

**LOW VOLTAGE SQUIRREL CAGE INDUCTION MOTOR DATA SHEET**

SHT 1 OF 1

CLIENT CANADIAN NATURAL RESOURCES LTD.  
 PROJECT CONVERSION TO TRUCK UNLOADING STATION

TAG NO. P-909 A/B/C  
 SERVICE SALES OIL BOOSTER PUMPS

MANUFACTURER TECO WESTINGHOUSE MODEL \_\_\_\_\_ SERIAL NO. \_\_\_\_\_  
 NO. REQUIRED 3 DRIVEN EQUIPMENT \_\_\_\_\_

**MOTOR DESIGN DATA**

**DESIGN DATA**  
 SPECIFICATION CNRL SPEC 12.08  
 POWER 100 HP \_\_\_\_\_ kW  
480 V 3 PH 60 Hz  
 INVERTER DUTY  REVERSABLE  
 SINGLE SPEED  MULTI-SPEED  
 TYPE \_\_\_\_\_  
 MAX. LOCKED ROTOR CURRENT 725 % FLA @ 90 %PF  
 SPEED 1800 rpm \_\_\_\_\_ rpm \_\_\_\_\_ rpm  
 SF 1.15  
 CLASS F INSULATION w/CLASS B RISE  
 NEMA B TORQUE DESIGN  
 HIGH EFFICIENCY  STANDARD EFFICIENCY

**ENVIRONMENT**  
 HAZARDOUS LOCATION  NON-HAZARDOUS LOCATION  
 CLASS 1 ZONE/DIV 2 GROUF BC&D TEMP T3C  
 OUTDOOR  INDOOR-WET  INDOOR-DRY  
 CORROSIVE  DUST  
 ALTITUDE 803 m  
 TEMPERATURE -39 °C min 27 °C max  
 REL. HUMIDITY 0 % min 95 % max

**ENCLOSURE**  
 ODP  ODPG  TENV  TEFC  
 TEFV  TEPV

**STATOR WINDINGS**  
 COPPER  ALUMINUM

**STARTER/CONTROLLER**  
 FVNR  VFD  
 FVR  ELECTRONIC SOFT  
 WYE-DELTA  AUTO-TRANSFORMER  
 MULTI-SPEED  CAPACITOR  
 OTHER: \_\_\_\_\_

**INSTALLATION VENDOR TO SPECIFY**  
 HORIZONTAL  DIRECT COUPLED  
 VERTICAL - SHAFT DOWN  BELT COUPLED  
 VERTICAL - SHAFT UP  GEAR UNIT  
 FLUID COUPLING  
 BASE PLATE  SOLE PLATE  NONE  
 BASE / SOLE PLATE BY  MANUFACTURER  
 OTHERS

**ACCESSORIES AS PER CNRL SPEC 12.08**  
 RTDs (Pt100) \_\_\_\_\_ PER WINDING  
 RTDs (Pt100) \_\_\_\_\_ PER BEARING  
 THERMISTORS 1 PER BEARING  
 SPACE HTR 120 V \_\_\_\_\_ W  
 MAIN TERMINAL BOX LOCATION  F-1  F-2  STANDARD  
 SUPPLY CABLE TBD AWG/MCM TBD PER PHASE

**TESTING**  
 AS PER SPECIFICATION  
 OTHER \_\_\_\_\_

**DOCUMENTATION**  
 AS PER SPECIFICATION  
 OTHER \_\_\_\_\_

**MANUFACTURER'S DATA**

FRAME SIZE 405T  
 ENCLOSURE TYPE TEFC  
 FULL LOAD SPEED 1775  
 NUMBER OF POLES 4  
 SERVICE FACTOR 1.15  
 GUARANTEED MIN. EFFICIENCY 94.5 % @ FULL LOAD  
 INSULATION CLASS F  
 MOTOR TEMPERATURE RISE \_\_\_\_\_ °C  
 MAX. STATOR WINDING TEMP. \_\_\_\_\_ °C  
 WINDING  RANDOM  FORM  
 ROTOR CAGE MATERIAL \_\_\_\_\_  
 MAX. SOUND PRESSURE LEVEL 80 dBA @ 1m  
 MAX. # STARTS PER HOUR \_\_\_\_\_

LOAD	25%	50%	75%	FULL
EFFICIENCY %		<u>95</u>	<u>95.4</u>	<u>95.4</u>
CURRENT A				<u>112</u>
POWER FACTOR %		<u>80</u>	<u>85.5</u>	<u>87.5</u>

FULL-LOAD TORQUE \_\_\_\_\_ N-m  
 LOCKED ROTOR TORQUE 215 % FLT  
 BREAKDOWN TORQUE 215 % FLT  
 PULL-UP TORQUE 140 % FLT  
 ROTOR INERTIA (WK2) \_\_\_\_\_ kg-m2  
 LOCKED ROTOR CURRENT 725 % FLA @ \_\_\_\_\_ %PF  
 LR WITHSTAND TIME (COLD) 17 s  
 LR WITHSTAND TIME (HOT) 12 s  
 THERMAL TIME CONSTANT (STOPPED) \_\_\_\_\_ s  
 THERMAL TIME CONSTANT (RUNNING) \_\_\_\_\_ s  
 STARTING DUTY  AS PER SPEC  OTHER \_\_\_\_\_

MOTOR WEIGHT 59 kg  
 MOTOR DIMENSIONS: LENGTH \_\_\_\_\_ mm  
 WIDTH \_\_\_\_\_ mm  
 HEIGHT \_\_\_\_\_ mm

MAIN TERMINAL BOX LOCATION \_\_\_\_\_ facing NDE  
 MATERIAL \_\_\_\_\_  
 TEMP. TERMINAL BOX LOCATION \_\_\_\_\_ facing NDE  
 MATERIAL \_\_\_\_\_  
 HTR TERMINAL BOX LOCATION \_\_\_\_\_ facing NDE  
 MATERIAL \_\_\_\_\_

FAN MATERIAL \_\_\_\_\_  
 FAN ROTATION  UNIDIRECTIONAL  REVERSIBLE  
 BEARINGS DE TYPE 6317C3  INSULATED  
 BEARINGS NDE TYPE 6313ZC3  INSULATED  
 GREASE TYPE MOBILITH SHC 100  
 TOTAL SHAFT END FLOA \_\_\_\_\_ mm  
 LIMIT END FLOAT TO \_\_\_\_\_ mm

**REMARKS:**  
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 DATA SHEET NO. 2010135-DS-E-00-013-01

REV	DATE	ELEC	MECH	CHKD	APPR
A	DEC 15/11	DL	EA		
0	MAR/07/12	KD/	EA	SR	