VOLTAGE:</b> 600 V		<b>PHASE:</b> 3	
<b>ALTITUDE (ABOVE MEAN SEA LEVEL):</b> 300 m		<b>OUTDOOR AMBIENT TEMP.:</b>		<b>WIRE:</b> 3		<b>FREQ:</b> 60 Hz	
<b>MIN:</b> -45 °C		<b>INDOOR AMBIENT TEMP.:</b>		<b>REGULATION:</b> +/- 10%			
<b>MAX:</b> +38 °C				<b>SYSTEM FAULT LEVEL:</b> 37.2 KA			
<b>DESIGN:</b>				<b>SYSTEM GROUND:</b> High resistance			
<b>UNUSUAL CONDITIONS:</b>				<b>GROUND FAULT AMPS:</b> 5			
<b>GASES:</b> Yes		<b>DETAILS:</b> Trace Amount of H2S, SO2		<b>SPECIAL CONDITIONS (IF ANY):</b>			
<b>DUST:</b> Yes		<b>DETAILS:</b> Coke Dust					
<b>OTHER:</b> Yes		<b>DETAILS:</b> Trace Amount of Hydrocarbons					
<b>AREA CLASSIFICATION:</b> Class 1, Zone 2, Group IIA, T3							
<b>NAME PLATE</b>		<b>MAKE:</b> TECO		<b>MODEL:</b> AEHH8B		<b>SERIAL:</b> LX912B030002	
<b>RATING:</b> 55 kW		<b>HP:</b> 75.07		<b>PF:</b> 0.79			
<b>VOLTAGE:</b> 575 V		<b>PHASE:</b> 3		<b>FREQ:</b> 60 Hz			
<b>SYNCH. SPEED:</b> 900.0 rpm		<b>FLA:</b> 76.5 A		<b>DESIGN:</b> B			
<b>INSL. CLASS:</b> F		<b>EFFICIENCY:</b> 0.93		<b>KVA CODE:</b> G			
<b>MAX TEMP RISE:</b> Class B		<b>COOLING:</b> IC411		<b>FRAME SIZE:</b> 444T			
				<b>ENCLOSURE:</b> TEFC			
				<b>MOUNTING:</b> Horizontal			
				<b>MAX SURFACE TEMP RISE:</b>		<b>TEMP CODE:</b> T3	
				<b>BASE TRANSITION PLATE REQUIRED:</b>		<b>SIZE:</b> SEE PUMP GA	
				<b>WINDING COIL MATERIAL:</b> Copper		<b>WINDING TYPE:</b> RANDOM	
				<b>TOTAL NO. OF COILS:</b>			
				<b>ROTOR CONSTRUCTION:</b> Alu-Die-Cast			
				<b>STATOR SHIFT:</b>		<b>SHAFT END PLAY:</b>	
				<b>FAN MATERIAL:</b> See Notes		<b>DIRECTIONAL:</b> BI-DIRECTIONAL	
				<b>PAINT:</b> VENDOR STANDARD			
				<b>MOTOR SPACE HEATERS</b>			
				<b>No.:</b>		<b>VOLTS:</b>	
				<b>POWER:</b>			
				<b>OUTLINE DIMENSIONS:</b>			
		<b>L:</b> 44.4 in		<b>W:</b> 35.5 in		<b>H:</b> 27.9 in	
<b>BEARINGS &amp; LUB</b>		<b>BRG TYPE:</b>		<b>PART NUMBER:</b>		<b>DRIVE SYSTEM</b>	
		<b>DE:</b> A/F BALL BEARING		<b>6316C3</b>		<b>DRIVEN-EQUIPMENT WK2:</b>	
		<b>ODE:</b> A/F BALL BEARING		<b>6316C3</b>		<b>lb-ft @:</b>	
		<b>INSULATED ODE BEARING:</b>		<b>INSL MATERIAL:</b>		<b>SHAFT:</b> AISI 1045	
		<b>LUBRICATION TYPE:</b> Grease		<b>TEMP RATING:</b>		<b>SINGLE:</b> Yes	
		<b>LUBRICATION SPECIFICATION:</b> Petro Canada Precision Synthetic EMG or equivalent				<b>DOUBLE:</b>	
						<b>DIRECTLY CONNECTED:</b> No	
						<b>GEAR:</b> No	
						<b>ROTATION FROM NDE:</b> Other (see notes)	
						<b>COUPLING:</b>	
						<b>SUPPLIED BY:</b>	
						<b>TYPE:</b> V-BELT	
						<b>MOUNTED BY:</b> Pump Vendor	
						<b>COUPLING REFERENCE:</b> N/A	
<b>NOTES</b>							

TAG NO.		26-GM-2201B		Low Voltage Electric Induction Motor		DATA SHEET NO.		REV.	SHT	OF	
						26-GM-2201B-DS-01		0	2	2	
PERFORMANCE	MOTOR STARTING					TEST AS PER SPECIFICATION: Yes					
	LOAD:		PARTIAL:		OTHER:		TYPE TESTING:				
	RATED VOLTAGE START:		REDUCED VOLTAGE:		80%		PERFORMANCE TESTING: Factory				
	LOCKED ROTOR VALUES AT RATED VOLTAGE					SHOP INSPECTION:					
	CURRENT:		570%				STATOR INSPECTION:				
	POWER FACTOR:		0.93				RESIDUAL UNBALANCE TEST:				
	ACCELERATION TIME (WITH LOAD):						ROUTINE TEST PER API 541:				
	CURVES (@ RATED & REDUCED VOLTAGE):					POLARIZATION INDEX:					
	SPEED VS MOTOR TORQUE:		COMB. SPEED/TORQUE:				CERTIFIED DATA PRIOR TO SHIPMENT: Yes				
	SPEED VS LOAD TORQUE:										
	SPEED VS CURRENT:										
	SPEED VS POWER FACTOR:										
	RUNNING @ RATED VOLTAGE										
	FULL LOAD CURRENT:		76.5 A								
	FULL LOAD TORQUE:		445 lb-ft								
		50% LOAD		75% LOAD		100% LOAD					
EFFICIENCY (%):		0.91		0.924		0.93					
POWER FACTOR (%):		0.67		0.76		0.79					
DOCS.	SINGLE LINE DIAGRAMS:		26-SLD-EL-2007-04				APPROVAL MARKINGS: CSA Others				
	MOTOR SCHEMATICS:		26-SD-EL-2064				SPECIAL APPROVAL REQUIRED TECHNICAL DEVIATIONS (IF ANY)				
	MCC SCHEDULE:						APPLICABLE STANDARDS IEEE 841 NEMA MG-1 Others				
	LAYOUT DRAWINGS:		26-PL-EL-2048				CNRL STANDARDS 00-STD-EL-0012 00-STD-IM-000				
	VENDOR PRINTS:		Yes								
NOTES	<p>1. VFD DRIVEN MOTORS SHALL BE SUITABLE FOR INVERTER DUTY AS PER NEMA MG-1 PART 31.</p> <p>2. MOTOR COOLING FAN SHALL BE OF NON-SPARKING MATERIAL.</p> <p>3. DRIVE SYSTEM IS V-BELT CONNECTED.</p> <p>4. APPROVALS PER STANDATA LEG-ECR-2 AND, FOR VFD DRIVEN MOTORS, PER STANDATA CEC-28.</p> <p>5. ROTATION FROM NDE: BI-DIRECTIONAL</p>										

Uncontrolled When Printed