	Scope of Work	Matimba Power Station
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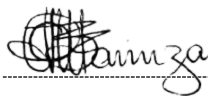
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1. Introduction

Eskom Matimba Power Station Management has decided to outsource the supply and delivery of LV motors scope of work to an experienced, well-established, and qualified Service Provider.

This document describes the detail of the applicable requirements, scope of work, specifications, terms & conditions as well as the criteria to qualify for the tender.

2. Supporting Clauses

2.1 Scope

This document sets out the detailed User Scope of Work requirements necessary for the supply and delivery of LV induction motors for Matimba Maintenance Services.

2.2 Purpose

The purpose of this document is to:

Define a User Scope of Work requirement based on which a supply and delivery contract will be established between the Employer and the Supplier.

Matimba Power Station is expected to perform at EAF>85, PCLF<8 and UCLF<5, and the supplied material must support this requirement.

It is therefore imperative that the successful and suitably qualified supplier aligns their company fully to these specified user supply requirements scope of work.

2.3 Applicability

This document applies to Matimba Power Station.

2.4 Effective date

The effective date of this document is as per the date and signature of the authorizer, as indicated on the cover page of this document.

2.5 Normative/Informative References

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

2.5.1 Normative

- [1] 240-57617975 New LV Induction Motor Procurement Standard
- [2] SANS 60034-12 Starting performance of single speed three-phase induction motor
- [3] SANS 1804-2 Induction Motors Part 2: Low-voltage three phase standard motors

2.5.2 Informative

- [4] 240-62072907 Eskom Delegation of Authority Policy.

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- [5] 240-165040111 Supplier Terms Policy
- [6] 32-1033 Procurement and Supply chain Management Policy
- [7] 240-141007195 Electronic Signature usage Policy
- [8] 240-156280553 Procedure for signing documentation electronically using the Eskom electronic signing system
- [9] 240-56361435 Transport of power station electric motor standard
- [10] 240-56360387 Storage of Power Station Electric Motor Standard
- [11] 240-77100923 New LV Technical Schedule AB Template
- [12] SANS 60034 Rotating Electrical Machines (Part 1, Part 2, Part 5, Part 6, Part 7, Part 8, Part 9, Part 11, Part 12, Part 14, Part 17, Part 26, Part 28, Part 30)
- [13] SANS 1804-1 Induction Motors Part 1: IEC Requirements
- [14] SANS 1804-4 Induction Motors Part 4: Single phase motors
- [15] ISO 9001 Quality Management Systems.
- [16] ISO 45001 Occupational Health and Safety Management System
- [17] ISO 14001 Environmental Management System
- [18] Preferential Procurement Policy Framework Act 5 of 2000.

2.6 Definitions

- **Ad hoc:** A solution designed for a specific problem or task, non-generalizable, and not intended to be able to be adapted to other purposes.
- **Contractor:** Partnership agreements and service provider contracted for supplying specific service/goods to Eskom Generation Matimba Power Station.
- **Controlled Disclosure:** Controlled disclosure to external parties (either enforced by law, or discretionary).
- **Employer:** Eskom or Eskom Generation, Matimba Power Station.
- **Parties:** The Employer and the Contractor.
- **Supply Manager:** The Employer's representative regarding the supply contract agreement.
- **Task Order:** The Service Manager's instruction to perform a task. SAP PM orders will also be used as task orders.

2.7 Abbreviations

Abbreviation	Explanation
CFT	Cross Functional Team
kW	Kilowatt

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Abbreviation	Explanation
LV	Low Voltage
NEC3	New Engineering Contract
NECSC	Supply Contract Document
OEM	Original Equipment Manufacturer
PCM	Process Control Manual.
PDF	Portable Document Format
PM	Preventative Maintenance
QCP	Quality Control Plan
SAP	Systems, Applications Products
SME	Subject Matter Expert
TET	Technical Evaluation Team
URS	User Requirement Specification.

2.8 Roles and Responsibilities

2.8.1 Supply Manager

1. Co-ordinating and Manage contract budget and expenses.
2. Ensures that the service provider operates within the budget.
3. Communicate technical interface between Eskom and the service provider.
4. Review, verify and approve receipt of services or deliverables from the goods supplier.
5. Manage and maintain records and correspondence between the employer and service provider.
6. Ensures that the service provider comply with the terms and conditions of the contract.
7. Keep the records of the contract for history and audit purposes.

2.8.2 Contractor

1. Supply of spares service to the Employer in accordance with Matimba Power Station procurement process as per spares URS.
2. Ensure that quality of spares delivered in Process for Monitoring in accordance with the Scope of Work as stipulated within Matimba Power Station spares URS.
3. The supplier shall ensure that all spares are accompanied by their related user specification as per their URS.

2.9 Process for Monitoring

On delivery of spares to Matimba Power station main stores, items will be subjected to quality control (QC) by an End User to ensure that description of delivered items complies with that of the order.

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2.10 Related/Supporting Documents

[1]. NEC 3 Supply Contract.

3. Technical Requirements

3.1 Overview and Purpose of Goods and Services

The technical requirements are for the supply and delivery of new Induction motors for Matimba Power Station. The LV motors must be designed, manufactured and tested according to the Eskom Standard 240-57617975 New LV Induction Motor Procurement Standard (Rev.4), SANS IEC 60034 and SANS 1804.

The required motors are a direct replacement for existing motors at Matimba Power Station and must be mechanically and electrically interchangeable. The technical, quality and documentation requirements are described according to the Eskom standard 240-57617975 New LV Induction Motor Procurement Standard (Rev.4).

3.2 Specification and Description of the Goods

The required electrical LV motors from 0.18kW to 185kW are listed below

Table 1: List of LV motors below 55kW

ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	MOTOR TYPE	EST. QTY 5YRS
1	178891	MOTOR, ELECTRIC: POWER: 6 KW; SPEED: 2634 RPM; FRAME: KFC160; CURRENT: 0.227-0.166 A; POTENTIAL: 220 VDC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 42 X LG 110 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 1; SERVICE FACTOR: S1; REFERENCE NO: 63861-002; CONNECTION 1	INDUCTION MOTOR 2P	50
2	597874	MOTOR, ELECTRIC: POWER: 0.18 KW; SPEED: 1370 RPM; FRAME: 63; CURRENT: 0.563 A; POTENTIAL: 380 VAC; MOUNTING: B5 FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 11 X LG 22 MM; CONNECTION LOCATION: TOP; POLES: 4; INSULATION CLASS: F; PHASE: 3; CASING MATERIAL: CAST IRON; TYPE: STAR/DELTA CONNECTION; 50 HZ	INDUCTION MOTOR 4P	50
3	43498	MOTOR, ELECTRIC: POWER: 0.55 KW; SPEED: 1425 RPM; FRAME: KDY80; CURRENT: 1.5 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: B7734-100E; KDY80; COMPLETE WITH PUMP , FOR OIL PURIFIER COALESCER 4.4, 50HZ	INDUCTION MOTOR 4P WITH PUMP	50

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ ORDER TEXT	PURCHASE	MOTOR TYPE	EST. QTY 5YRS
4	139561	MOTOR, ELECTRIC: POWER: 7.5 KW; SPEED: 2910 RPM; FRAME: 132S; CURRENT: 14.1 A; POTENTIAL: 380 VAC; MOUNTING: B5 FLANGE; ENCLOSURE RATING: IP66; SHAFT SIZE: DIA 38 X LG 80 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; CASING MATERIAL: CAST IRON; SERVICE FACTOR: S1; SHAFT: K6 TO HAVE A HOLE IN THE CENTRE OF THE SHAFT TAPPED M6; 2910 RPM; 14.1 A; CONNECTION DELTA, 50 HZ, IC0141; FLANGE TYPE: FF-265; MATERIAL: CAST IRON		INDUCTION MOTOR 2P	10
5	139563	MOTOR, ELECTRIC: POWER: 1.5 KW; SPEED: 2820 RPM; FRAME: D905D; CURRENT: 3.3 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 24.5 X LG 55 MM; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: B5233/5IH; DE/NDE 6205, CONNECTION STAR, 50 HZ; IC0141		INDUCTION MOTOR 2P	10
6	139564	MOTOR, ELECTRIC: POWER: 1.1 KW; SPEED: 2860 RPM; FRAME: KDY80; CURRENT: 2.6 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 18 X LG 45 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: B7382.11 ID; CONNECTION STAR; 50 HZ; IC0141		INDUCTION MOTOR 2P	10
7	139571	MOTOR, ELECTRIC: POWER: 1.5 KW; SPEED: 1410 RPM; FRAME: D90L; CURRENT: 4 A; POTENTIAL: 220/380 VAC; MOUNTING: B3 FOOT FLANGE; ENCLOSURE RATING: S1; SHAFT SIZE: DIA 24 X HT 100 MM; CONNECTION LOCATION: STAR; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; SUPPL P/N: 1LC5096-4AD21-Z; REFERENCE NO: D90L; 3.7/6.4 A, BEARINGS DE AND NDE 6205Z C3, PLANT MILL LOWER AND UPPER COLD AIR DAM PERS/EFP STANDBY OIL PUMP/REFRIGERATOR, CONNECTION STAR, 50 HZ		INDUCTION MOTOR 4P	10
8	139970	MOTOR, ELECTRIC: POWER: 45 KW; SPEED: 1475 RPM; FRAME: D225DM; CURRENT: 87 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 60 X LG 145 MM; CONNECTION LOCATION: LH SIDE NDE; POLES: 4; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; HIGH EFFICIENCY; BEARINGS DE NU313 AND NDE 6312; USED ON CONDENSATE TRANSFER PUMP C; CONNECTION DELTA; 50 HZ;		INDUCTION MOTOR 4P	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ ORDER TEXT	PURCHASE	MOTOR TYPE	EST. QTY 5YRS
		IC0141; COMPLETE SCHEDULE B FORM AND PROVIDE A DATA SHEET			
9	140131	MOTOR, ELECTRIC: POWER: 25 KW; SPEED: 1500 RPM; FRAME: NBG031/85; CURRENT: 126 A; POTENTIAL: 220 VDC; MOUNTING: FLANGE; ENCLOSURE RATING: IP54; SHAFT SIZE: DIA 57 X LG 145 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 1; SERVICE FACTOR: S1; SPECIFICATION: BS 4999; REFERENCE NO: 1HA3253-6ZZ24Z; EMERGENCY, PLANT TURBINE LUBE OIL SYSTEM, SHUNT WOUND, CONNECTION 1		DC MOTOR SHUNT WOUND	10
10	140172	MOTOR, ELECTRIC: POWER: 0.18 KW; SPEED: 2800 RPM; CURRENT: 1.6-0.9 A; POTENTIAL: 380 VAC; ENCLOSURE RATING: IP67; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S2; SPECIFICATION: VDE0530/72; SUPPL P/N: MD56-2-45; STAR/DELTA, COS 0.6, 10MIN, PLANT HLD EJECTOR B / EJ COND TO ACCCT, 50HZ		INDUCTION MOTOR 2P S2 FOR ACTUATOR	5
11	140173	MOTOR, ELECTRIC: POWER: 0.37 KW; SPEED: 2800 RPM; CURRENT: 2.4-1.3 A; POTENTIAL: 220/380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP67; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S2; SPECIFICATION: VDE0530/72; SUPPL P/N: MD56-2/60; ACTUATOR, PF 0.72, 10MIN, CONNECTION DELTA/STAR, 50HZ, SHAFT ENCLOSED		INDUCTION MOTOR 2P, S2 FOR ACTUATOR	5
12	140174	MOTOR, ELECTRIC: POWER: 0.25 KW; SPEED: 1400 RPM; CURRENT: 2.8-1.6 A; POTENTIAL: 220/380 VAC; ENCLOSURE RATING: IP67; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S2; SPECIFICATION: VDE0530/72; SUPPL P/N: MD71-4-50; STAR/DELTA, COS 0.6, 10 MIN, PLANT EFP DISCHARGE PYPASS, IP TURBINE HEATING CONTROL AND LP CONDESATE INJ VALVE		INDUCTION MOTOR 4P, S2 FOR ACTUATOR	5
13	140175	MOTOR, ELECTRIC: POWER: 1.1 KW; SPEED: 2800 RPM; CURRENT: 5.5-3.2 A; POTENTIAL: 220/380 VAC; ENCLOSURE RATING: IP67; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S2; SPECIFICATION: VDE0530/72; SUPPL P/N: MD71-2/80; REFERENCE NO: 2-4686/1515; ACTUATOR, STAR/DELTA, COS 0.66, 10MIN, 50HZ		INDUCTION MOTOR 2P, S2 FOR ACTUATOR	5
14	140178	MOTOR ELEC:2.2 KW;2800 RPM;6.6 A;IP67;FMOTOR, ELECTRIC: POWER: 2.2 KW; SPEED: 2800 RPM; CURRENT: 6.6 A;		INDUCTION MOTOR	5

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ ORDER TEXT	PURCHASE	MOTOR TYPE	EST. QTY 5YRS
		POTENTIAL: 220/380 VAC; ENCLOSURE RATING: IP67; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S2; SPECIFICATION: VDE0530/72; SUPPL P/N: MD96/2/75; REFERENCE NO: 6105 07 000 9667; STAR/DELTA, COS 0.64, 10MIN, ACTUATOR COMPLETE, PLANT HP HEATER BYPASS VALVE, 50HZ		2P, S2 FOR ACTUATOR	
15	140179	MOTOR, ELECTRIC: POWER: 1.1 KW; SPEED: 1400 RPM; POTENTIAL: 220/380 VAC; ENCLOSURE RATING: IP67; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S2; SPECIFICATION: VDE0630/72; SUPPL P/N: MD90-4-75; STAR/DELTA, COS 0.62, 10MIN, PLANT TURBINE CASE HEATING SYSTEM CONTROL VALVE, 50HZ		INDUCTION MOTOR 4P, S2 FOR ACTUATOR	5
16	140180	MOTOR, ELECTRIC: POWER: 7.5 KW; SPEED: 2800 RPM; CURRENT: 18-31 A; POTENTIAL: 220/380 VAC; ENCLOSURE RATING: IP67; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S2; SPECIFICATION: VDE0530/72; REFERENCE NO: 3-0985/3784; MD112-2-140; ACTUATOR, STAR/DELTA, COS 0.75, 10MIN, 50HZ		INDUCTION MOTOR 2P, S2 FOR ACTUATOR	5
17	140182	MOTOR, ELECTRIC: POWER: 4 KW; SPEED: 2800 RPM; CURRENT: 19-11 A; POTENTIAL: 220/380 VAC; ENCLOSURE RATING: IP67; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S2; SPECIFICATION: VDE0530/72; SUPPL P/N: MD90-2/130; DELTA/STAR, COS 0.66, 10MIN, PLANT FEEDWATER REG VALVE/ISOLATING VALVE A AND B, REG STATION, EFP DISCHARGE VALVE, 50HZ		INDUCTION MOTOR 2P, S2 FOR ACTUATOR	5
18	140236	MOTOR, ELECTRIC: POWER: 0.75 KW; SPEED: 1400 RPM; FRAME: DX132M; CURRENT: 3.6-2.1 A; POTENTIAL: 220/380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 19 X LG 40 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: FT080L24; UNILEC, CONNECTION DELTA/STAR, 50 HZ		INDUCTION MOTOR 4P	10
19	140238	MOTOR, ELECTRIC: POWER: 11.5 KW; SPEED: 1500 RPM; CURRENT: 60 A; POTENTIAL: 220 VDC; MOUNTING: FLANGE; FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 55 X LG 110 MM; INSULATION CLASS: F; PHASE: 1; SERVICE FACTOR: S1; REFERENCE NO: MCCC2FA200L; IEC, SERV DUTY 100 PCT, WEIGHT 270 KG, EXCIT SHUNT 220 V 7.6 A, R, ADD 14 HOMS, WITH		DC MOTOR	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ ORDER TEXT	PURCHASE	MOTOR TYPE	EST. QTY 5YRS
		OPEN PARALLEL KEYWAY DIMENSIONS WORK LENGTH 98 X 16 MM WIDE			
20	140239	MOTOR, ELECTRIC: POWER: 4 KW; SPEED: 1440 RPM; CURRENT: DELTA 16.5; STAR 9.5 A; POTENTIAL: 380 V; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 40 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: FT112M14; WITH PUMP; 50 HZ; PF 0.78		INDUCTION MOTOR 4P	10
21	140240	MOTOR, ELECTRIC: POWER: 0.75 KW; SPEED: 2820 RPM; FRAME: T80L12; CURRENT: 3.3-1.9 A; POTENTIAL: 220/380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 19 X LG 40 MM; CONNECTION LOCATION: LEFT HAND SIDE; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: T80L12; PF 0.84, CONNECTION DELTA/STAR, 50 HZ		INDUCTION MOTOR 2P	10
22	140245	MOTOR, ELECTRIC: POWER: 1.1 KW; SPEED: 1410 RPM; FRAME: DZ90S; CURRENT: 2.86 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 24 X LG 63 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: DZ90S; BEARINGS DE 6205ZZ AND NDE 6204ZZ, CONNECTION STAR, 50 HZ; IC0141		INDUCTION MOTOR 4P	10
23	140252	MOTOR, ELECTRIC: POWER: 6.5 KW; SPEED: 705 RPM; FRAME: 160L; CURRENT: 20-24 A; POTENTIAL: 220/380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 42 X LG 115 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S4/25; REFERENCE NO: 3LT3166-8AA10Z; BEARINGS DE AND NDE 6309 C3, CONNECTION STAR/STAR, 0.60 SERVICE FACTOR, 50 HZ, IC0141		INDUCTION MOTOR 8P, S4 FOR ACTUATOR	10
24	140255	MOTOR, ELECTRIC: POWER: 1.1/1.02 KW; SPEED: 260-2650 RPM; CURRENT: 3.2-1.35 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP67; SHAFT SIZE: DIA 24 X LG 54 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; CONNECTION STAR/STAR, 50 HZ		INDUCTION MOTOR DUAL SPEED	10
25	140256	MOTOR, ELECTRIC: POWER: 0.6/0.1 KW; SPEED: 390-2600 RPM; CURRENT: 1.9-0.79 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP54; SHAFT SIZE: DIA 18 X LG 43 MM; INSULATION CLASS: F;		INDUCTION MOTOR DUAL SPEED	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ ORDER TEXT	PURCHASE	MOTOR TYPE	EST. QTY 5YRS
		PHASE: 3; SERVICE FACTOR: S1; SUPPL P/N: D-B5-80; CONNECTION STAR/STAR, 50 HZ			
26	140257	MOTOR, ELECTRIC: POWER: 0.37 KW; SPEED: 1375 RPM; FRAME: 1LA3073-4AB22-Z; CURRENT: 1.94-1.12 A; POTENTIAL: 220/380 VAC; MOUNTING: B5 FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 15 X LG 27 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: KDY71; FRAME KDY70, BEARINGS DE 6204Z AND NDE 6202Z, CONNECTION STAR/DELTA, 50 HZ; 0.76 SERVICE FACTOR; IC0141		INDUCTION MOTOR 4P	15
27	140270	MOTOR, ELECTRIC: POWER: 18.5 KW; SPEED: 1460 RPM; FRAME: D180M; CURRENT: 38.5 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 50 X LG 110 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: 1LA41834YA71; BEARINGS DE 6310Z AND NDE 6210 C3, CONNECTION DELTA, 50 HZ; IC0141		INDUCTION MOTOR 4P	10
28	140271	MOTOR, ELECTRIC: POWER: 3 KW; SPEED: 950 RPM; FRAME: DX132S; CURRENT: 7.5 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 38 X LG 87 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: 0.141; REFERENCE NO: 1LA0-130-6AX40; BEARINGS DE AND NDE 6208Z, PLANT SEC, AIR HEATER AUX, CONNECTION DELTA, 50 HZ; IC0141		INDUCTION MOTOR 6P	10
29	140272	MOTOR, ELECTRIC: POWER: 4 KW; SPEED: 1430 RPM; FRAME: DX112MD; CURRENT: 9 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 28 X LG 63 MM; CONNECTION LOCATION: TOP; PHASE: 3; SERVICE FACTOR: S1; BEARINGS DE AND NDE 6206Z, CONNECTION DELTA, 50 HZ		INDUCTION MOTOR 4P	10
30	140281	MOTOR, ELECTRIC: POWER: 0.55 KW; SPEED: 2835 RPM; CURRENT: 1.3 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP54; SHAFT SIZE: DIA 15 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: M71-2; ANTON PILLER, CONNECTION STAR, 50 HZ		INDUCTION MOTOR 2P	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	MOTOR TYPE	EST. QTY 5YRS
31	140284	MOTOR, ELECTRIC: POWER: 300 W; SPEED: 2300 RPM; FRAME: WK1331802; CURRENT: 2.1 A; POTENTIAL: 220 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP20; INSULATION CLASS: F; PHASE: 1; SERVICE FACTOR: S1; SUPPL P/N: RHM50-50; 50HZ	INDUCTION MOTOR SINGLE PHASE	10
32	140295	MOTOR, GEARED : POWER: 1.1 KW; CURRENT: 2.8 A; OUTPUT SPEED: 14 RPM; POTENTIAL: 380 VAC; MOTOR SPEED: 1420 RPM; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP65; INSULATION CLASS: B; SERVICE FACTOR: S1; REFERENCE NO: G43-20; DK94G11CFG3-111/216ZWD; COMPLETE, CONNECTION STAR, 0.87 SERVICE FACTOR, 50HZ, DK94-216 FRAME	GEARED INDUCTION MOTOR 1420/14RPM	10
33	140321	MOTOR ELEC:0.18 KW;1370 RPM;63;0.563 AMOTOR, ELECTRIC: POWER: 0.18 KW; SPEED: 1370 RPM; FRAME: 63; CURRENT: 0.563 A; POTENTIAL: 380 VAC; MOUNTING: B5 FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 11 X LG 22 MM; CONNECTION LOCATION: TOP; CLASSIFICATION: ASH AND DUST; POLES: 4; INSULATION CLASS: F; PHASE: 3; CASING MATERIAL: STEEL; SERVICE FACTOR: S1; TEMPERATURE CLASS: 155 DEG F; DIRECTION: BI-DIRECTIONAL; TYPE: AC; SUPPL P/N: 53442; MILL CLEANOUT CONVEYOR; CONNECTION STAR/DELTA; 50 HZ	INDUCTION MOTOR 4P	50
34	140329	MOTOR ELEC:11 KW;1460 RPM;160M;23 AMOTOR, ELECTRIC: POWER: 11 KW; SPEED: 1460 RPM; FRAME: 160M; CURRENT: 23 A; POTENTIAL: 380 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 42 X LG 110 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; SUPPL P/N: 1LA31634-YA40Z; CONNECTION DELTA, 50 HZ	INDUCTION MOTOR 4P	10
35	140340	MOTOR, ELECTRIC: POWER: 1.5 KW; SPEED: 1410 RPM; FRAME: D90LD; CURRENT: 3.9 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 24 X LG 50 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; SUPPL P/N: 8009/1; CONNECTION STAR, 50 HZ	INDUCTION MOTOR 4P	10
36	140402	MOTOR, ELECTRIC: POWER: 0.18 KW; SPEED: 1360 RPM; FRAME: D63-4; CURRENT: 1.1-0.63 A; POTENTIAL: 220/380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP54; SHAFT SIZE: DIA 13 X LG 27 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1;	INDUCTION MOTOR 4P	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ ORDER TEXT	PURCHASE	MOTOR TYPE	EST. QTY 5YRS
		REFERENCE NO: KMERB6304; CONNECTION STAR, 50 HZ			
37	140403	MOTOR, ELECTRIC: POWER: 0.37 KW; SPEED: 1400 RPM; FRAME: MT71B14-4; CURRENT: 2.3-1.3 A; POTENTIAL: 220/380 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP54; SHAFT SIZE: DIA 18 X LG 35 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; SPECIFICATION: IEC 34; REFERENCE NO: MK110017S; CONNECTION STAR/DELTA, 50 HZ		INDUCTION MOTOR 4P	10
38	140404	MOTOR, ELECTRIC: POWER: 1.1 KW; SPEED: 1410 RPM; FRAME: DZ90S; CURRENT: 2.07 A; POTENTIAL: 525 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP44; SHAFT SIZE: DIA 67 X LG 24 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SUPPL P/N: 1LA0-090-4AW90; BEARINGS DE 6205ZZ, NDE 6204ZZ, CONNECTION STAR, 50 HZ; IC0141		INDUCTION MOTOR 4P	10
39	140451	MOTOR, GEARED: POWER: 0.18 KW; CURRENT: 0.87 A; OUTPUT SPEED: 12 RPM; POTENTIAL: 380 VAC; MOTOR SPEED: 1350 RPM; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; PHASE: 3; INSULATION CLASS: F; SHAFT: DIA 18 X LG 55 MM; SUPPL P/N: 15015-87; R63; 712B FRAME, WITH GEARBOX, BEARINGS DE - 6303ZZ, NDE - 6200ZZ, CONNECTION STAR, 50 HZ, IC0141		INDUCTION MOTOR 4P	10
40	140458	MOTOR, ELECTRIC: POWER: 0.25 KW; SPEED: 1445 RPM; FRAME: KDY71D; CURRENT: 0.85 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP44; SHAFT SIZE: DIA 38 X LG 14 MM; INSULATION CLASS: F; PHASE: 3; TYPE: INDUCTION; TEMP RISE 80 K, BEARINGS DE 6202ZZ AND NDE 6202ZZ, CONNECTION STAR, 50 HZ, IC0141		INDUCTION MOTOR 4P	10
41	140459	MOTOR ELEC:0.34 HP;1410-1445 RPM;71MOTOR, ELECTRIC: POWER: 0.34 HP; SPEED: 1410-1445 RPM; FRAME: 71; CURRENT: 0.85 A; POTENTIAL: 380 VAC; MOUNTING: B5 FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 14 X LG 30 MM; CONNECTION LOCATION: STAR; POLES: 4; INSULATION CLASS: B; PHASE: 3; CASING MATERIAL: CAST IRON; SERVICE FACTOR: S1; REFERENCE NO: TPW0203050; 0.2 KW, CONNECTION Y, 0.8 AMP, FIN 1,1 RPM, BAUF B 3, CONNECTION STAR, 50 HZ		INDUCTION MOTOR 4P	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ ORDER TEXT	PURCHASE	MOTOR TYPE	EST. QTY 5YRS
42	140461	MOTOR, ELECTRIC: POWER: 7.5 KW; SPEED: 1440 RPM; CURRENT: 15.6 A; POTENTIAL: 380 VAC; MOUNTING: V1 FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 38 X LG 90 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; CONNECTION DELTA, 50 HZ		INDUCTION MOTOR 4P	10
43	140462	MOTOR, ELECTRIC: POWER: 18 KW; SPEED: 1455 RPM; POTENTIAL: 380 VAC; SUPPL P/N: FF31/35; REFERENCE NO: 547700-1988; FOR USE ON ASH HANDLING PLANT INCLUDING LIFTING DEVICE AND IMMERSION DAMPERS, 50HZ		INDUCTION MOTOR 4P	10
44	140463	MOTOR, ELECTRIC: POWER: 7.5 KW; SPEED: 960 RPM; FRAME: D160M; CURRENT: 17.8 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 42 X LG 123 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: 1LLA3163-6YA40; BEARINGS DE 6309ZC3 AND NDE 6309C3, USE FOR APROM DRIVE FEEDER, CONNECTION DELTA, 0.75 SERVICE FACTOR, 50 HZ, IC0141		INDUCTION MOTOR 6P	10
45	140478	MOTOR, ELECTRIC: POWER: 18.5 KW; SPEED: 2900 RPM; FRAME: DX160L; CURRENT: 35.7 A; POTENTIAL: 380 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 42 X LG 110 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: DX160L; 48940/001LI; CA10A291-600EM/SOV750; FOR HP COMPRESSOR, CONNECTION DELTA, 50Hz		INDUCTION MOTOR 2P	10
46	140505	MOTOR, ELECTRIC: POWER: 30 KW; SPEED: 1460 RPM; FRAME: D200L; CURRENT: 60 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 55 X LG 116 MM; CONNECTION LOCATION: DELTA; INSULATION CLASS: F; PHASE: 3; FROM FAN SIDE BOX MUST BE ON THE LEFT-HAND SIDE; BEARINGS DE 6312 AND NDE 6312, PLANT DEMIN WATER SUPPLY AND PORTABLE WATER, CONNECTION DELTA, 083 SERVICE FACTOR, 50 HZ, IC0141		INDUCTION MOTOR 4P	10
47	140506	MOTOR, ELECTRIC: POWER: 3 KW; SPEED: 1430 RPM; FRAME: DX100LD; CURRENT: 6.9 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 28 X LG 64 MM; INSULATION CLASS: F; PHASE: 3; BEARINGS DE AND NDE 6206Z; CONNECTION DELTA; 50 HZ		INDUCTION MOTOR 4P	10

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48	140517	MOTOR, ELECTRIC: POWER: 10/15 KW; SPEED: 976-1465 RPM; FRAME: DX180L; CURRENT: 30.4-22.3 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 47 X LG 112 MM; CONNECTION LOCATION: STAR/DELTA; INSULATION CLASS: F; PHASE: 3; BEARINGS - DE AND NDE 6310Z, CONNECTION: STAR/STAR/DELTA, 50 HZ, 0.141 SERVICE FACTOR, IC0141	INDUCTION MOTOR 4P/6P 2x SPEED	10
49	140518	MOTOR, ELECTRIC: POWER: 22/14.7 KW; SPEED: 1479/992 RPM; FRAME: D225S; CURRENT: 40-38 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 60 X LG 140 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; CONNECTION STAR/STAR/DELTA, 50 HZ	INDUCTION MOTOR 4P/6P 2x SPEED	10
50	140525	MOTOR, ELECTRIC: POWER: 11 KW; SPEED: 2899 RPM; FRAME: DX160M; CURRENT: 22.9 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 42 X LG 110 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: D5520/11JI; BEARINGS DE 6309Z NDE 6309Z, PLANT FLAME SCANNER AND BURNER COOLING FANS A AND B, CONNECTION DELTA, 50 HZ, IC0141	INDUCTION MOTOR 2P	10
51	140542	MOTOR, ELECTRIC: POWER: 0.55 KW; SPEED: 1500 RPM; CURRENT: 6.6-3.8 A; POTENTIAL: 220/380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP67; INSULATION CLASS: F; PHASE: 3; SUPPL P/N: 80L1; 2.8/1.6AMP, IC 0141, CONNECTION STAR, COS 0.75, 50HZ	INDUCTION MOTOR 4P Sx FOR ACTUATOR	5
52	140543	MOTOR, ELECTRIC: POWER: 0.75 KW; SPEED: 1500 RPM; CURRENT: 3.6-2.1 A; POTENTIAL: 220/380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP67; CONNECTION LOCATION: STAR; INSULATION CLASS: F; PHASE: 3; SUPPL P/N: 80L2; CONNECTION STAR, 50HZ, IC0141	INDUCTION MOTOR 4P Sx FOR ACTUATOR	5
53	140560	MOTOR, ELECTRIC: POWER: 0.18 KW; SPEED: 1370 RPM; FRAME: FR0.18/4.7; CURRENT: 1.2-0.7 A; POTENTIAL: 220/380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP54; SHAFT SIZE: DIA 11 MM; INSULATION CLASS: B; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: 54411/C01; STARTING DOL, CONNECTION STAR, 50 HZ	INDUCTION MOTOR 4P	10

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54	140609	MOTOR, ELECTRIC: POWER: 0.12 KW; SPEED: 2800 RPM; FRAME: LS56/T; CURRENT: 0.5 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: 1; ELECTRICAL RATING 50HZ, STAR CONNECTION, FOR AMMONIA DOSING PUMP	INDUCTION MOTOR 2P	10
55	140610	MOTOR, ELECTRIC: POWER: 0.06 KW; SPEED: 1400 RPM; CURRENT: 0.3 A; POTENTIAL: 380 VAC; INSULATION CLASS: F; ANION CONDENSATE OUTLET VALVE, AUMA, CONNECTION STAR, 50HZ	INDUCTION MOTOR 4P Sx FOR ACTUATOR	5
56	140646	MOTOR, ELECTRIC: POWER: 2.2 KW; SPEED: 1400 RPM; FRAME: 100L-4; CURRENT: 5.3 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 30 X LG 65 MM; CONNECTION LOCATION: STAR; INSULATION CLASS: B80; PHASE: 3; REFERENCE NO: G059; MTG B141, INSOLATION CLASS B800, BEARINGS DE - 6205ZZ, NDE - 6205ZZ, CONNECTION STAR, FEMET, 50 HZ, IC0141	INDUCTION MOTOR 4P	10
57	140647	MOTOR, ELECTRIC: POWER: 30 KW; SPEED: 2960 RPM; FRAME: D200C; CURRENT: 61 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 55 X LG 115 MM; CONNECTION LOCATION: DELTA; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; BEARINGS DE - 6312 AND NDE - 6312, CONNECTION DELTA, 50 HZ; 0.89 SERVICE FACTOR	INDUCTION MOTOR 2P	10
58	140665	MOTOR, ELECTRIC: POWER: 2.2 KW; SPEED: 1415 RPM; FRAME: IEC 100C; CURRENT: 9-3.2 A; POTENTIAL: 220/380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 28 X LG 59 MM; INSULATION CLASS: F; PHASE: 3; TEMPERATURE CLASS: 40 DEG C; SPECIFICATION: VDE0530; SUPPL P/N: E.6F654162 01 001; REFERENCE NO: 1LCS106-4AD21Z; ROT KL16, KT, WITH PARALLEL KEYWAY, 7.8 MM WD, CONNECTION DELTA/STAR, 50 HZ; 0.75 SERVICE FACTOR	INDUCTION MOTOR 4P	10
59	140676	MOTOR, ELECTRIC: POWER: 13 KW; SPEED: 227-1365 RPM; FRAME: 200-250; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: LNMA; POLES: 4-24; INSULATION CLASS: F; PHASE: 3; TYPE: SQUIRREL CAGE; MODEL NO: LNMA 200 MD 21; INTERNALLY	INDUCTION MOTOR	5

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	MOTOR TYPE	EST. QTY 5YRS
		COOLED, 50 HZ, TORQUE 99NM, STARTS PER HOUR 180 S/H 40 PCT, CDF 240 - 320, THERMISTOR SENSOR CONTROL , SPEED NO LOAD 1500/250 RPM, 91 PCT OF NO LOAD		
60	140695	MOTOR, ELECTRIC: POWER: 15 KW; SPEED: 1445 RPM; FRAME: DX160L; CURRENT: 29.8 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 42 X LG 110 MM; CONNECTION LOCATION: LH; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; SUPPL P/N: 197930/2; CONNECTION DELTA, 50 HZ	INDUCTION MOTOR 4P	20
61	140696	MOTOR, ELECTRIC: POWER: 7.5 KW; SPEED: 960 RPM; FRAME: 160M; CURRENT: 17.8 A; POTENTIAL: 380 VAC; MOUNTING: B5 FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 42 X LG 123 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; TYPE: INDUCTION; REFERENCE NO: 1LA3163-64A41-160M; BEARINGS DE 6309ZZ AND NDE 6309ZZ, PLANT MILL HP NDE/DE AND LP OIL PUMP, CONNECTION DELTA, 0.75 SERVICE FACTOR, 50 HZ	INDUCTION MOTOR 6P	10
62	140697	MOTOR, ELECTRIC: POWER: 1.5 KW; SPEED: 935 RPM; FRAME: DZ100LD; CURRENT: 3.7 A; POTENTIAL: 380 VAC; MOUNTING: B5 FLANGE/FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 27 X LG 62 X HT 100 MM; INSULATION CLASS: F; PHASE: 3; TYPE: INDUCTION; BEARINGS DE AND NDE - 6206Z, CONNECTION STAR, 50 HZ, IC0141	INDUCTION MOTOR 6P	10
63	140698	MOTOR, ELECTRIC: POWER: 5.5 KW; SPEED: 940 RPM; FRAME: DX132M; CURRENT: 13.4 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP67; SHAFT SIZE: DIA 38 X HT 132 MM; CONNECTION LOCATION: BASE MOUNTING; INSULATION CLASS: F; PHASE: 3; TYPE: INDUCTION; REFERENCE NO: DX132M; PLANT MILL, GEARBOX OIL PUMP, CONNECTION DELTA, 50 HZ	INDUCTION MOTOR 6P	10
64	140699	MOTOR, ELECTRIC: POWER: 2.2 KW; SPEED: 1430 RPM; FRAME: DX100LD; CURRENT: 9.2-5.3 A; POTENTIAL: 220/380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 28 X LG 64 MM; INSULATION CLASS: F; PHASE: 3; TYPE: INDUCTION; BEARINGS DE AND NDE 6206Z; SHAFT HEIGHT 175 MM; CONNECTION STAR/DELTA; 0.8 SERVICE FACTOR; 50 HZ	INDUCTION MOTOR 4P	10
65	140700	MOTOR, ELECTRIC: POWER: 0.75 KW; SPEED: 1420 RPM; FRAME: KDY80D;	INDUCTION MOTOR	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ ORDER TEXT	PURCHASE	MOTOR TYPE	EST. QTY 5YRS
		CURRENT: 2.1 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; B5 FLANGE; ENCLOSURE RATING: IP44; SHAFT SIZE: DIA 18 X LG 40 MM; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: KDY80D; BEARINGS DE AND NDE 6204ZZ, FOR USE ON ID AND FD FAN JACKING OIL PUMP, CONNECTION STAR, 50 HZ		4P	
66	140701	MOTOR, ELECTRIC: POWER: 0.55 KW; SPEED: 1425 RPM; FRAME: KDY80; CURRENT: 1.5 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 21 X LG 43 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; TYPE: INDUCTION; REFERENCE NO: KDY80; IC 0141, TORQUE 3.7 NM, EFFICIENCY 74 PCT, POWER FACTOR 0.73, BEARINGS DE 6204ZZ NDE 6202Z, END SHIELDS CAST IRON, SHAFT DIMENSIONS LENGTH FROM END SHIELD = 40 MM, SHAFT DIAMETER = 19 (+0.009) (- 0.004)MM, PARALLEL KEY WAY LENGTH = 25 MM, WIDTH = 6(+0)(-0.03)MM, DISTANCE (MEASURED FROM BOTTOM OF SHAFT TO OBTAIN KEY WAY DEPTH = 15.5(+0)(-0.2)MM, BASE TO SHAFT CENTRE = 80 MM, BASE HOLE CENTRES (LENGTH) = 100 MM, BASE HOLE CENTRES (WIDTH) = 125 MM, DISTANCE FROM FRONT BASE HOLES TO SHAFT END = 100 MM, CONNECTION STAR, 50 HZ		INDUCTION MOTOR 4P	10
67	140715	MOTOR, ELECTRIC: POWER: 1.5 KW; SPEED: 1405 RPM; FRAME: D90LD; CURRENT: 6.4-3.7 A; POTENTIAL: 220/380 VAC; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 24 X LG 53 MM; INSULATION CLASS: F; PHASE: 3; SPECIFICATION: IEC 90L; VDE 0530; REFERENCE NO: 1LC3098- 4AD21-Z; WITH KEYWAY, CONNECTION DELTA/STAR, 0.82 SERVICE FACTOR, 50 HZ; SHAFT HEIGHT 100 MM		INDUCTION MOTOR 4P	5
68	140752	MOTOR, ELECTRIC: POWER: 45 KW; SPEED: 2950 RPM; FRAME: D225M; CURRENT: 90 A; POTENTIAL: 380 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 55 X LG 110 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; SUPPL P/N: JMC2 - 02/01/97; BEARINGS DE NU313 AND NDE 6312, SHAFT DIA 55 MM AND SHAFT HEIGHT 225 MM, NOTE, MOUNTINGS HAS 1 HOLE AT NDE SIDE AND 2 HOLES AT DE SIDE,		INDUCTION MOTOR 2P	5

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	MOTOR TYPE	EST. QTY 5YRS
		DISTANCE BETWEEN DE AND NDE HOLES +- 283 MM, PLANT USED ON AUX COOLING PUMPS, CONNECTION DELTA, 50 HZ		
69	140784	MOTOR, ELECTRIC: POWER: 0.37 KW; SPEED: 915 RPM; FRAME: 80K6; CURRENT: 1.22-2.12 A; POTENTIAL: 200/400 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 19 X LG 40 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: KPER80K6; COOLING IC0141, WEIGHT 11 KG, CONNECTION DELTA/STAR, 50 HZ	INDUCTION MOTOR 6P	10
70	140865	MOTOR, ELECTRIC: POWER: 3 KW; SPEED: 1440 RPM; FRAME: DZ100L; CURRENT: 6.6 A; POTENTIAL: 380 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP44; SHAFT SIZE: DIA 28 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: 56420/037LI; DZ100L; BASE MOUNTED 4 X 12 MM DIA, MOUNTING CENTRES 140 MM X 160 MM, BASE TO SHAFT CENTRE 100 MM, CONNECTION DELTA, 50 HZ	INDUCTION MOTOR 4P	10
71	140893	MOTOR, CHART DRIVE: POTENTIAL: 220 VAC; REFERENCE NO: 1AK23102N; W79047A2049X; Z6512, 1AK2300-2NC35-AL, Z6511, RATIO 1-6000, MOTOR AND GEABOX , SHAFT 5MM DIA X 15MM LG, MTG FLANGE, MOUNTING HOLES 4MM X 2MM, PITCH 40MM X 4MM, 50HZ	MOTOR AND GEARBOX SINGLE PHASE	10
72	140928	MOTOR, ELECTRIC: POWER: 3 KW; SPEED: 720-1420 RPM; FRAME: D100LBD/D168613; CURRENT: 11.7-6.7-10.8-6.1 A; POTENTIAL: 220-460 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 28 X LG 60 MM; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: 3A19883; 4RFWP; FOR BELT DRIVE VOL/ COAL FEED, CONNECTION STAR/DELTA, 50/60 HZ	INDUCTION MOTOR 4P/8P 2X SPEED	10
73	141481	MOTOR, ELECTRIC: POWER: 5.5 KW; SPEED: 1430 RPM; FRAME: DZ132S; CURRENT: 12 A; POTENTIAL: 380 VAC; MOUNTING: B30; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 38 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F80; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: 9409/47; CONNECTION DELTA	INDUCTION MOTOR 4P	10
74	141548	MOTOR, ELECTRIC: POWER: 37 KW; SPEED: 1475 RPM; FRAME: D225SD; CURRENT: 73 A; POTENTIAL: 380 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 60 X LG 140 MM; CONNECTION LOCATION:	INDUCTION MOTOR 4P	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	MOTOR TYPE	EST. QTY 5YRS
		TOP; CLASSIFICATION: PREMIUM HIGH EFFICIENCY; INSULATION CLASS: F; PHASE: 3; CASING MATERIAL: CAST IRON; TYPE: SQUIRREL CAGE; REFERENCE NO: D225S; CONNECTION DELTA, 041 SERVICE FACTOR, 50 HZ; SEE INSPECTION TEXT BEFORE RELEASE OF RFQ		
75	141620	MOTOR, ELECTRIC: POWER: 5.5 KW; SPEED: 1430 RPM; FRAME: DZ132S; CURRENT: 11.7 A; POTENTIAL: 380 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 38 X LG 87 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: KDZ822-120; DZ132S; 1450 RPM; FOR USE ON WATER TREATMENT PLANT; CONNECTION DELTA; 50 HZ	INDUCTION MOTOR 4P	10
76	141838	MOTOR, ELECTRIC: POWER: 0.18 KW; SPEED: 1370 RPM; FRAME: DA1328; CURRENT: 1.4-0.8 A; POTENTIAL: 220/380 VAC; MOUNTING: FOOT/B14 FLANGE; ENCLOSURE RATING: IP54; SHAFT SIZE: DIA 14 X LG 30 MM; CONNECTION LOCATION: TOP; CLASSIFICATION: ASH AND DUST; POLES: 4; INSULATION CLASS: B; PHASE: 3; CASING MATERIAL: STEEL; SERVICE FACTOR: S1; TEMPERATURE CLASS: 155 (F); DIRECTION: BI-DIRECTIONAL; TYPE: AC; REFERENCE NO: DA132-8; 4 X 8 MM DIA, MTG CENTRE 80 X 100 MM, BASE TO SHAFT CENTRE 65 MM, CONNECTION STAR/DELTA, 50 HZ	INDUCTION MOTOR 4P	10
77	141889	MOTOR, ELECTRIC: POWER: 7.5 KW; SPEED: 1435 RPM; FRAME: DZ132M; CURRENT: 16.6 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP44; SHAFT SIZE: DIA 38 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: ADZ8049/25; DZ132M; STAR DELTA; IC 0141; BEARINGS DE AND NDE 6208Z; LUB BP LS3; 50 HZ	INDUCTION MOTOR 4P	10
78	178964	MOTOR, ELECTRIC: POWER: 15 KW; SPEED: 1445 RPM; FRAME: FT160L; CURRENT: 48.5-28 A; POTENTIAL: 220/380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 42 X LG 110 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; CONNECTION DELTA/STAR, 0.90 SERVICE FACTOR, 50 HZ	INDUCTION MOTOR 4P	10
79	178967	MOTOR, ELECTRIC: POWER: 47 KW; SPEED: 730 RPM; FRAME: 280M; CURRENT: 115-112 A; POTENTIAL: 225/380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT	INDUCTION MOTOR 8P	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	MOTOR TYPE	EST. QTY 5YRS
		SIZE: DIA 100 X LG 190 MM; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: 1LT4283-8AA10Z; CONNECTION STAR, IC0141		
80	178968	MOTOR, ELECTRIC: POWER: 30/3.2 KW; SPEED: 150-1430 RPM; FRAME: ED180S/H; CURRENT: 62-25 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP54; SHAFT SIZE: DIA 55 X LG 110 MM; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: DB3-200LB3.2/30-32/4; CONNECTION STAR/STAR, 50 HZ	INDUCTION MOTOR 4P 2X SPEED	5
81	179017	MOTOR, SERVO: POTENTIAL: 220 V; POWER: 36 W; APPLICATION: INTERMEDIATE PRESSURE EMERGENCY STOP VALVE; DRAWING NO: B42.73600-0042 REV 0; REFERENCE NO: 7360	SERVO MOTOR SINGLE PHASE	10
82	179018	MOTOR, SERVO: POTENTIAL: 220 V; SUPPL P/N: TWFZ2 91001; DRAWING NO: B42.71600-0074 REV 1; REFERENCE NO: 921527 7160; HIGH PRESSURE EMERGENCY STOP VALVE	SERVO MOTOR SINGLE PHASE	10
83	179028	MOTOR, ELECTRIC: POWER: 45 KW; SPEED: 2950 RPM; FRAME: D225M; CURRENT: 90 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 55 X LG 110 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; 50 HZ	INDUCTION MOTOR 2P	20
84	179041	MOTOR, ELECTRIC: POWER: 3 KW; SPEED: 1420 RPM; CURRENT: 7.1 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP65; PHASE: 3; COMPLETE WITH GEARBOX , 0.79 SERVICE FACTOR	MOTOR AND GEARBOX SPEED RATIO	5
85	179042	MOTOR, ELECTRIC: POWER: 37 KW; SPEED: 1475 RPM; FRAME: D225SD; CURRENT: 75.5 A; POTENTIAL: 380 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 60 X LG 140 MM; CONNECTION LOCATION: DELTA; INSULATION CLASS: F; PHASE: 3; CONNECTION DELTA, 50 HZ, IC0141	INDUCTION MOTOR 4P	10
86	179044	MOTOR, ELECTRIC: POWER: 30 KW; SPEED: 1465 RPM; FRAME: 200L; CURRENT: 58 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 58 X LG 112 MM; INSULATION CLASS: F; PHASE: 3; GEC, CONNECTION DELTA	INDUCTION MOTOR 4P	10
87	179048	MOTOR, ELECTRIC: POWER: 3 KW; SPEED: 1415 RPM; CURRENT: 11.8-6.8 A; POTENTIAL: 220/380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 28 X LG 63 MM; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: 1LC3107-4AD21-	INDUCTION MOTOR 4P	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ ORDER TEXT	PURCHASE	MOTOR TYPE	EST. QTY 5YRS
		Z; CONNECTION STAR, 50 HZ; 0.82 SERVICE FACTOR			
88	185372	MOTOR, ELECTRIC: POWER: 0.55 KW; SPEED: 1390 RPM; FRAME: 71ZB; CURRENT: 1.65 A; POTENTIAL: 380 VAC; MOUNTING: B30; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 104 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F80; PHASE: 3; SERVICE FACTOR: S1; IC41, SHAFT LENGTH WILL BE FROM DRIVE END SHIELD TO SHAFT END, THREAD M16 FOR 41MM ON END OF SHAFT, CONNECTION STAR, 50 HZ		INDUCTION MOTOR 4P	10
89	186315	MOTOR, ELECTRIC: POWER: 5.9 KW; SPEED: 1000 RPM; FRAME: YD180L; CURRENT: 15.6 A; POTENTIAL: 400 V; MOUNTING: IM1001; ENCLOSURE RATING: IP55; INSULATION CLASS: F; SERVICE FACTOR: S1; CONNECTION SHUNT, 1001		INDUCTION MOTOR 6P	10
90	186320	MOTOR, ELECTRIC: POWER: 15 KW; SPEED: 1445 RPM; FRAME: DX160L; CURRENT: 29.8 A; POTENTIAL: 380 V; MOUNTING: DX1601; ENCLOSURE RATING: IP55; INSULATION CLASS: F; SERVICE FACTOR: S1; BEARINGS DE 6309Z AND NDE 6309Z, CONNECTION DELTA		INDUCTION MOTOR 4P	10
91	186359	MOTOR, ELECTRIC: POWER: 11 KW; SPEED: 1445 RPM; FRAME: 160; CURRENT: 22.3 A; POTENTIAL: 380 V; MOUNTING: FLANGE; ENCLOSURE RATING: IP66; SHAFT SIZE: DIA 42 X LG 100 MM; INSULATION CLASS: F; PHASE: 3; CASING MATERIAL: CAST IRON; SERVICE FACTOR: S1; TEMPERATURE CLASS: 155 DEG C; TYPE: HIGH EFFICIENCY; GEC, CONNECTION DELTA		INDUCTION MOTOR 4P	10
92	186365	MOTOR, ELECTRIC: POWER: 22/14.7 KW; SPEED: 1479/992 RPM; FRAME: D2255; CURRENT: 40-33 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; REFERENCE NO: B1699/11E; GEC, CONNECTION STAR/DELTA		INDUCTION MOTOR 4P/6P 2X SPEED	10
93	194296	MOTOR, ELECTRIC: POWER: 5.5 KW; SPEED: 1430 RPM; FRAME: DZ132S; CURRENT: 12 A; POTENTIAL: 380 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP55; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; CONNECTION STAR		INDUCTION MOTOR 4P	10
94	213055	MOTOR, BRAKE: POWER: 7.5 KW; SPEED: 1470 RPM; FRAME: 132M; CURRENT: 14.2 A; POTENTIAL: 380 VAC; PHASE: 3; COMPLETE UNIT INCLUDING IGS BRAKE 70NM FDW17 380V DC IP65, PROXY SWITCH B12-EG-08-AP-X6, RECTIFIER SG3.575/A, TERMINAL		INDUCTION MOTOR 4P WITH	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ ORDER TEXT	PURCHASE	MOTOR TYPE	EST. QTY 5YRS
		BOXES, RAIN CANOPY; USED ON COAL STACKER RECLAIMER; 0.88 SERVICE FACTOR, CONNECTION STAR, 50HZ; ENCLOSURE RATING: IP55; INSULATION CLASS: F; MOUNTING: B5 FLANGE/ B3 FOOT; SHAFT SIZE: DIA 38 MM; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).		IGS BRAKE	
95	213056	MOTOR, ELECTRIC: POWER: 7.5 KW; SPEED: 1470 RPM; FRAME: 132M; CURRENT: 14.2 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; B5 FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 38 MM; CONNECTION LOCATION: STAR; INSULATION CLASS: F; PHASE: 3; COMPLETE UNIT INCLUDING IGS BRAKE 70 NM FDW17 380 VDC IP65, PROXY SWITCH B12-EG-08-AP-X6, RECTIFIER SG3.575/A, FITTED WITH TACHO GENERATOR TDP 0.7, TERMINAL BOXES, RAIN CANOPY, USED FOR MOTOR NO 8 COAL STACKER RECLAIMER, CONNECTION STAR, 50 HZ, 0.88 SERVICE FACTOR		INDUCTION MOTOR 4P WITH IGS BRAKE	10
96	219740	MOTOR, ELECTRIC: POWER: 2.2 KW; SPEED: 1435 RPM; FRAME: DZ100L; CURRENT: 514 A; POTENTIAL: 380 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP44; SHAFT SIZE: DIA 28 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; SHAFT WITH SLOT KEY WAY, CONNECTION DELTA, 50 HZ		INDUCTION MOTOR 4P	10
97	219741	MOTOR, ELECTRIC: POWER: 2.2 KW; SPEED: 1415 RPM; FRAME: 100LA; CURRENT: 8.32 A; POTENTIAL: 230 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 28 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; CONNECTION DELTA, 50 HZ		INDUCTION MOTOR 4P	10
98	219801	MOTOR, ELECTRIC: POWER: 0.75 KW; SPEED: 935 RPM; FRAME: 90L; CURRENT: 3.8-2.2 A; POTENTIAL: 230/400 VAC; MOUNTING: B30; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 24 MM; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; CONNECTION DELTA		INDUCTION MOTOR 6P	10
99	243333	MOTOR, ELECTRIC: POWER: 4 KW; SPEED: 1345 RPM; FRAME: 112; CURRENT: 9.5 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE B5; PHASE: 3		INDUCTION MOTOR 4P	10
100	256330	MOTOR, ELECTRIC: POWER: 4 KW; SPEED: 1445 RPM; CURRENT: 8.3 A; POTENTIAL: 400		INDUCTION MOTOR	10

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		V; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP55; CONNECTION LOCATION: REAR SIDE; CLASSIFICATION: ZONE 2; POLES: 4; INSULATION CLASS: F; PHASE: 3; CASING MATERIAL: CI; SERVICE FACTOR: 0.8; DIRECTION: CLOCKWISE; SPECIFICATION: SK112M/4; TYPE: HIGH EFFICIENCY; OFF LOADING PUMP; TO BE USED AT SO3 PLANT, GROUP: CLASS 1 DIV (2 T3)		4P	
101	256331	MOTOR, ELECTRIC: POWER: 11 KW; SPEED: 2930 RPM; FRAME: 160M; CURRENT: 20.22 A; POTENTIAL: 400 V; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP55; CONNECTION LOCATION: REAR SIDE NDE; CLASSIFICATION: ZONE 2 ; POLES: 2; INSULATION CLASS: F; PHASE: 3; CASING MATERIAL: CI; SERVICE FACTOR: 0.89; DIRECTION: CLOCKWISE; SPECIFICATION: LS 4163-2AA; TYPE: HIGH EFFICIENCY; TYPE TRANSFER PUMP; TO BE USED AT SO3 PLANT		INDUCTION MOTOR 2P EX RATED	10
102	256385	MOTOR, ELECTRIC: POWER: 2.2 KW; SPEED: 1420 RPM; FRAME: 100L; CURRENT: 8.8 A; POTENTIAL: 380 VAC; MOUNTING: B5; ENCLOSURE RATING: IP54; INSULATION CLASS: F; PHASE: 3; TYPE: OIL PUMP; USED AT ASH PLANT		INDUCTION MOTOR 4P	10
103	256465	MOTOR, ELECTRIC: POWER: 1.5 KW; SPEED: 1420 RPM; CURRENT: 3.15 A; POTENTIAL: 380 VAC; MOUNTING: B5; ENCLOSURE RATING: IP55; PHASE: 3; TYPE: COOLING FAN; TO BE USED AT ASH PLANT, BEARING DE=6205ZZ, NDE=6205ZZ		INDUCTION MOTOR 4P	10
104	566161	MOTOR, ELECTRIC: POWER: 4 KW; SPEED: 1445 RPM; FRAME: 112M; CURRENT: 8.6 A; POTENTIAL: 380 V; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 28 X LG 60 MM; CONNECTION LOCATION: TOP; POLES: 4; INSULATION CLASS: F; PHASE: 3; CASING MATERIAL: ALUMINIUM; SERVICE FACTOR: 0.97; TEMPERATURE CLASS: B; SPECIFICATION: EN50347; TYPE: HYDRAULIC PUMP; REFERENCE NO: QS112M4B; FOR REHEAT SAFETY & HP BYPASS VALVE; DUTY CYCLES & COOLING METHOD IC411; PAINT RAL/6011-RESEDA GREEN; SOUND PRESSURE LEVEL 58DBA; TO BE MANUFACTURED ACCORDING TO SPECIFICATION		INDUCTION MOTOR 4P	10
105	579512	MOTOR, ELECTRIC: POWER: 2.2 KW; SPEED: 2830 RPM; FRAME: D90L; CURRENT: 4.3 A;		INDUCTION MOTOR	10

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		POTENTIAL: 380 VAC; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP66; SHAFT SIZE: DIA 24 X LG 50 MM; CONNECTION LOCATION: VERTICAL; POLES: 2; INSULATION CLASS: F; PHASE: 3; TYPE: FAN OIL PUMP		2P	
106	584496	MOTOR, ELECTRIC: POWER: 30 KW; SPEED: 1450 RPM; FRAME: D200L; MOUNTING: B3; ENCLOSURE RATING: IP67; SHAFT SIZE: 55 MM; CONNECTION LOCATION: RH SIDE; TYPE: INDUCTION		INDUCTION MOTOR 4P	10
107	589676	MOTOR, ELECTRIC: POWER: 1.1 KW; SPEED: 1440 RPM; FRAME: D90L/S; CURRENT: 4.85 A; POTENTIAL: 380 V; MOUNTING: B5 FLANGE; ENCLOSURE RATING: IP66; SHAFT SIZE: DIA 24 MM; CONNECTION LOCATION: LEFT; CLASSIFICATION: IP66; POLES: 4; INSULATION CLASS: F/H; PHASE: 3; CASING MATERIAL: CAST IRON; SERVICE FACTOR: S1; TEMPERATURE CLASS: F; DIRECTION: CLOCKWISE; SPECIFICATION: 1804-1; TYPE: T8 OIL COUPLING DRIVE; SHAFT HEIGHT: 56 MM		INDUCTION MOTOR 4P	10
108	594566	MOTOR, ELECTRIC: POWER: 11 KW; SPEED: 1450 RPM; FRAME: 160M; CURRENT: 22.6 A; POTENTIAL: 380 VAC; MOUNTING: B3; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 42 MM; CONNECTION LOCATION: TOP; POLES: 4; INSULATION CLASS: F; TEMPERATURE CLASS: F; TYPE: EFFICIENT SUMP PUMP; SHAFT KEYWAY: 12 MM		INDUCTION MOTOR 4P	10
109	638085	MOTOR, ELECTRIC: POWER: 3 KW; SPEED: 1410 RPM; FRAME: 100L; CURRENT: 7.17 A; POTENTIAL: 380 V; MOUNTING: B14; ENCLOSURE RATING: IP55; SHAFT SIZE: 24 MM; CONNECTION LOCATION: LH; CLASSIFICATION: DUST/OIL; POLES: 4; INSULATION CLASS: H; PHASE: 3; CASING MATERIAL: CAST IRON; SERVICE FACTOR: 1; TEMPERATURE CLASS: 105 K; DIRECTION: CLOCKWISE AND ANTI-CLOCKWISE; SPECIFICATION: INDUCTION MOTOR SQUIRREL CAGE ROTOR 3 PH; TYPE: MAIN TURBINE LUBE OIL PURIFIER		INDUCTION MOTOR 4P	10
110	646657	MOTOR, ELECTRIC: POWER: 5.9 KW; SPEED: 1000 RPM; FRAME: YD180L; CURRENT: 15.6 A; POTENTIAL: 400 VDC; MOUNTING: 1M3001 (B5); ENCLOSURE RATING: IP65; SHAFT SIZE: 48 MM; CONNECTION LOCATION: LEFT HAND SIDE; CLASSIFICATION: COAL/DUST; INSULATION CLASS: F; TYPE: SLEW DRIVE; HIGH EFFICIENCY & EX PROOF FOR HAZLOC COMPLIANCE		INDUCTION MOTOR 6P EX RATED	10

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111	662301	MOTOR, ELECTRIC: POWER: 15 KW; SPEED: 2910 RPM; FRAME: 160M; CURRENT: 29.5 A; POTENTIAL: 380 V; MOUNTING: B3; ENCLOSURE RATING: IP65; SHAFT SIZE: DIA 42 MM; CONNECTION LOCATION: LEFT HAND SIDE; POLES: 2; INSULATION CLASS: F; SERVICE FACTOR: S1; TEMPERATURE CLASS: 155 (F); DIRECTION: CLOCKWISE	INDUCTION MOTOR 2P	10
112	667105	MOTOR, ELECTRIC: POWER: 5.5 KW; SPEED: 1465 RPM; FRAME: 132S; CURRENT: 11.4/6.56 A; POTENTIAL: 380 V; MOUNTING: B5; ENCLOSURE RATING: IP66; SHAFT SIZE: 38 MM; CONNECTION LOCATION: RIGHT; CLASSIFICATION: SAFE; POLES: 4; INSULATION CLASS: H; PHASE: 3; CASING MATERIAL: CAST IRON; SERVICE FACTOR: 1; TEMPERATURE CLASS: B RISE; TYPE: 3-PHASE INDUCTION; FOR USE ON HP BY-PASS; W22 CAST IRON FRAME-STANDARD EFFICIENCY IE2	INDUCTION MOTOR 4P	10
113	696374	MOTOR, ELECTRIC: POWER: 0.55 KW; SPEED: 920 RPM; FRAME: KDY80D; CURRENT: 1.6 A; POTENTIAL: 380 V; MOUNTING: B5 FLANGE; ENCLOSURE RATING: IP 55; SHAFT SIZE: 19 MM; CONNECTION LOCATION: TOP; POLES: 6; INSULATION CLASS: F; PHASE: 3; CASING MATERIAL: CAST IRON; TEMPERATURE CLASS: 80 K; SHAFT SIZE: 19J6	INDUCTION MOTOR 6P	10
114	728785	MOTOR, ELECTRIC: POWER: 1.1 KW; SPEED: 1420 RPM; FRAME: BK50Z-54HL; CURRENT: 0.15 A; POTENTIAL: 380 VAC; MOUNTING: H1; ENCLOSURE RATING: IP 66; SHAFT SIZE: 30 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: 0.76; TYPE: STACKER TRIPPER TRAVEL DRIVES; REFERENCE NO: BK50Z-54HL/DO9SA4-S/FSX010A9/C3-SP; COMPLETE UNIT INCLUDING ESX010A9 BRAKE ; BRAKE TORQUE: 10 NM; SUPPLY 180 VDC/380 VAC	INDUCTION MOTOR 6P WITH BRAKE	10
115	635512	MOTOR, ELECTRIC: POWER: 0.25 KW; SPEED: 1370-1500 RPM; FRAME: 71; CURRENT: 0.82 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 14 X LG 30 MM; CONNECTION LOCATION: STAR; POLES: 4; INSULATION CLASS: B; PHASE: 3; CASING MATERIAL: CAST IRON; SERVICE FACTOR: S1; TEMPERATURE CLASS: HIGH; REFERENCE NO: TPW0203050	INDUCTION MOTOR 4P	50

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116	178891	MOTOR, ELECTRIC: POWER: 6 KW; SPEED: 2634 RPM; FRAME: KFC160; CURRENT: 0.227-0.166 A; POTENTIAL: 220 VDC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 42 X LG 110 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 1; SERVICE FACTOR: S1; CONNECTION 1	INDUCTION MOTOR 2P	5
117	140574	PUMP, CENTRIFUGAL: NPSH: 4 M; CAPACITY: 1.1/2.2/2.9 M3/HR; TOTAL HEAD: 3-4 M; SIZE: 38.1 X 25 MM; SPEED: 1750-2190-2490 RPM; STAGE: SINGLE; DRIVER: ELECTRIC MOTOR 220 VAC 0.39/0.26/0.18 A 1 PH; TYPE: CIRCULATORY; SPECIFICATION: CRI-CCB04-25A; REFERENCE NO: CRI-CCBO4-25A; STATION DIESEL GENERATOR HOT WATER CIRCULATION		5
118	587307	MOTOR, ELECTRIC: POWER: 0.55 KW; SPEED: 2835 RPM; FRAME: M71-2; CURRENT: 1.3 A; POTENTIAL: 380 V; MOUNTING: B3 FOOT/B5 FLANGE; ENCLOSURE RATING: IP54; SHAFT SIZE: DIA 14 X 80 LG MM; CONNECTION LOCATION: TOP DE SIDE; POLES: 2; INSULATION CLASS: F; PHASE: 3; CASING MATERIAL: CAST IRON; TYPE: MAIN OIL TANK VENT FAN; KEYWAY 5 MM WIDE X 3 MM DEEP	INDUCTION MOTOR 2P	5
119	618387	MOTOR, ELECTRIC: POWER: 0.18 KW; SPEED: 1370 RPM; FRAME: 63; CURRENT: 0.563 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE B14; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 11 X LG 22 MM; CONNECTION LOCATION: LEFT; POLES: 4; INSULATION CLASS: F; PHASE: 3; CASING MATERIAL: CAST IRON; TYPE: MILL PLANT	INDUCTION MOTOR 4P	15
120	579512	MOTOR, ELECTRIC: POWER: 2.2 KW; SPEED: 2830 RPM; FRAME: D90L; CURRENT: 4.3 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP66; SHAFT SIZE: DIA 24 X LG 50 MM; CONNECTION LOCATION: VERTICAL; POLES: 2; INSULATION CLASS: F; PHASE: 3; TYPE: FAN OIL PUMP	INDUCTION MOTOR 2P	5
121	140697	MOTOR, ELECTRIC: POWER: 1.5 KW; SPEED: 935 RPM; FRAME: DZ100LD; CURRENT: 3.7 A; POTENTIAL: 380 VAC; MOUNTING: B5 FLANGE/FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 27 X LG 62 X HT 100 MM; INSULATION CLASS: F; PHASE: 3; TYPE: INDUCTION; BEARINGS DE AND NDE - 6206Z, CONNECTION STAR, 50 HZ, IC0141	INDUCTION MOTOR 6P	5

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	MOTOR TYPE	EST. QTY 5YRS
122	750509	MOTOR, ELECTRIC: POWER: 3 KW; SPEED: 2880 RPM; FRAME: DX100LD; CURRENT: 6.2 A; POTENTIAL: 380 V; MOUNTING: FLANGE (B5); ENCLOSURE RATING: IP66; SHAFT SIZE: 28 MM; CONNECTION LOCATION: TOP; POLES: 2; INSULATION CLASS: H; PHASE: 3; CASING MATERIAL: CASING IRON; SERVICE FACTOR: S1; CONNECTION DELTA	INDUCTION MOTOR 2P	5
123	566160	MOTOR, ELECTRIC: POWER: 0.37 KW; SPEED: 1390 RPM; FRAME: 71M; CURRENT: 1.12 A; POTENTIAL: 380 V; MOUNTING: FLANGE B5; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 14 X LG 30 MM; CONNECTION LOCATION: TOP; POLES: 4; INSULATION CLASS: F; PHASE: 3; CASING MATERIAL: ALUMINIUM; SERVICE FACTOR: 0.69; TEMPERATURE CLASS: B; SPECIFICATION: EN50347; TYPE: DUTY CYCLES; REFERENCE NO: QS71M4B; 000101007190; REHEAT SAFETY & HP BYPASS VALVES; OIL FILTER MOTOR; DUTY CYCLES & COOLING METHOD 1C411; PAINT RAL6011-RESEDA GREEN; SOUND PRESSURE LEVEL 45DBA; TO BE MANUFACTURED ACCORDING TO SPECIFICATION	INDUCTION MOTOR 4P	5
124	140716	PUMP, ASSEMBLY: TYPE: MOTOR; REFERENCE NO: CA90 CALPEDA SPA; RATING 220/380 VOLT; 3/1.73 AMP; 0.75HP; 0.55KW; 2900RPM; 50HZ; 3 PHASE; DELEVERY 8/40 M 42/17		5

Table 2: List of LV motors from 55kW and above

ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	UNIT OF MEASURE	EST.QTY 5YRS
125	139576	MOTOR, ELECTRIC: POWER: 55 KW; SPEED: 2800 RPM; CURRENT: 3.3-1.9 A; POTENTIAL: 380 V; MOUNTING: FLANGE; ENCLOSURE RATING: IP67; INSULATION CLASS: F; PHASE: 3; TYPE: ACTUATOR; REFERENCE NO: MD71-2-60; VDE0532/72; MD 71-2-60; 50 HZ; STAR DELTA CONNECTION; S2-10 MIN	INDUCTION MOTOR 2P S2 FOR ACTUATOR	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	UNIT OF MEASURE	EST.QTY 5YRS
126	140045	MOTOR, ELECTRIC: POWER: 110 KW; SPEED: 1480 RPM; FRAME: D280M; CURRENT: 217 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 80 X LG 170 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: D280MD; BEARINGS DE NUN4317, NDE 6314, CONNECTION DELTA/STAR, 50 HZ, IC0141	INDUCTION MOTOR 4P	10
127	140195	MOTOR, ELECTRIC: POWER: 90 KW; SPEED: 1480 RPM; FRAME: 1LA6283-4AA0Z; CURRENT: 168-97 A; POTENTIAL: 380/660 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP54; SHAFT SIZE: DIA 75 X LG 138 MM; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: 1LA6-283-4AA0Z; CONNECTION DELTA/STAR, 0.85 SERVICE FACTOR, 50 HZ	INDUCTION MOTOR 4P	10
128	140243	MOTOR, ELECTRIC: POWER: 55 KW; SPEED: 2955 RPM; FRAME: FA250MW2; CURRENT: 103-178 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 61 X LG 140 MM; POLES: 2; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: FA250MW2; CONNECTION STAR/DELTA, THE FRAME IS NOT STANDARD FOR A 55 KW, DISTANCE BETWEEN HOLES IN FOOT 349 MM, SHAFT DIAMETER 60 MM, REFER TO D250M FRAME DIMENSIONS, PUMP A AND B, 50 HZ	INDUCTION MOTOR 2P	10
129	140279	MOTOR, ELECTRIC: POWER: 75 KW; SPEED: 1480 RPM; FRAME: D280SD; CURRENT: 144 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; B5 FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 80 X LG 170 MM; CONNECTION LOCATION: DELTA; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: D280SD; BEARINGS DE 317 AND NDE 6314, CONNECTION DELTA, 50 HZ	INDUCTION MOTOR 4P	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	UNIT OF MEASURE	EST.QTY 5YRS
130	140289	MOTOR, ELECTRIC: POWER: 75 KW; SPEED: 1480 RPM; FRAME: D280SD; CURRENT: 147 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 80 X LG 170 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: D280SD; BEARINGS DE NU317 AND NDE 6317, PLANT TURBINE BEARING OIL PUMP, CONNECTION DELTA, 50 HZ, IC0141	INDUCTION MOTOR 4P	10
131	140290	MOTOR, ELECTRIC: POWER: 90 KW; SPEED: 1480 RPM; FRAME: D280SQ; CURRENT: 177 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; B5 FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 80 X LG 145 MM; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: D280SQ; BEARINGS DE NU317 AND NDE 6314, CONNECTION DELTA, 50 HZ, IC0141	INDUCTION MOTOR 4P	10
132	140516	MOTOR, ELECTRIC: POWER: 55 KW; SPEED: 1480 RPM; FRAME: D250SD; CURRENT: 101 A; POTENTIAL: 380 V 50 HZ; MOUNTING: V1 FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 70 X LG 140 X HT 275 MM; CONNECTION LOCATION: TOP; PHASE: 3; SUPPL P/N: D250SD; BEARINGS DE - NU313, NDE - 6312, CONNECTION DELTA	INDUCTION MOTOR 4P	15
133	140524	MOTOR, ELECTRIC: POWER: 55 KW; SPEED: 1390 RPM; FRAME: 80; CURRENT: 1.65 A; POTENTIAL: 380 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 18 X LG 40 MM; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: 150267643; COOL IC41, BEARINGS DE - 6204 2Z, NDE - 6303 2Z, CONNECTION STAR, 50 HZ, IC0141	INDUCTION MOTOR 4P	5

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	UNIT OF MEASURE	EST.QTY 5YRS
134	178965	MOTOR, ELECTRIC: POWER: 160 KW; SPEED: 1487 RPM; FRAME: D315M; CURRENT: 291 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP65; SHAFT SIZE: DIA 85 X LG 175 MM; CONNECTION LOCATION: RH; INSULATION CLASS: F; PHASE: 3; SUPPL P/N: LA6311-4AA-AAAA; REFERENCE NO: D315; SIEMENS, CONNECTION DELTA, 50 HZ	INDUCTION MOTOR 4P	10
135	178973	MOTOR, ELECTRIC: POWER: 132 KW; SPEED: 1485 RPM; FRAME: D315S; CURRENT: 259 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP65; SHAFT SIZE: DIA 85 X LG 170 MM; CONNECTION LOCATION: LEFT FROM FAN COVER; INSULATION CLASS: F; PHASE: 3; TYPE: TRANSEVERSE CONVEYORS; CONNECTION DELTA, 50 HZ, IC41	INDUCTION MOTOR 4P	10
136	178978	MOTOR, ELECTRIC: POWER: 132 KW; SPEED: 1485 RPM; FRAME: D315SD; CURRENT: 259 A; POTENTIAL: 380 VAC; MOUNTING: B5 FLANGE; ENCLOSURE RATING: IP65; SHAFT SIZE: DIA 85 X LG 170 MM; CONNECTION LOCATION: TOP; POLES: 4; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: D315SD; SUITABLE FOR OVERSILOS T3 & T5 (X4); LP HEATER DRAIN PUMPS U1-U6; CONNECTION BOX MUST BE ON TOP; 50 HZ, IC0141	INDUCTION MOTOR 4P	10
137	178982	MOTOR, ELECTRIC: POWER: 55 KW; SPEED: 1480 RPM; FRAME: D250S; CURRENT: 101 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 70 X LG 142 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; REFERENCE NO: D250S; USED ON DIRTY DRAIN RECOVERY PUMPS, BEARING SIZES DRIVE END NU315, NON DRIVE END 6312, CONNECTION DELTA, 50 HZ	INDUCTION MOTOR 4P	10

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	UNIT OF MEASURE	EST.QTY 5YRS
138	178983	MOTOR, ELECTRIC: POWER: 75 KW; SPEED: 2965 RPM; FRAME: D250M; CURRENT: 134 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 60 X LG 142 MM; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: DX1325; CONNECTION DELTA, 50 HZ	INDUCTION MOTOR 2P	5
139	179001	MOTOR, ELECTRIC: POWER: 185 KW; SPEED: 1440 RPM; FRAME: D315; CURRENT: 311 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 85 X LG 170 MM; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: D315MX; CONNECTION DELTA, 50 HZ, IC0141	INDUCTION MOTOR 4P	5
140	179021	MOTOR, ELECTRIC: POWER: 90 KW; SPEED: 2965 RPM; FRAME: D280SD; CURRENT: 163 A; POTENTIAL: 380 VAC; MOUNTING: FLANGE; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 65 X LG 150 X HT 275 MM; CONNECTION LOCATION: TOP; INSULATION CLASS: F; PHASE: 3; CONNECTION DELTA, 50 HZ; MUST HAVE TWO LIFTING POINTS; ONE ON EACH SIDE OF THE MOTOR; FOOT MOUNT NOT APPLICABLE; ONE ON EACH SIDE OF THE MOTOR, THE MOTOR IS MOUNTED VERTICALLY FLANGE DOWN	INDUCTION MOTOR 2P	10
141	179049	MOTOR, ELECTRIC: POWER: 160 KW; SPEED: 1485 RPM; FRAME: 315M; CURRENT: 295 A; POTENTIAL: 380 VAC; MOUNTING: FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 85 X LG 170 MM; INSULATION CLASS: F; PHASE: 3; REFERENCE NO: 1LA6316-4YA70; B3; K4119315; 315M; FOR BUCKET WHEEL COAL STACKER / RECLAIMER, CONNECTION DELTA, 1.0 SERVICE FACTOR, 50 HZ	INDUCTION MOTOR 4P	5
142	186340	MOTOR, ELECTRIC: POWER: 75 KW; SPEED: 1480 RPM; CURRENT: 148 A; POTENTIAL: 380 V; INSULATION CLASS: F; CONNECTION DELTA	INDUCTION MOTOR 4P	5

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	UNIT OF MEASURE	EST.QTY 5YRS
143	197976	MOTOR, ELECTRIC: POWER: 90 KW; SPEED: 985 RPM; FRAME: D315S; CURRENT: 174 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; SHAFT SIZE: DIA 85 MM; CONNECTION LOCATION: DELTA; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S1; BEARINGS DE NU318 NDE 6317, CONNECTION DELTA	INDUCTION MOTOR 6P	5
144	217208	MOTOR, ELECTRIC: POWER: 132 KW; SPEED: 2965 RPM; FRAME: 315S/M; CURRENT: 232 A; POTENTIAL: 380 VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; INSULATION CLASS: F; PHASE: 3; FOR HP FUEL OIL PUMP, CONNECTION DELTA, 50HZ	INDUCTION MOTOR 2P	5
145	570880	MOTOR, ELECTRIC: POWER: 90 KW; SPEED: 1480 RPM; FRAME: 280S/M; CURRENT: 164 A; POTENTIAL: 380 V; MOUNTING: FLANGE/FOOT; ENCLOSURE RATING: IP66; SHAFT SIZE: OD 80 MM; CONNECTION LOCATION: TOP; CLASSIFICATION: EFF1; POLES: 4; INSULATION CLASS: H; PHASE: 3; CASING MATERIAL: CI; SERVICE FACTOR: 1; TEMPERATURE CLASS: B	INDUCTION MOTOR 4P	5
146	584499	MOTOR, ELECTRIC: POWER: 185 KW; SPEED: 1440 RPM; FRAME: D315M; CURRENT: 311 A; POTENTIAL: 380 VAC; MOUNTING: B3; ENCLOSURE RATING: IP65; SHAFT SIZE: DIA 90 MM; CONNECTION LOCATION: LEFT HAND SIDE; TYPE: INDUCTION	INDUCTION MOTOR 4P	5
147	585934	MOTOR, ELECTRIC: POWER: 185 KW; SPEED: 1440 RPM; FRAME: D315S; CURRENT: 311 A; POTENTIAL: 380-400 V; MOUNTING: B3; ENCLOSURE RATING: IP65; SHAFT SIZE: DIA 170 X LG 85 MM; CONNECTION LOCATION: LEFT HAND SIDE; POLES: 4; INSULATION CLASS: F; PHASE: 3; TYPE: INDUCTION	INDUCTION MOTOR 4P	5

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ITEM	MATERIAL	MATERIAL DESCRIPTION/ PURCHASE ORDER TEXT	UNIT OF MEASURE	EST.QTY 5YRS
148	698854	MOTOR, ELECTRIC: POWER: 55 KW; SPEED: 980 RPM; FRAME: 280M; CURRENT: 117 A; POTENTIAL: 380 VAC; MOUNTING: B3; ENCLOSURE RATING: IP55; SHAFT SIZE: 80 MM; CONNECTION LOCATION: STAR; INSULATION CLASS: F; PHASE: 3; SERVICE FACTOR: S3; TYPE: SLIPRING INDUCTION MOTOR; REFERENCE NO: 1LT42836AA10Z; COOLING IC: 0141: POWER FACTOR: 0.78; FREQUENCY: 50 HZ; MASS: 770 KG; NDE BEARING: NU317 C3; DUTY CYCLE: S3/100 PCT; ROTOR VOLTAGE: 235 V; ROTOR CURRENT: 141 A	INDUCTION MOTOR 6P	5
149	139998	MOTOR ELEC: POWER: 75/9.4 KW; SPEED: 1475/730 RPM; FRAME: D280S/M; CURRENT: 140-36.5 A; POTENTIAL: 380VAC; MOUNTING: B3 FOOT; ENCLOSURE RATING: IP55; INSULATION CLASS: F; PHASE: 3; TYPE: INDUCTION; CONNECTION STAR/STAR; 50HZ; 0.87/0.45 SERVICE FACTOR	INDUCTION MOTOR 4P/8P 2X SPEED	5

3.3 Motor Manufacturer’s Experience

Matimba Power Station shall purchase LV motors from an experienced and well-established motor manufacturer with minimum manufacturing experience of 5 years. The Supplier of motors selects the manufacturer that meet the minimum experience and provide confirmation letter from the manufacturer.

3.4 Procedure for Submission and Acceptance of Supplier’s Design

The Supplier shall provide technical datasheet and preliminary outline drawing per motor design for the Employer to conduct mechanically and electrically interchangeable assessment during tender phase.

The tendered OEM technical datasheet shall have the following minimum electrical, mechanical and environmental information:

- **Electrical:** Rated output power, voltage, current, speed, torque, starting current, starting and breakdown down torque, frequency, efficiency, power factor, efficiency class, temperature rise, number of phases, insulation class, connection type, duty, service factor and design standards (IEC60034).

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- **Mechanical:** Frame size, mounting type, IP rating, weight, frame material, bearing type and cooling method.
- **Environment:** Altitude and ambient temperature range.

The tendered OEM preliminary drawing shall have the following minimum information:

- Motor dimensions: (H(A/B/C) D/E) for foot mount frame or M/N/P/T/S/D/E for flange mount. Dimension definition found in SAN1804-2.
- Motor maximum length, height and width
- Terminal box position

In the absence of motor torque-speed curves from Matimba Power Stations, the Supplier shall provide motor designs with starting performance equal or higher than starting performance defined in SANS 60034-12: Starting performance of single speed three-phase induction motor.

After contract award, the Supplier shall provide the following documentation per design

- Detail outline drawing,
- Power winding diagrams and connection diagrams for auxiliaries (heaters, thermistors, PT100, etc),
- Torque and Current versus Speed Curves for the motor at motor rated voltage,
- Efficiency and Power Factor versus Load Curves from 50% to 100% load,
- Nameplate drawing with all details to be contained therein.

3.5 Quality Assurance and Testing

All the quality assurance and testing will be done according to Eskom Standard 240-57617975: New Low Voltage Induction Motors Procurement Standard.

Routine test certificates shall be provided for each motor before delivery of the motors. The Employer reserves the right to request the Supplier to conduct the routine test witnessing if the test certificates are not acceptable. The Supplier shall provide a local factory capable of testing LV induction motors.

3.6 Documentation

Documentation is as per 240-57617975, New low voltage induction motors procurement Standard.

3.7 Labelling

All labels shall be in English, and the wording is subject to Employer's approval. Abbreviations to descriptions shall not be acceptable. Where abbreviations are unavoidable due to database field length limitations or limited number of characters available on labels, the abbreviations shall be in accordance with Employer's abbreviation standard. Labels for removable items shall be mounted alongside the item and not fixed to the item itself.

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3.8 Document Control

All contractual communication between the Employer and Supplier shall be in written format accompanied by an official letterhead and signed by the authorised *Parties*.

All attached documentation shall be in the format of Microsoft Word/ Excel and/ or Power Point.

All contractual communication letterheads and attached documentation shall be electronically mailed as per PDF format.

3.9 Contractual Meetings

a) ADHOC Meetings can be scheduled and agreed upon.

3.10 Correspondence

All verbal and non-verbal communication between the Employer and Supplier shall be communicated in an electronic format which can be read or copied.

4. Authorisation

This document has been seen and accepted by:

Name	Designation
Silus Tisane	Senior Technician Electrical
Vonnie Vermaas	Senior Advisor Electrical Engineering
Putsisho Kapu	System Engineer
Wandile Mjuqu	System Engineer
Masala Mafora	Senior Planner Production Works Management
Gudani Raphalalani	System Engineer
Gwadamani Sehlako	Senior Supervisor Tech Electrical
Spha Mbhele	Senior System Engineer
Dumisani Makamu	Senior Advisor Procurement
Hope Kakunekwao	Engineer in Training
Hendrik van Zyl	Senior Supervisor Tech Electrical

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Frans Mokobodi	Senior Supervisor Tech Maintenance
Aaron Mabasa	Senior Supervisor Tech Maintenance
Adriaan Besseling	Electrical Maintenance Manager

5. Revisions

Date	Rev.	Compiler	Remarks
January 2025	0	Boleo Lesejane	First Draft
June 2025	0.1	Boleo Lesejane	Reviewed with comments
September 2025	1	Boleo Lesejane	Final document

6. Development Team

The following people were involved in the development of this document:

- Boleo Lesejane
- Silus Tisane
- Masala Mafora

7. Acknowledgements

N/A

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