

 Eskom	Specification	Medupi Power Station
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Title: **Medupi Power Station Supply and Delivery of Positioners and Switches used on C&I related equipment scope of work**

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1. Introduction

The reliability and availability of the Positioners and Switches used on C&I related equipment in general is a concern for us due to the unplanned downtime and regular planned outages at Medupi Power Station. It has contributed too many production risks on the plant and the return to service deadlines of Units after execution works of planned outages.

Initiatives to improve the reliability and availability of the Positioners and Switches used on C&I related equipment amongst others includes, placing a Positioners and Switches used on C&I related equipment supply and delivery contract to ensure continuous plant availability, sustainability and improvement.

This document describes the scope of work required for this contract.

2. Supporting Clauses

2.1 Scope

This document covers the requirements for the supply and delivery of the Positioners and Switches used on C&I related equipment at Medupi Power Station.

2.1.1 Purpose

The purpose of this document is to provide the SOW for the supply and delivery of the Positioners and Switches used on C&I related equipment contract at Medupi Power Station.

2.1.2 Applicability

This document shall apply to the material management for support to the C&I department at Medupi Power Station.

2.1.3 Effective date

The document will be effective from the date of authorisation.

2.2 Normative/Informative References

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

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2.2.1 Normative

- [1]. Eskom SHEQ Policy 32-727
- [2]. Life Saving-Rules – 240-62196227 Medupi Power Station - SHE File Evaluation Checklist – 24097661287
- [3]. ISO 9001 Quality Management Systems.
- [4]. 240 - 97020108 REV. 5 Medupi Maintenance Contracts User Requirement Specification (URS).

2.2.2 Informative

- [1]. Act No 85 Occupational Health and Safety Act & Regulations.
- [2]. 240-46554063: Safety Health Environmental and Quality Policy.

2.3 Definitions

Definition	Description
<i>Contractor</i>	Service provider contracted for the supply and delivery of C&I material with its associated fittings and consumables
<i>Employer</i>	Eskom or Eskom Medupi power station representative appointed in writing.
Task order	The <i>Employer's</i> instruction to be carried out as a task to supply and deliver requested items.

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2.4 Abbreviations

Abbreviation	Explanation
C&I	Control and Instrumentation.
NEC3	New Engineering Contract
OEM	Original Equipment Manufacturer
PD	Order On Request (As and When required)
QC	Quality Control
RF	Refurbishment of items
SHE	Safety Health and Environmental
SHEQ	Safety Health Environmental and Quality
SOW	Scope of Work
V1	Re-Order Point for Non-Repairable Material (Normal)
VB	Manual Re-Order Point Planning (RF)

2.5 Roles and Responsibilities

2.5.1 Employer

The *Employer* shall compile and submit scope of work with technical specifications for the Positioners and Switches used on C&I related equipment to be supplied and delivered to Medupi Power Station.

The *Employer* shall perform quality checks of all the Positioners and Switches used on C&I related equipment delivered to Medupi Power Station at the main store.

2.5.2 Contractor

The *Contractor* shall supply and deliver the Positioners and Switches used on C&I related equipment on an *as and when required basis* to Medupi Power station according to the specifications and technical requirements on this document.

The *Contractor* shall submit all relevant documentation for example manuals, calibration certificates, datasheets etc. as requested by the Employer.

2.6 Process of Monitoring

Not Applicable.

2.7 Related/Supporting Documents

Not Applicable.

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3. Scope of Work

This work specification is developed for the supply and delivery of the Positioners and Switches used on C&I related equipment at Medupi power station on an **as and when required basis**. This specification is intended to ensure that the appointed *Contractor* supply the correct Positioners and Switches used on C&I related equipment to Medupi power station.

3.1 Supply of Spares

The scope is as follow:

3.1.1 Description of Item:

Refer to Appendix A: List of Spares with material description

3.1.1.1 Performance Characteristics

The spares shall comply with the specific ratings, software versions etc.

3.1.1.2 Physical Characteristics

The spares shall be robust, reliable and comply with the specified dimensions, materials etc.

3.1.2 Contract Period:

The Contract period is for a duration of 3 Years (36 months). All spares should be available from the supplier for at least 3 years. Replacement spares for obsolete items shall be available from the supplier within 4 weeks of placing such an order and immediately for any spares that are critical.

3.1.3 Quantity of supply: See Appendix A

The estimated quantities the *Employer* anticipates will be required for the duration of this contract. This value will be used with other estimates to determine the overall contract value. It should be noted that this is just an estimate, and it does not mean that the *Employer* will definitely consume the Positioners and Switches used on C&I related equipment in the duration of the contract. These quantities are therefore not fixed, and the *Contractor* shall supply the Positioners and Switches used on C&I related equipment only when instructed by a task order, from the *Employer*.

It is the *Contractor's* responsibility to ensure that the correct spares are delivered. If incorrect spares are delivered, the spares will have to be replaced with the correct spares at the *Contractor's* cost which includes transport and delivery.

3.2 General Requirements

The Spares must be the same in all respects when compared to the original equipment, supplied to Eskom by the OEM under contract. This includes all aspects such as design, materials and material

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specifications, manufacturing, including manufacturing processes and acceptance testing. Where spares offered deviate from the original in any respect, it should be indicated to the *Employer*.

In the case of an obsolete spare, the *Employer* shall be informed and an OEM letter stating such obsolescence, and the predecessor shall be supplied to the Employer for approval prior to any delivery of the latest equipment version. The replacement of the obsolete item shall consider the integration and physical characteristics of the equipment and ensure that it is Form, Fit and Functional.

3.3 Packaging

The following packaging requirements should be adhered to:

- a) The Goods are to be packaged in such a manner that it can be transported and stored for an extended period of time without resulting in damage to the goods.
- b) This includes damage due to moisture ingress, corrosion, vibration from the power station etc.
- c) Where lifting gear is utilised to move the goods, the packaging should allow the lifting operation and ensure that the goods are not damaged in any way during the process.
- d) It will also not be necessary to open packaging for any lifting or transport operation.
- e) Where eye bolts are fitted to move the goods, these eye bolts should be fitted such a way that they can be easily removed and replaced with the Purchaser's eye bolts, ensuring that the packaging stays intact.
- f) The different spare types are to be packaged separately in such a way that each type can be stored separately.
- g) Packaging and labelling of spares should ensure that the spare can be identified without opening the packaging.
- h) Where possible the packaging should ensure that parts can be positively identified through the packaging. Where this is not possible the packaging should allow opening and closing of the packaging and still maintain the packaging integrity afterwards.
- i) Delivery packaging to have the following detail on it as a minimum (removable adhesive sticker if possible):
 - 1. Order number,
 - 2. A short description of component
 - 3. The Eskom stock and / or material number
 - 4. Manufacturing date, where possible
 - 5. Destination power station

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3.4 Quality Assurance

The spares and components shall be supplied to the “goods received” section of the Medupi main store where it will be received by the material management section. The spares shall be delivered with all the required Manuals and datasheets, where required. A delivery note shall be completed upon delivery, stating the date, quantity with the recipient’s details / signature.

Medupi Stores Working Times:

Monday – Thursdays: 07H00 – 16H00

Fridays: 07H00 – 12H00

The quality of manufacturing shall be according to a recognised quality management system such as ISO 9001. Only once the spares have passed the Quality control checks and are booked into the system can a payment be affected.

The Delivery and Transport Costs (including off-loading items) must be included in the quotation.

4. Acceptance

This document has been seen and accepted by:

Name	Designation
Lerato Sehume	C&I Maintenance Manager
Nare Senama	C&I Senior Technical Supervisor
Tumelo Chauke	C&I Senior Technical Supervisor
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Albert Malapile	C&I Chief Engineer

5. Revisions

Date	Rev.	Compiler	Remarks
June 2025	1	Thys Britz	First revision

6. Development Team

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

Name	Designation
Thys Britz	C&I Senior Technical Supervisor
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7. Acknowledgements

Not Applicable.

8. Appendix

8.1 Appendix A: List of Spares with material description

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Material	Material short description	Material full description	Lab Code	Material Type	Unit of Measure	Max	Required Quantity
115655	RELAY:VARIABLE PERCENTAGE DIFFERENTIAL	RELAY: TYPE: VARIABLE PERCENTAGE DIFFERENTIAL; COIL VOLTAGE: 220-230 VAC; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 500 VAC 4 A; ACTION: SPDT; TERMINAL: CAPTIVE SCREW; MOUNT: PANEL; ENCLOSURE RATING: PLASTIC; SUPPL P/N: KFA6-SR2-EX1.W.LB; AMPLIFIER SWITCH F KEI-1	C&I	PD	EA	10	20
120511	SWITCH LMT:240 V;3 A;SNAP;2NC 2NO;IP66	SWITCH, LIMIT: POTENTIAL: 240 V; CURRENT: 3 A; ACTION: SNAP; ACTUATOR: METAL END PLUNGER; CONTACT ARRANGEMENT: 2NC 2NO; ENCLOSURE: IP66; CLASSIFICATION: EN/IEC 60947-5-1; MANUF P/N: XCK M ZCK D10	COA	V1	EA	5	10
120658	SWITCH LMT:600 V;SPDT;ROLLER LEVER;CI	SWITCH, LIMIT: POTENTIAL: 600 V; ACTION: SPDT; ACTUATOR: ROLLER LEVER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE RATING: CI; SUPPL P/N: CHW93053	C&I	V1	EA	2	4

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121449	SWITCH LMT:600 V;(2) SPST;2NO;AL	SWITCH, LIMIT: POTENTIAL: 600 V; ACTION: (2) SPST; ACTUATOR: DOUBLE WIRE LEVER; CONTACT ARRANGEMENT: 2NO; ENCLOSURE RATING: ALUMINIUM; SUPPL P/N: CHW53197; CUTLER- HAMMER ONLY; FOR USE ON CONVEYORS	MAP	V1	EA	2	4
235835	LEVER SWCH:DIA 55 X LG 88 MM;PLASTIC/STL	LEVER, SWITCH: SIZE: DIA 55 X LG 88 MM; MATERIAL: PLASTIC/STL; SUPPL P/N: 8ZX1012-0UC60-1AA1; HANDLE FOR 3VL1-3 DC SWITCHGEAR; TO BE SUPPLIED WITH MASKING PLATE; USED ON GAS 1; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	C&I	V1	EA	20	40
236980	SWITCH LMT:240 V;3 A;SP;LEVER;1NO;IP65	SWITCH, LIMIT: POTENTIAL: 240 V; CURRENT: 3 A; ACTION: SP; ACTUATOR: LEVER; CONTACT ARRANGEMENT: 1NO; ENCLOSURE: IP65; ENCLOSURE RATING: DUST/WATERPROOF; SUPPL P/N: XCKJ10513H29	C&I	V1	EA	5	10

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245625	RELAY CTRL:24 VDC;AU	RELAY, CONTROL: COIL VOLTAGE: 24 VDC; CONTACT MATERIAL: AU; MANUF P/N: 2961121	C&I	V1	EA	10	20
501507	SWITCH LMT	SWITCH, LIMIT: TYPE INDUCTIVE: FOR USE ON WELLAND AND TUXHORN HYDRAULIC CYLINDER GZ 180 FOR WATER VESSEL DISCHARGE VALVE: KKS HAG62CG301/302/303/304; P/N: NJ8-18GM50-A2	BBG	V1	EA	96	192
502959	SWITCH LVL:MAGNETIC FLOAT;30 V;5 A;SCREW	SWITCH, LEVEL: METHOD OF ACTUATION: MAGNETIC FLOAT; POTENTIAL: 30 V; CURRENT: 5 A; APPLICATION: STP BALANCING TANK; ELECTRICAL CONNECTION: SCREW; CABLE LENGTH: 6 M; SPECIFICATION: ENM10; 200000 OPERATIONS AT RATED INTERRUPTIONS; ITT FLYGT; KKS: GRK51CL301; GRK52CL302; GQA10CL301-3; GQA80CL301-3	STP	V1	EA	2	4
527483	PUSH BUTTON:EMERGENCY STOP	PUSH BUTTON: TYPE: EMERGENCY STOP; BUTTON COLOUR RED; CASING COLOUR BLUE; FOR USE ON SEWAGE PLANT; KKS 00GQB10AP001/2-S01; TELEMECANIQUE	STP	V1	EA	5	10

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554628	SWITCH PRESS:ELECTRONIC; 0-100 BAR;24 V	SWITCH, PRESSURE: TYPE: ELECTRONIC; RANGE: 0-100 BAR; POTENTIAL: 24 V; CURRENT: 4-20 MA; ACTION: SP; CONNECTION: THD 1/4 IN; CONTACT RATING: 2 A; POWER: 50W; 400VA; DIMENSIONS: DIA 74.5 X WD 126 X HT 96 MM; APPLICATION: SAFETY VALVE SYSTEM; ENCLOSURE RATING: IP65; ALUMINIUM; REFERENCE NO: 000101003279; EDS1691-T-C-100-000; ANALOGUE OUTPUT; 200% OVERLOAD CAPACITY; 4 X ADJUSTABLE CRITICAL SWITCHING CONTACTS; TUV CERTIFICATION STATUARY CERTIFICATION IS ESSENTIAL FOR THESE BOILER SAFETY SYSTEMS (OEM) CCI	C&I	V1	EA	20	40
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554631	SWITCH PRESS:ELECTRONIC; 0-400 BAR;24 V	SWITCH, PRESSURE: TYPE: ELECTRONIC; RANGE: 0-400 BAR; POTENTIAL: 24 V; ACTION: SPST; CONNECTION: THD 1/4 IN; CONTACT RATING: 2 A; POWER: 400 VA; DIMENSIONS: DIA 74.5 X WD 126 X HT 96 MM; APPLICATION: SAFETY VALVE SYSTEM; ENCLOSURE RATING: IP65; ALUMINIUM; REFERENCE NO: 000101003857; EDS 1691T-C-400-D00; CALIBRATED FOR 400BAR; 4 X ADJUSTABLE CRITICAL SWITCHING CONTACTS; ANALOGUE OUTPUT 200% OVERLOAD CAPACITY; TUV CERTIFICATION STATUARY CERTIFICATION IS ESSENTIAL FOR THESE BOILER SAFETY SYSTEMS (OEM) CCI	C&I	V1	EA	20	40
557334	BASE RLY	BASE, RELAY: MANUF P/N: 94.04; 55.34	SWG	V1	EA	20	40

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574028	SENSOR:BI-DIRECTIONAL SPEED PICK-UP;0-15	SENSOR: TYPE: BI-DIRECTIONAL SPEED PICK-UP; RANGE: 0-15 KHZ; RATING: 24 V DC; ELECTRICAL CONNECTION: AMP NR. 282 192-2; MOUNT: RETAINING BRACKET M6; DIMENSIONS: 45 MM; CABLE LENGTH: 500 MM; PROBE DIAMETER: 12 MM; SCALE: 0-5 M/S; MANUF P/N: CEH-10/24; TWO CHANNEL; FOR USE ON SSC HYDRAULIC DRIVE FOR SPEED DETECTION	C&I	V1	EA	5	10
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574043	SWITCH PRXMY:MAGNETIC;2.5 MM;24 VDC;3 A	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 2.5 MM; POTENTIAL: 24 VDC; CURRENT: 3 A; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 24VDC 3A; DIMENSIONS: DIA 16 X LG 70 MM; APPLICATION: IDLER WHEEL ROTATION; MANUF P/N: 74-13528-B3; CONTACT MATERIAL: DALLADIUM SILVER WITH SAWTOOTH SURFACE; EPOXY FILLED; RESPONSE TIME: LESS THEN 8MS; OPERATING TEMP: -40 DEG CEL TO 105 DEG CEL; HOUSING MATERIAL: 303 SS; CABLE LENGHT: 1.8M; 48MM OF THE COMPLETE LENGHT MUST BE THREADED; SENSING RANGE CAN BE 9MM WITH TARGET MAGNET; TO BE SUPPLIED WITH TARGET MAGNET AMP3 - 21MMX13.65MM; ALL TENDERS/QUOTES TO BE ACCOMPANIED BY APPLICABLE DATA SHEETS AND/OR DRAWINGS OF ITEM(S) TENDERED ON; TENDERS WITHOUT DATA SHEETS AND/OR DRAWINGS WILL BE REJECTED	BAR	V1	EA	5	10
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574450	SWITCH LMT:250 VAC;10 A;SPDT;1NO;RESIN	SWITCH, LIMIT: POTENTIAL: 250 VAC; CURRENT: 10 A; ACTION: SPDT; ACTUATOR: ES-00619-1R3; CONTACT ARRANGEMENT: 1NO; ENCLOSURE: RESIN; POWER: 250 VAC; DIMENSIONS: 146X100X96 MM; APPLICATION: BUTTERFLY VALVE WITH GEARBOX; ENCLOSURE RATING: IP66; CLASSIFICATION: NON-HAZARDOUS AREA; MANUF P/N: TVA-M2WYNM; DRAWING NO: 0.84/12810 REV 0; CONDUIT ENTRIES: 2 X M20; TEMP RATING: -40 TO 80 DEG CEL; BUS SENSOR: 2 MECH; VISUAL DISPLAY: 90 DEG YELLOW OPEN/BLACK CLOSED; O-RING MATERIAL: RUNA/EPBM	WAT	V1	EA	2	4
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576677	SWITCH PRESS:DIFFERENTIAL ;35-1.7 BAR;24	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 35-1.7 BAR; POTENTIAL: 24 VDC; CURRENT: 5 A; ACTION: SPST; CONNECTION: G1/2 IN; CONTACT ARRANGEMENT: 1NO 1NC; APPLICATION: IKRON SPIN ON FILTER; ENCLOSURE RATING: IP65; VISUAL INDICATOR; USED ON HYDRAULIC DRIVE CHARGE/BOOSTER CIRCUIT FOR BLOCKED FILTER DETECTION	BAR	V1	EA	5	10
576679	SWITCH PRESS:DIFFERENTIAL ;8-1.7 BAR;24;5	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 8-1.7 BAR; POTENTIAL: 24 VDC; CURRENT: 5 A; ACTION: SPST; CONNECTION: G1/2 IN-BSPP; CONTACT ARRANGEMENT: 1NO 1NC; APPLICATION: IKRON TANK MOUNTED FILTER; ENCLOSURE RATING: IP65; VISUAL INDICATOR; USED ON HYDRAULIC DRIVE COOLING CIRCUIT FOR BLOCKED FILTER DETECTION	BAR	V1	EA	5	10

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576681	PROBE TEST:200X25X470 MM;1;FLUX PROBE	PROBE, TEST: CONNECTION: EX-13-3-16- 321PN(50.80X193.7) MM; DIMENSIONS: 200X25X470 MM; QUANTITY PER SET: 1; APPLICATION: FLUX PROBE; MANUF P/N: WT2-690011	EXC	V1	EA	1	2
576683	ACCELEROMETER:VIB RATION SENSOR	ACCELEROMETER: TYPE: VIBRATION SENSOR; SCALE: 2MM PK-PK@100HZ; FREQUENCY: 10- 1000HZ(-3DB); MANUF P/N: FOA-200; RADIAL AND TANGENTIAL; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	EXC	V1	EA	4	8
576694	SWITCH DSCNNCT:LOADBREA K;600 V;25 A;3P	SWITCH, DISCONNECT: TYPE: LOADBREAK; POTENTIAL: 600 V; CURRENT: 25 A; ACTION: 3P; MANUF P/N: OT25E3	C&I	V1	EA	4	8

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576729	SWITCH LMT:230 V;6 A;(2) SPST;1NO 1NC	SWITCH, LIMIT: POTENTIAL: 230 V; CURRENT: 6 A; ACTION: (2) SPST; ACTUATOR: MICRO SWITCH; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP20; CONTACT RATING: 6 A; APPLICATION: PANEL LIGHT LIMIT SWITCH; ENCLOSURE RATING: IP40; MANUF P/N: SZ4315.310; WITH 1M LONG ORANGE CONNECTOR CABLE	EXC	V1	EA	5	10
579205	SWITCH LMT:250 V;6A AC; 0.25A DC;PLUNGER	SWITCH, LIMIT: POTENTIAL: 250 V; CURRENT: 6A AC; 0.25A DC; ACTION: PLUNGER; ACTUATOR: MEMBRANE PLUNGER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP67; DIMENSIONS: 49 X 40 X 16MM; APPLICATION: HPU SUCTION VALVE; CLASSIFICATION: ZONE 1 AND 2; MANUF P/N: 07-2961-1362/02	COA	V1	EA	2	4

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579211	SWITCH LVL:VIBRATING TUNING FORK CONTACT	SWITCH, LEVEL: METHOD OF ACTUATION: VIBRATING TUNING FORK CONTACT; RANGE: -50 - +70 DEG C; -1 - 25 BAR; POTENTIAL: 19-253 VAC; CURRENT: 350 MA; ACTION: 2/2 WAY; CONTACT ARRANGEMENT: TUNING FORK; APPLICATION: HOPPER DUST LEVEL; ELECTRICAL CONNECTION: 2 WIRE AC; CABLE LENGTH: 4 M; SPECIFICATION: VV- DN-25-8/6; MANUF P/N: MFTM51-A-GG-2-L900-5-A-5-2- A-F	C&I	V1	EA	15	30
580233	PICK UP:DISPLACEMENT;V ORECON	PICK UP: TYPE: DISPLACEMENT; APPLICATION: VEHS TORQUE CONVERTER; MANUF P/N: 0112/0010; 20600735710; 20600828510; BTL5-E17-M0220-B-KA05; MODEL NO: VORECON	FWS	V1	EA	1	2
580240	REGULATOR VOLTG:180 VDC;6 A;3	REGULATOR, VOLTAGE: POTENTIAL: 180 VDC; CURRENT: 6 A; PHASE: 3; MANUF P/N: E000-13300; REFERENCE NO: MA330	DEG	V1	EA	1	2

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581484	SWITCH LMT:600 V;10 A;SP;1NO 1NC;NEMA 7	SWITCH, LIMIT: POTENTIAL: 600 V; CURRENT: 10 A; ACTION: SP; ACTUATOR: ROTARY SPRING RETURN; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: NEMA 7; DIMENSIONS: 136X76X66 MM; APPLICATION: MOVABLE HEAD; ENCLOSURE RATING: NEMA 7; MANUF P/N: 10316H1002; WITH ACTUATOR ARM	COA	V1	EA	2	4
581487	SWITCH LMT:500 V;10 A;DPST;1NO 1NC;IP66	SWITCH, LIMIT: POTENTIAL: 500 V; CURRENT: 10 A; ACTION: DPST; ACTUATOR: SPRING RETURN CAT'S WHISKERS; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP66; CONTACT RATING: 240 V 3 A; DIMENSIONS: 65X31X30 MM; APPLICATION: CONVEYOR TAKE UP; ENCLOSURE RATING: PLASTIC; MANUF P/N: XCKP2106P16	COA	V1	EA	2	4
581507	SENSOR CNDCTVY:2 ELECTRODE;0.01;30.5 M	SENSOR, CONDUCTIVITY: TYPE: 2 ELECTRODE; CELL CONSTANT: 0.01; CABLE LENGTH: 30.5 M; MATERIAL: 316 SS; CONNECTION: NPT 1-1/4 IN; MOUNT: HOT TAP; MANUF P/N: TB27	CTS	V1	EA	5	10

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581697	SWITCH LMT:230 V;0.5 A;3P + PE;FLOTATION	SWITCH, LIMIT: POTENTIAL: 230 V; CURRENT: 0.5 A; ACTION: 3P + PE; ACTUATOR: FLOTATION; CONTACT ARRANGEMENT: 1NO; ENCLOSURE: IP65; POWER: 10 VA; APPLICATION: GEARBOX; ENCLOSURE RATING: IP65; CLASSIFICATION: NON-HAZARDOUS; SPECIFICATION: DIN43650; MANUF P/N: M-1-MS-M3-TMS-100; SWITCH TUBE AND FLANGE MATERIAL: BRASS; FLOAT MATERIAL: NBR	ACC	V1	EA	60	120
581699	SWITCH PRESS:OIL;0.3-1.5 BAR;24 VDC;4 A	SWITCH, PRESSURE: TYPE: OIL; RANGE: 0.3-1.5 BAR; POTENTIAL: 24 VDC; CURRENT: 4 A; ACTION: 3P + PE; CONNECTION: PG9; CONTACT ARRANGEMENT: NO; APPLICATION: GEARBOX; CLASSIFICATION: NON-HAZARDOUS; ENCLOSURE RATING: IP65; SPECIFICATION: DIN EN 60947-5-1; MANUF P/N: 0184.457.033.003; TYPE: MEMBRANE; HOUSING MATERIAL: GALVALNISED STEEL; CONTACTS MATERIAL: SILVER	ACC	V1	EA	60	120

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583425	SENSOR TEMP:0-100 DEG C;MEASURING INSECT	SENSOR, TEMPERATURE: MAXIMUM OPERATING TEMP: 0-100 DEG C; STYLE DESIGNATOR: MEASURING INSECT; MANUF P/N: 121; EXTENSION TUBE WITH THERMOWELL INTERFACE; CONNECTION HEAD; TRANSMITTER; OPTIONAL LCD INDICATOR; WELDED PROTECTIVE FITTING MANUFACTURED FROM PIPE MATERIAL	AHW	V1	EA	2	4
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583427	SWITCH PRXMY:INDUCTIVE;2.5 MM;10-30 VDC	SWITCH, PROXIMITY: TYPE: INDUCTIVE; SENSING RANGE: 2.5 MM; POTENTIAL: 10-30 VDC; CURRENT: 200 MA; ACTION: PNP; CONTACT ARRANGEMENT: MAGNETIC SOLID STATE; MANUF P/N: QM/132/2; SPECIFICATION:MODEL QM/132/2 WITH 2M CABLE; CABLE TYPE PVC 3 X 0,5MM; RATING: IP66; OPERATING TEMPERATURE: -20 DEGC +80 DEGC; APPLICATION: FOR USE WITH PNEUMATIC CYLINDER MECHANICALLY OPERATED SWITCHES; ENCLOSURE: PLASTIC; POWER: 6 W; ENCLOSURE RATING: IP66; CLASSIFICATION: WD15 X LG35 X HT20 MM; SPECIFICATION: DIN 40050; INDUCTIVE PROXIMITY SWITCH FOR USE WITH PNEUMATIC CYLINDER; TYPE QM/132; LIMIT SWITCH ACTUATOR SEAL GAP ADJUSTING; BODY MATERIAL PLASTIC; OPERATION; PNP OPEN COLLECTOR OUTPUT WITH LED (YELLOW); PROTECTION RATING: IP66 (DIN 40050)	C&I	V1	EA	12	24
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583428	SWITCH PRXMY:INDUCTIVE;5 MM;10-30 V;NPN	SWITCH, PROXIMITY: TYPE: INDUCTIVE; SENSING RANGE: 5 MM; POTENTIAL: 10-30 V; CURRENT: 0-200 MA; ACTION: NPN; CONTACT ARRANGEMENT: MAGNETIC; MANUF P/N: NBB5-18GM60-A0	C&I	V1	EA	6	12
583431	SWITCH LMT:120VAC/2VDC;4A AC; 3A DC;SPDT	SWITCH, LIMIT: POTENTIAL: 120VAC/2VDC; CURRENT: 4A AC; 3A DC; ACTION: SPDT; ACTUATOR: COIL; CONTACT ARRANGEMENT: SPDT; ENCLOSURE: SS GR 303; MANUF P/N: GO74-13528-B2	C&I	V1	EA	1	2
583433	FILTER AIR:REGULATOR;243X 118X68 MM;40	FILTER, AIR: TYPE: REGULATOR; DIMENSIONS: 243X118X68 MM; MATERIAL: SINTERED POLYPROPYLENE; PRESSURE RANGE: 0,3~10 BAR; MICRON: 40; MANUF P/N: 4424-50; B73G-3GK-AD3- RMN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	AHW	V1	EA	10	20

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583439	ENCODER MOTOR:RADIAL;68 X 88 X 80 MM;150	ENCODER, MOTOR: TYPE: RADIAL; SIZE: 68 X 88 X 80 MM; POTENTIAL: 9-36 VDC; SHAFT: 12 MM; MOUNT: BRACKET; CURRENT: 150 MA; MANUF P/N: RHA608; HOLLOW SHAFT; PROFIBUS OUTPUT INTERFACE (MS-485) 25 BIT TOTAL RESOLUTION, ACCURACY +/- 1L513	COA	V1	EA	2	4
583440	SWITCH PRXMY:INDUCTIVE;20 MM;20-250 V	SWITCH, PROXIMITY: TYPE: INDUCTIVE; SENSING RANGE: 20 MM; POTENTIAL: 20-250 V; CURRENT: 400 MA; ACTION: PROGRAMMABLE; CONTACT ARRANGEMENT: PROGRAMMABLE; DIMENSIONS: SQ40 X 114 MM; CONNECTION: SCREW TERMINAL; APPLICATION: STACKER AND RECLAIMER; MANUF P/N: LS1-Q40P-F20-CA	COA	V1	EA	8	16

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583442	SWITCH LMT:240 V;3 A;4P;2NO 2NC;IP54	SWITCH, LIMIT: POTENTIAL: 240 V; CURRENT: 3 A; ACTION: 4P; ACTUATOR: ROTARY WITH SPRING AND METAL ROD; CONTACT ARRANGEMENT: 2NO 2NC; ENCLOSURE: IP54; DIMENSIONS: SQ85 X 75 MM; APPLICATION: TERRACE CONVEYOR TAKE-UP SYSTEM; ENCLOSURE RATING: IP54; MANUF P/N: XCRF17	COA	V1	EA	4	8
583443	SWITCH LMT:240 V;3 A;SPDT;1NO 1NC;IP66	SWITCH, LIMIT: POTENTIAL: 240 V; CURRENT: 3 A; ACTION: SPDT; ACTUATOR: ROTARY ACTIONED LEVER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP66; DIMENSIONS: SQ40 X 80 MM; APPLICATION: TERRACE CONVEYORS MOVING HEAD; ENCLOSURE RATING: ZINC ALLOY; MANUF P/N: XCK-J-H29; ALL TENDERS/QUOTES TO BE ACCOMPANIED BY APPLICABLE DATA SHEETS AND/OR DRAWINGS OF ITEM(S) TENDERED ON; TENDERS WITHOUT DATA SHEETS AND/OR DRAWINGS WILL BE REJECTED	C&I	V1	EA	40	80

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584999	SWITCH LMT:6 A;SPDT;PIN PLUNGER;1NO 1NC	SWITCH, LIMIT: CURRENT: 6 A; ACTION: SPDT; ACTUATOR: PIN PLUNGER; CONTACT ARRANGEMENT: 1NO 1NC; MANUF P/N: SZ4127.000	EXC	V1	EA	4	8
585009	SWITCH LMT:8.2 VDC;1-3 MA;SPST;1NC;PBT	SWITCH, LIMIT: POTENTIAL: 8.2 VDC; CURRENT: 1-3 MA; ACTION: SPST; ACTUATOR: INDUCTIVE SENSOR; CONTACT ARRANGEMENT: 1NC; ENCLOSURE: PBT; DIMENSIONS: 20 X 25 X 32.5 MM; APPLICATION: FLOW METER; ENCLOSURE RATING: IP67; MANUF P/N: RC10-14-N3	CTS	V1	EA	2	4
585010	SWITCH LMT:8.2 VDC;1.2-2.1 MA;SPST;1NO	SWITCH, LIMIT: POTENTIAL: 8.2 VDC; CURRENT: 1.2- 2.1 MA; ACTION: SPST; ACTUATOR: MAGNETIC FIELD; CONTACT ARRANGEMENT: 1NO; DIMENSIONS: 23 X 14 X 16 MM; ENCLOSURE RATING: IP67; MANUF P/N: BIM-PST-Y1X	EXC	PD	EA	10	20

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607441	SWITCH FLW:AL CAST;250 VAC;8 A;0.003-1.5	SWITCH, FLOW: MATERIAL: AL CAST; POTENTIAL: 250 VAC; CURRENT: 8 A; RANGE: 0.003-1.5 MS; ACTION: DPDT; CONNECTION: 1 IN-BSPP; ENCLOSURE: IP66; CONTACT RATING: 250 VAC 8 A; POWER: 240 VAC; ENCLOSURE RATING: IP66; PIPE CONNECTION: 80 MM; CLASSIFICATION: NON HAZARDOUS; SUPPL P/N: TD2-7D01-031/XTMA-A220- 008; PROBE LENGTH: 8MM	LPS	V1	EA	2	4
607442	SWITCH FLW:AL CAST;250 VAC;8 A;0.003-1.5	SWITCH, FLOW: MATERIAL: AL CAST; POTENTIAL: 250 VAC; CURRENT: 8 A; RANGE: 0.003-1.5 MS; ACTION: DPDT; CONNECTION: BSP 1 IN; ENCLOSURE: IP66; CONTACT RATING: 250 VAC 8 A; POWER: 240 VAC; ENCLOSURE RATING: IP66; PIPE CONNECTION: 200 MM; CLASSIFICATION: NON HAZARDOUS; MANUF P/N: TD2-7-D01-031/XTMA-A220- 007; SENSING ELEMENT MATERIAL: 1.4404; PROBE LENGTH: 70MM	C&I	V1	EA	2	4

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607443	SWITCH FLW:AL CAST;250 VAC;8 A;0.003-1.5	SWITCH, FLOW: MATERIAL: AL CAST; POTENTIAL: 250 VAC; CURRENT: 8 A; RANGE: 0.003-1.5 MS; ACTION: DPDT; CONNECTION: BSP 1 IN; ENCLOSURE: IP66; CONTACT RATING: 250 VAC 8 A; POWER: 240 VAC; ENCLOSURE RATING: IP66; PIPE CONNECTION: 100 MM; CLASSIFICATION: NON HAZARDOUS; MANUF P/N: TD2-7-D01-031/XTMA-A220- 005; SENSING ELEMENT MATERIAL: 1.4404; PROBE LENGTH: 50MM	C&I	V1	EA	2	4
607810	SENSOR:CLIMB DETECTION;80 M;CDSSENSOR	SENSOR: TYPE: CLIMB DETECTION; RANGE: 80 M; RATING: 8-26 VDC 20 MA AT 24 VDC; ELECTRICAL CONNECTION: FIBER OPTICAL CABLE; REFERENCE NO: CDSSENSOR	EFC	V1	EA	10	20

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608223	SWITCH FLW:TD2-7-D01-031/XTMA-A220-012;8	SWITCH, FLOW: MATERIAL: AL CAST; POTENTIAL: 250 VAC; CURRENT: 8 A; RANGE: 0.003-1.5 MS; ACTION: DPDT; CONNECTION: BSP 1 IN; ENCLOSURE: IP66; CONTACT RATING: 250 VAC 8 A; POWER: 240 VAC; PIPE CONNECTION: 250 MM; CLASSIFICATION: NON HAZARDOUS; OEM P/N: TD2-7-D01-031/XTMA-A220-012; PROBE LENGTH: 120MM	C&I	V1	EA	2	4
608226	SWITCH FLW:TD2-7-D01-031/XTMA-A220-010;8	SWITCH, FLOW: MATERIAL: AL CAST; POTENTIAL: 250 VAC; CURRENT: 8 A; RANGE: 0.003-1.5 MS; ACTION: DPDT; CONNECTION: BSP 1 IN; ENCLOSURE: IP66; CONTACT RATING: 250 VAC 8 A; POWER: 240 VAC; PIPE CONNECTION: 200 MM; CLASSIFICATION: NON HAZARDOUS; OEM P/N: TD2-7-D01-031/XTMA-A220-010; SENSING ELEMENT MATERIAL: 1.4404; PROBE LENGTH: 100MM	C&I	V1	EA	8	16

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608227	SWITCH FLW:TD2-7-D01-031/TMA-A220-010;8	SWITCH, FLOW: MATERIAL: AL CAST; POTENTIAL: 250 VAC; CURRENT: 8 A; RANGE: 0.003-1.5 MS; ACTION: DPDT; CONNECTION: BSP 1 IN; ENCLOSURE: IP66; CONTACT RATING: 250 VAC 8 A; POWER: 240 VAC; PIPE CONNECTION: 200 MM; CLASSIFICATION: NON HAZARDOUS; OEM P/N: TD2-7-D01-031/TMA-A220-010; PROBE LENGTH: 100MM	LPS	V1	EA	8	16
609480	SWITCH PRESS:AIR;0-8 BAR;10-30 VDC;2.5 A	SWITCH, PRESSURE: TYPE: AIR; RANGE: 0-8 BAR; POTENTIAL: 10-30 VDC; CURRENT: 2.5 A; ACTION: SP; CONNECTION: 5 MM; CONTACT ARRANGEMENT: 1NC; APPLICATION: DOME VALVE; CLASSIFICATION: NON HAZARDOUS; ENCLOSURE RATING: IP65; SUPPL P/N: PEV-W-S-LED-GH; MOUNT: RAIL	C&I	V1	EA	30	60

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609481	SWITCH LVL:VIBRATION FORK;-1 TO 25 BAR	SWITCH, LEVEL: METHOD OF ACTUATION: VIBRATION FORK; RANGE: -1 TO 25 BAR; POTENTIAL: 11-36 VDC; CURRENT: 8-16 MA; ACTION: SPDT; CONTACT ARRANGEMENT: 1NC; APPLICATION: ASH CONVEYING VESSEL; ENCLOSURE RATING: IP67; CLASSIFICATION: NON HAZARDOUS; SUPPL P/N: FTM50-AGG2A5A32SA1	DST	V1	EA	20	40
611050	SENSOR VBRTN:10 HZ TO 1 KHZ +/-5 PCT	SENSOR, VIBRATION: FREQUENCY RESPONSE: 10 HZ TO 1 KHZ +/-5 PCT; OPERATING TEMPERATURE: - 25 TO 90 DEG C; OUTPUT: 4-20 MA; POTENTIAL: 15-30 VDC; ENCLOSURE: IP65; SUPPL P/N: HS-420; APPLICATION: COOLING TOWER FAN GEARBOX; VELOCITY RANGES: 0-10 TO 0-100MM/S RMS +/- 10PCT; INCLUDE STANDARD BRAIDED CABLE LENGTH; CABLE MATERIAL: ARMoured ETFE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	ACS	V1	EA	1	2

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612815	SWITCH PRESS:SENSOR;0.27- 0.55 BAR;250;NO	SWITCH, PRESSURE: TYPE: SENSOR; RANGE: 0.27- 0.55 BAR; POTENTIAL: 250 VAC; CURRENT: 10.1 A; ACTION: SPDT; CONNECTION: 1/2 IN-NPT; CONTACT ARRANGEMENT: NO; MODEL NO: PS10-1	FIW	V1	EA	4	8
614699	SWITCH LMT:125/250 V;0.1-20 A;SPDT;LEVER	SWITCH, LIMIT: POTENTIAL: 125/250 V; CURRENT: 0.1-20 A; ACTION: SPDT; ACTUATOR: LEVER; CONTACT ARRANGEMENT: 1P; ENCLOSURE: POLYAMIDE/POLYESTER; DIMENSIONS: WD 10.3 X LG 27.8 X HT 15.8 MM; APPLICATION: KINETROL VANE ACTUATOR; SPECIFICATION: MICRO SWITCH	DST	V1	EA	30	60

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616253	SWITCH LVL:FLOAT;10-90 DEG C;230 VAC;1 A	SWITCH, LEVEL: METHOD OF ACTUATION: FLOAT; RANGE: 10-90 DEG C; POTENTIAL: 230 VAC; CURRENT: 1 A; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; APPLICATION: COOLING TOWER GEARBOX OIL LEVEL; ENCLOSURE RATING: IP65; SUPPL P/N: 600.003.50; CABLE GLAND: PG9; CONNECTION BOX DIMENSIONS: WD 50 X HT 45 X DP 35; PROCESS CONNECTION: G 3/8IN FEMALE; HOUSING MATERIAL: ALUMINIUM; FLOAT: STAINLESS STEEL; TUBE: BRASS	ACS	V1	EA	1	2
616566	RELAY SLD STATE:DIGITAL MONITORING;5 A;5	RELAY, SOLID STATE: TYPE: DIGITAL MONITORING; COIL VOLTAGE: 160-690 VAC; CONTACT RATING: 5 A; POTENTIAL: 220 VAC; CURRENT: 5 A; CONTACT ARRANGEMENT: 2NC; ACTION: SPDT; MOUNT: SNAP ON; SUPPL P/N: 3UG4633-1AL30	C&I	V1	EA	2	4

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616567	RELAY:SIRIUS SAFETY;0.85-1.1 VAC;3NO 1NC	RELAY: TYPE: SIRIUS SAFETY; COIL VOLTAGE: 0.85- 1.1 VAC; CONTACT ARRANGEMENT: 3NO 1NC; CONTACT RATING: 5 A; ACTION: SPDT; TERMINAL: SCREW ON; MOUNT: PUSH ON; ENCLOSURE RATING: IP20; SPECIFICATION: IEC 60947-5-1; IEC 61000; SUPPL P/N: 3SK1111-1AB30	C&I	V1	EA	2	4
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616571	FILTER AIR:COMPRESSED;BR S;40	FILTER, AIR: TYPE: COMPRESSED; DIMENSIONS: DIA 106 MM X LG 1.5 M; MATERIAL: BRASS; MICRON: 40; SUPPL P/N: VFR-43M; DRAWING NO: B114116-13-02- IB01-00008/9-RE-AG REV 0; MODEL NO: 200-81891; PROOF REQUIRED THAT REGULATOR HAS BEEN DESIGNED AS PER DIN EN 292; SAFETY MACHINERY; DEVICES AND SYSTEMS MANUFACTURERS DECLARATION AS DEFINED BY EC DIRECTIVE 98/37/ECC (89/392/EEC) ON MACHINERY APPENDIX II B ON MACHINERY TO BE FITTED; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	C&I	V1	EA	2	4
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618116	SWITCH LMT:230 VAC;6 A;SPST;1NO 1NC;IP66	SWITCH, LIMIT: POTENTIAL: 230 VAC; CURRENT: 6 A; ACTION: SPST; ACTUATOR: FLEXIBLE SPRING; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP66; APPLICATION: WINCH BRAKE; SUPPL P/N: E100- 00-LI; ALL TENDERS/QUOTES TO BE ACCOMPANIED BY APPLICABLE DATA SHEETS AND/OR DRAWINGS OF ITEM(S) TENDERED ON; TENDERS WITHOUT DATA SHEETS AND/OR DRAWINGS WILL BE REJECTED	MAP	V1	EA	2	4
618117	SWITCH LMT:250 VAC;2.5 A;DPDT;1NO 1NC	SWITCH, LIMIT: POTENTIAL: 250 VAC; CURRENT: 2.5 A; ACTION: DPDT; ACTUATOR: SIDE ROLLER PLUNGER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP65; DIMENSIONS: WD 76 X LG 104 X HT 40 MM; APPLICATION: CONVEYOR BRAKE; SUPPL P/N: M3R330-11Y-M20	MAP	V1	EA	2	4

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618118	SWITCH LMT:240 VAC;30 A;SPST;1NO 1NC	SWITCH, LIMIT: POTENTIAL: 240 VAC; CURRENT: 30 A; ACTION: SPST; ACTUATOR: SIDE ROTARY METAL LEVER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP67; POWER: MAKE 7200; BREAK 720 VA; DIMENSIONS: WD 57 X LG 107 X HT 39 MM; APPLICATION: ASH STACKERS TRIPPER CARS/COAL STOCKYARD CONVEYOR MOVING HEADS; ENCLOSURE RATING: IP67; CLASSIFICATION: NEMA 1, 3, 3S, 4, 4X, 6, 6P, 13; REFERENCE NO: E50SA+E50RA20+E50KL355; CLUTLER HAMMER; E50DR1 SPRING RETURN WITH 30MM ROLLER	COA	V1	EA	40	80
703094	SWITCH PRESS:ELECTRONIC; 0-250 BAR;9.6-32	SWITCH, PRESSURE: TYPE: ELECTRONIC; RANGE: 0- 250 BAR; POTENTIAL: 9.6-32 VDC; CURRENT: 25 MA; ACTION: DPST; CONNECTION: M12; CONTACT ARRANGEMENT: 1NO 1NC; APPLICATION: HYDRAULIC SKID; ENCLOSURE RATING: IP67; SUPPL P/N: DG62R	C&I	V1	EA	6	12

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618119	SWITCH PRESS:BLOCKED FILTER DIFFERENTIAL	SWITCH, PRESSURE: TYPE: BLOCKED FILTER DIFFERENTIAL; RANGE: 0-2 BAR; POTENTIAL: 24 VAC; CURRENT: 3 A; ACTION: SPST; CONNECTION: G1/2; CONTACT ARRANGEMENT: 1NO 1NC; POWER: 100 VA; DIMENSIONS: WD 28 X LG 110 X HT 48 MM; APPLICATION: CRAWLER RETURN LINE; ENCLOSURE RATING: IP65; SUPPL P/N: VM2D.0/-L24	MAP	V1	EA	1	2
618121	SWITCH PRESS:BLOCKED FILTER DIFFERENTIAL	SWITCH, PRESSURE: TYPE: BLOCKED FILTER DIFFERENTIAL; RANGE: 0-2 BAR; POTENTIAL: 24 VAC; CURRENT: 6 A; ACTION: SPST; CONNECTION: G1/2; CONTACT ARRANGEMENT: 1NO 1NC; POWER: 300 VA; DIMENSIONS: WD 28 X LG 108 X HT 48 MM; APPLICATION: ASH STACKER; ENCLOSURE RATING: IP65; SUPPL P/N: VR 2 D.1/L24; LUFFING RETURN LINE DP SWITCH	MAP	V1	EA	1	2

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618123	SWITCH PRESS:BLOCKED FILTER DIFFERENTIAL	SWITCH, PRESSURE: TYPE: BLOCKED FILTER DIFFERENTIAL; RANGE: 0-3 BAR; POTENTIAL: 24 VAC; CURRENT: 3 A; ACTION: SPST; CONNECTION: G1/2; CONTACT ARRANGEMENT: 1NO 1NC; POWER: 100 VA; DIMENSIONS: WD 28 X LG 110 X HT 48 MM; APPLICATION: LUFFING PREASURE LINE; ENCLOSURE RATING: IP65; SUPPL P/N: VD5D.0/-L24	MAP	V1	EA	1	2
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621535	SWITCH FLW:AL CAST/1.4404;120-240 VAC;8	SWITCH, FLOW: MATERIAL: AL CAST/1.4404; POTENTIAL: 120-240 VAC; CURRENT: 8 A; RANGE: 0.003-1.5 MS; ACTION: DPDT; CONNECTION: 1 IN- FNPT; ENCLOSURE: IP66; CONTACT RATING: 250 VAC 8 A; DIMENSIONS: LG 70 MM; ENCLOSURE RATING: IP66; PIPE CONNECTION: 150 MM; CLASSIFICATION: NON HAZARDOUS; SPECIFICATION: ASME B1.20.1; SUPPL P/N: TD2- 7D01-031-XTMA-A210-007; REFERENCE NO: 102648- 08-001; MAXIMUM PRESSURE: 41.4 BAR AT 40 DEG C; CABLE ENTRY: M20 X 1.5 MM; POWER VOLTAGE: 240V	C&I	V1	EA	2	4
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621536	SWITCH FLW:AL CAST/1.4404;120-240 VAC;8	SWITCH, FLOW: MATERIAL: AL CAST/1.4404; POTENTIAL: 120-240 VAC; CURRENT: 8 A; RANGE: 0.003-1.5 MS; ACTION: DPDT; CONNECTION: 1 IN- FNPT; ENCLOSURE: IP66; CONTACT RATING: 250 VAC 8 A; DIMENSIONS: LG 100 MM; ENCLOSURE RATING: IP66; PIPE CONNECTION: 200 MM; CLASSIFICATION: NON HAZARDOUS; SPECIFICATION: ASME B1.20.1; SUPPL P/N: TD2- 7D01-031-XTMA-A210-010; REFERENCE NO: 102648- 09-002; MAXIMUM PRESSURE: 41.4 BAR AT 40 DEG C; CABLE ENTRY: M20 X 1.5 MM; POWER VOLTAGE: 240V	C&I	V1	EA	2	4
621692	SENSOR:GALVANIC OXYGEN;0-100 PPM	SENSOR: TYPE: GALVANIC OXYGEN; RANGE: 0-100 PPM; RATING: 220 VAC 1 PH 50 HZ; FOR USE WITH GPR1900 ADVANCED INSTRUMENTS OXYGEN ANALYSER; SENSITIVITY OF 0.01PPM; ACCURACY +/- 2PCT OF FULL SCALE UNDER CONSTANT CONDITIONS	WAT	V1	EA	2	4

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621762	SWITCH FLW:BRZ;250 VAC;1.5 A;0.5-8 L/MIN	SWITCH, FLOW: MATERIAL: BRZ; POTENTIAL: 250 VAC; CURRENT: 1.5 A; RANGE: 0.5-8 L/MIN; ACTION: SPDT; CONNECTION: G3/8 IN-BSPP; ENCLOSURE: IP65; SUPPL P/N: HDD2KO-010-G-M-008E	BFF	V1	EA	2	4
621763	SWITCH FLW:BRZ;220 VAC;1.5 A;1.5-15;IP65	SWITCH, FLOW: MATERIAL: BRZ; POTENTIAL: 220 VAC; CURRENT: 1.5 A; RANGE: 1.5-15 L/MIN; ACTION: (2) SPDT; CONNECTION: G3/8 IN-BSPP; ENCLOSURE: IP65; SUPPL P/N: HD2KO-010-G-M-015E	BFF	V1	EA	2	4
621764	SWITCH FLW:BRZ;250 VAC;1.5 A;1.5-15;IP65	SWITCH, FLOW: MATERIAL: BRZ; POTENTIAL: 250 VAC; CURRENT: 1.5 A; RANGE: 1.5-15 L/MIN; ACTION: (2) SPDT; CONNECTION: G1/2 IN-BSPP; ENCLOSURE: IP65; SUPPL P/N: HDD2KO-015-M-015E	BFF	V1	EA	2	4
621767	SWITCH PRESS:5-400 BAR;150 VAC;4-20 MA	SWITCH, PRESSURE: RANGE: 5-400 BAR; POTENTIAL: 150 VAC; CURRENT: 4-20 MA; ACTION: SPST; CONNECTION: 3 PIN; CONTACT ARRANGEMENT: 1NO 1NC; POWER: 20 W; DIMENSIONS: DIA 76.5 X HT 86 MM; ENCLOSURE RATING: IP65; SPECIFICATION: DIN EN 173501; SUPPL P/N: PIS3115/5.0	BFF	V1	EA	1	2

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621768	SWITCH PRESS:2.2-160 BAR;150 VAC;4-20 MA	SWITCH, PRESSURE: RANGE: 2.2-160 BAR; POTENTIAL: 150 VAC; CURRENT: 4-20 MA; ACTION: SPST; CONNECTION: 3 PIN; CONTACT ARRANGEMENT: 1NO 1NC; POWER: 20 W; DIMENSIONS: DIA 76.5 X HT 86 MM; ENCLOSURE RATING: IP65; SPECIFICATION: DIN EN 173501; SUPPL P/N: PIS3116/2.2	BFF	V1	EA	1	2
622116	SWITCH PRESS:ELECTRONIC; 0.16-600 BAR;200	SWITCH, PRESSURE: TYPE: ELECTRONIC; RANGE: 0.16-600 BAR; POTENTIAL: 22 TO 32 VDC; CURRENT: 200 MA; ACTION: 4PST; CONNECTION: G1/4 IN; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE RATING: IP65; SUPPL P/N: EDS1791-N-400-000; PREFERRED OEM P/N: EDS 1691-T-C-400-D00; 4-POLE TERMINAL TRIP	PPS	V1	EA	20	40

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622117	SWITCH PRESS:HIGH COMBUSTION;0-100 BAR	SWITCH, PRESSURE: TYPE: HIGH COMBUSTION; RANGE: 0-100 BAR; POTENTIAL: 22 TO 32 VDC; CURRENT: 200 MA; ACTION: DPDT; CONNECTION: G1/4 IN; CONTACT ARRANGEMENT: 4NO 4NC; DIMENSIONS: WD 126 X LG 150 X HT 80 MM; APPLICATION: REHEATER TO HEADER; ENCLOSURE RATING: IP65; SPECIFICATION: EN 61000-6-1/2/3/4; SUPPL P/N: EDS1791-TC100-D00; PREFERRED OEM P/N: EDS 1691-T-C-100-D00; 12-POLE TERMINAL STRIP	PPS	V1	EA	20	40
622118	SWITCH PRXMY:INDUCTIVE SENSOR;0-8 MM	SWITCH, PROXIMITY: TYPE: INDUCTIVE SENSOR; SENSING RANGE: 0-8 MM; POTENTIAL: 10-60 VAC; CURRENT: 0-400 MA; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; SPECIFICATION: EN 60947-5-2-2007; IEC 60947-5-2-2007; SUPPL P/N: NJ8- 18GM50-A2	C&I	V1	EA	20	40

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623933	SWITCH LVL:MAGNETIC FLOAT;24 VDC;0.5-2 A	SWITCH, LEVEL: METHOD OF ACTUATION: MAGNETIC FLOAT; RANGE: 1 BAR; 100 DEG C; POTENTIAL: 24 VDC; CURRENT: 0.5-2 A; ACTION: SPST; CONTACT ARRANGEMENT: 1NO 1NC; DIMENSIONS: LG 490 MM; APPLICATION: ACC FAN GEARBOX; ENCLOSURE: IP65; ENCLOSURE RATING: IP65; SPECIFICATION: DIN EN 60751; SUPPL P/N: NIVOTEMP-M-1-MS-M3-TMS-100	ACC	V1	EA	4	8
624063	SWITCH LMT:10-60 VDC;0-100 MA;SPDT;SS	SWITCH, LIMIT: POTENTIAL: 10-60 VDC; CURRENT: 0- 100 MA; ACTION: SPDT; ACTUATOR: PUSH BUTTON TOGGLE; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: STAINLESS STEEL; CONTACT RATING: 0-100 MA; DIMENSIONS: WD 12 X LG 60 MM; APPLICATION: FD FANS; ENCLOSURE RATING: IP65; SPECIFICATION: IEC EN 60947-5-2-2004; SUPPL P/N: NJ2-8GM40-E2-V1	C&I	V1	EA	20	40

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624066	SWITCH LMT:24 VDC;3 A;SPDT;MAGNETIC;IP 65	SWITCH, LIMIT: POTENTIAL: 24 VDC; CURRENT: 3 A; ACTION: SPDT; ACTUATOR: MAGNETIC; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: SS GR 303; DIMENSIONS: WD 16 X LG 70 MM; APPLICATION: ID FANS; ENCLOSURE RATING: IP65; SUPPL P/N: GO74-13528-B4; WITH 5/8IN-18UNF X 1-7/8IN (48MM) THREAD; SENSING RANGE: 2.5MM; TEMPERATURE: - 40 TO 80DEG C	BFI	V1	EA	4	8
624067	SWITCH LMT:10-30 VDC;0-100 MA;SPDT;IP67	SWITCH, LIMIT: POTENTIAL: 10-30 VDC; CURRENT: 0-100 MA; ACTION: SPDT; ACTUATOR: INDUCTIVE SENSOR; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: BRS NICKEL PLTD; DIMENSIONS: WD 8 X LG 60 MM; APPLICATION: PA FANS; ENCLOSURE RATING: IP67; SPECIFICATION: IEC 6047-5-2-2007; SUPPL P/N: NBN2-8GM60-AO	BFP	V1	EA	20	40

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625895	SWITCH FLW:SS;250 VAC;1.5 A;5-20 L/MIN	SWITCH, FLOW: MATERIAL: STAINLESS STEEL; POTENTIAL: 250 VAC; CURRENT: 1.5 A; RANGE: 5-20 L/MIN; ACTION: SPDT; CONNECTION: THD G3/4 IN FEMALE DN 20; ENCLOSURE: IP65; POWER: MAX 50 VA; APPLICATION: BOILER FEED PUMPS; DIMENSIONS: DN 20 MM-G3/4 IN; ENCLOSURE RATING: IP65; SUPPL P/N: MR-015GK020; REFERENCE NO: MR-015GK020	FWS	V1	EA	5	10
no material number	SWITCH PRXMY:TWO WIRE DC;15 MM; 8 VDC	SWITCH, PROXIMITY: TYPE: TWO WIRE DC; SENSING RANGE: 15 MM; POTENTIAL: 8 VDC; CURRENT: 2,2 MA; ACTION: NAMUR; CONTACT ARRANGEMENT: NC; ENCLOSURE: EX RATED IP66 / IP68 / IP69K; DIMENSIONS: H40 X W40 X L118 MM; SUPPL P/N: NBB15-U1K-N0; REFERENCE: MKW40 AA002; MKG31 CG304	C&I	V1	EA	8	16

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626406	SWITCH PRXMY:INDUCTIVE PROXIMITY;15 MM	SWITCH, PROXIMITY: TYPE: INDUCTIVE PROXIMITY; SENSING RANGE: 15 MM; POTENTIAL: 24-210 VDC; CURRENT: 5-200 MA; ACTION: SPST; CONTACT ARRANGEMENT: 1 NC; DIMENSIONS: 81 X 30 ML; CONNECTION: CABLE; APPLICATION: CONVEYOR SLIP DETECTION; CLASSIFICATION: NON HAZARDOUS; SPECIFICATION: IP67; SUPPL P/N: XSAV12801; REFERENCE NO: XSAV12801	C&I	V1	EA	2	4
633934	SWITCH LMT:24 VDC;10 A;(2) SPDT;1P;IP68	SWITCH, LIMIT: POTENTIAL: 24 VDC; CURRENT: 10 A; ACTION: (2) SPDT; ACTUATOR: MECHANICAL LEVER; CONTACT ARRANGEMENT: 1P; ENCLOSURE: IP68; SUPPL P/N: TVA-M2WYNM; REFERENCE NO: TVA- M2WYNM	C&I	V1	EA	40	80
633935	SWITCH LMT:24 VDC;3 A;(2) SPDT;1P;IP65	SWITCH, LIMIT: POTENTIAL: 24 VDC; CURRENT: 3 A; ACTION: (2) SPDT; ACTUATOR: MECHANICAL LEVER; CONTACT ARRANGEMENT: 1P; ENCLOSURE: IP65; SUPPL P/N: SP012H0-2; REFERENCE NO: SP012H0-2	DST	V1	EA	6	12

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634158	SWITCH LMT:30/125 VAC/DC;0.1 A;SPDT	SWITCH, LIMIT: POTENTIAL: 30/125 VAC/DC; CURRENT: 0.1 A; ACTION: SPDT; ACTUATOR: ROLLER LEVER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: AL/PC; SUPPL P/N: WDB1166201	C&I	V1	EA	6	12
634163	SENSOR:INDUCTIVE;0 -5 MM;8 V DC	SENSOR: TYPE: INDUCTIVE; RANGE: 0-5 MM; RATING: 8 V DC; SUPPL P/N: NJ5-18GK-SN	COA	V1	EA	5	10
634685	REGULATOR PRESS:AIR/GAS;8.6 BAR;10-15	REGULATOR, PRESSURE: TYPE: AIR/GAS; INLET PRESSURE: 8.6 BAR; OUTLET PRESSURE: 10-15 MBAR; CONNECTION: 1/8 ORIFICE IN; BODY MATERIAL: CAST IRON; SUPPL P/N: HSR-BBFC SYN; REFERENCE NO: PCV-01-001; SPRING PART NUMBER: T14398T0012 (ORANGE); AIR PRESSURE REDUCING REGULATOR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	TGN	V1	EA	2	4

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636012	SWITCH LMT:240 V;5 A;SP;1NO 1NC;IP67;240	SWITCH, LIMIT: POTENTIAL: 240 V; CURRENT: 5 A; ACTION: SP; ACTUATOR: LEVER WITH ROLLER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP67; POWER: 240 V; APPLICATION: SOOTBLOWERS; ENCLOSURE RATING: IP67; MANUF P/N: 47203-R732; REFERENCE NO: OHCB20/40 AT011-014; 14121902; 004.0433; OHCB20/40 AT031-034; OHCB20/40 AT041- 044; OHCB20/40 AT061-064; OHCB20/40 AT051-054; OHCB20/40 AT021-024; 1 000 000 CYCLES; EM14 D-S 1O/1S + 90 DEG WITH 5 METER CABLE	DST	V1	EA	12	24
636255	LOAD CELL FRC WT:S;2 T;350 OHM;SS;18 V	LOAD CELL, FORCE WEIGHT: TYPE: S; CAPACITY: 2 T; RATING: 350 OHM; DIMENSIONS: WD 32 X HT 92 X LG 86 MM; MATERIAL: STAINLESS STEEL; POTENTIAL: 18 V; MANUF P/N: BM3-C3-2T-68; M20 MOUNTED TO CLEVIS BEARING AND M20 MOUNTED TO LOADCELL TENSION BAR; ATEX CLASSIFICATION - II1C T4; 4 WIRE SHIELDED CABLE	COA	V1	EA	3	6

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637005	SWITCH LMT:240 VAC;30 A;SP;1NO 1NC;IP67	SWITCH, LIMIT: POTENTIAL: 240 VAC; CURRENT: 30 A; ACTION: SP; ACTUATOR: E50DW1 WOBBLY HEAD SPRING RETURN HEAD; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP67; POWER: 720 VA; DIMENSIONS: WD 39 X LG 52 X HT 107 MM; APPLICATION: STOCKYARD CONVEYOR TAKE-UP LIMIT SWITCH; ENCLOSURE RATING: NEMA 1,3,3S,5,4X,6,SP,13; MANUF P/N: E50KW3; E50RA20; E50DW1; E50SA; ACTUATOR WITH E50KW3 SS ROD OPERATOR; MAKE 7200VA; BREAK 720VA	COA	V1	EA	6	12
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637006	SWITCH LMT:240 VAC;30 A;SP;ROLLER LEVER	SWITCH, LIMIT: POTENTIAL: 240 VAC; CURRENT: 30 A; ACTION: SP; ACTUATOR: ROLLER LEVER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP67; POWER: 720 VA; DIMENSIONS: WD 77 X LG 96 X HT 175 MM; APPLICATION: STACKER TRAVEL/SKEW LIMIT SWITCH; CLASSIFICATION: NEMA 4; MANUF P/N: 10316H18; CW AND CCW OPERATION; SPRING RETURN; MAKE 7200VA; BREAK 720VA; FOR USE ON STACKER TRAVEL/SKEW LIMIT SWITCH	COA	V1	EA	4	8
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637009	SWITCH PRXMY:BARREL INDUCTIVE;20 MM;24	SWITCH, PROXIMITY: TYPE: BARREL INDUCTIVE; SENSING RANGE: 20 MM; POTENTIAL: 24 VDC; CURRENT: 300 MA; ACTION: SPST; CONTACT ARRANGEMENT: NO; CONTACT RATING: 10-300 VDC 3 A; CONNECTION: 2 WIRE; APPLICATION: CONVEYOR MOVABLE HEAD/SHUTTLE OPERATIONAL LIMIT SWITCH; CLASSIFICATION: IP67; REFERENCE NO: NI20U-M30-ADZ30X2; M30 THREADED; X 1.5MM X 40MM; TOTAL LENGTH 64MM; 2 METER CABLE; CHROME PLATED METAL HOUSING; POWER ON INDICATION GREEN LED; SWITCHING STATE YELLOW LED; UPROX FACTOR 1 SENSOR	COA	V1	EA	30	60
638993	SENSOR:INCLINATION ;0-360 DEG C;IP68;SLOT	SENSOR: TYPE: INCLINATION; RANGE: 0-360 DEG C; RATING: IP68; ELECTRICAL CONNECTION: M12 X 1; 5 PIN; MOUNT: SLOT; DIMENSIONS: WD 32 X LG 65 X HT 44 MM; SUPPL P/N: INX360D-F99-I2E2-V15	COA	V1	EA	3	6

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no material number	Bled steam hydraulic skid pressure switch Bosch Rexroth	REXROTH PRESSURE SWITCH; HED 8 OA-20/350K14; PMA 400 BAR; VOLTAGE RATING: 250V AC 2A; 24V DC 2A; APPLICATION: USED ON BLED STEAM HYDRAULIC SKIDS; REFERENCE: BOSCH REXROTH AG D-97816 LOHR; OEM P/N: MNR: R901102710; FD: 25W10; SN: 63	C&I	V1	EA	10	20
no material number	Regulator for air operated valves used on Turbine Cold reheat system	REGULATOR, FILTER: TYPE: AIR; BODY MATERIAL: PLASTIC; INLET PRESSURE: 17 BAR; OUTLET PRESSURE: 0.4-10 BAR; MEDIA FOR WHICH DESIGNED: AIR; APPLICATION: COLD REHEAT AIR REGULATED VALVES; OEM P/N: B72G-2GK-SD2-RMN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	C&I	V1	EA	10	20

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750225	SWITCH PRXMY:INDUCTIVE SENSOR	SWITCH, PROXIMITY: TYPE: INDUCTIVE PROXIMITY SWITCH; SENSING RANGE: 2 MM; POTENTIAL: 10-60 VDC; CURRENT: 0-200 MA; ACTION: INDUCTIVE SENSOR; SWITCHING FUNCTION: NORMALLY CLOSED; 2MM FLUSH; OUTPUT TYPE: PNP; CONTACT ARRANGEMENT: NC; CONTACT RATING: N/A; DIMENSIONS: 12MM X 40MM; CONNECTION: 3 WIRE CONNECTION, BROWN/BLACK/BLUE; APPLICATION: USED ON THE WATER CANNON ISOLATING VALVES; SPECIFICATION: PEPPERL+FUCHS INDUCTIVE SENSOR; OEM P/N: NJ2-12GM40-E2-V1; REFERENCE: HCC21/22/31/32/41/42/51/52 CG301/2	C&I	V1	EA	16	32
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749991	BUTTON:C EMERGENCY STOP;RED	PUSH BUTTON: TYPE: RED COMPACT EMERGENCY STOP MUSHROOM TYPE C; ABB; MANUF P/N: CE4T- 10R-02; PRODUCT ID: 1SFA619550R1051; 40MM; 2xNC AUXILIARY CONTACTS; PLASTIC ROUND ACTUATOR; ROTATE TO UNLATCH MECHANISM; AMBIENT TEMPERATURE -25 TO 70 DEG; PROTECTION CLASS IP66; FRONT MOUNTING	C&I	V1	EA	8	16
no material number	CEP valve limit switch assemblies	BOX: TYPE: LIMIT SWITCH; MATERIAL: POLYAMID / POLYCARBONATE; MANUF P/N: EPP2M01-F05; APPLICATION: CEP SUCTION VALVES; SPECIFICATION: SWITCH, CHERRY, D44X; VOLTAGE: 250VAC; CURRENT: 10 A; OPERATING TEMPERATURE: -20 +80 DEGC; OEM: EUROTEC; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	C&I	V1	EA	10	20

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no material number	Gland steam valves regulator	REGULATOR, FILTER: TYPE: AIR; BODY MATERIAL: METAL; OUTLET PRESSURE: 0.05-0.85 MPA; APPLICATION: GLAND STEAM PNEUMATIC VALVES; OEM: SMC; OEM P/N: AW30-N02BC-2-B; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE). VENDOR TO SUPPLY DATASHEET	C&I	V1	EA	10	20
no material number	Cable accesory for inductive sensors on ID and FD fan speed sensors	CABLE: TYPE: PLUG CONNECTOR CABLE; PEPPERL&FUCHS FEMALE CORDSET, PUR CABLE; APPLICATION: USED ON ID FAN AND FD FAN SPEED SENSORS WITH V1 MALE CONNECTORS; LENGTH: 15 METRE; CONNECTOR SIZE: M12; 5-PIN WITH 5 WIRES (BROWN; WHITE; BLUE; BLACK; GREY COLOURS); OEM P/N: V15-G-15M-PUR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	C&I	V1	EA	10	20

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no material number	BUTTON:C EMERGENCY STOP;RED	PUSH BUTTON: TYPE: RED COMPACT EMERGENCY STOP MUSHROOM TYPE C; ABB; MANUF P/N: CE4T- 10R-11; PRODUCT ID: 1SFA619550R1071; 40MM; 1xNO 1xNC AUXILIARY CONTACTS; PLASTIC ROUND ACTUATOR; ROTATE TO UNLATCH MECHANISM; AMBIENT TEMPERATURE -25 TO 70 DEG; PROTECTION CLASS IP66; FRONT MOUNTING	C&I	V1	EA	30	60
640263	REGULATOR PRESS:SPRING LOADED;50 KPA;20	REGULATOR, PRESSURE: TYPE: SPRING LOADED; INLET PRESSURE: 50 KPA; OUTLET PRESSURE: 20 KPA; CONNECTION: FLANGE; BODY MATERIAL: ALUMINIUM; SUPPL P/N: FRS 503; MODEL NO: 01-03 QHJ11/12 AA601; REFERENCE NO: 086462; DN40/DN150; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	BAP	V1	EA	2	4

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641894	SWITCH LVL:ROLLER LEVER;0-90 DEG C;24	SWITCH, LEVEL: METHOD OF ACTUATION: ROLLER LEVER; RANGE: 0-90 DEG C; POTENTIAL: 24 VDC; CURRENT: 2.8 A; ACTION: DPDT; CONTACT ARRANGEMENT: 1NO 1NC; DIMENSIONS: WD 20 X LG 144 X HT 40 MM; APPLICATION: CONDITIONER GREASE RESERVOIR LUBRICATION; ELECTRICAL CONNECTION: M20 X 1.5 CABLE GLAND; ENCLOSURE: IP65; ENCLOSURE RATING: IP65; CLASSIFICATION: NON HAZARDOUS; SUPPL P/N: BP- H24-Z11	DST	V1	EA	2	4
642575	SWITCH TEMP:30-540 DEG C;230 VAC;4 A;5	SWITCH, TEMPERATURE: RANGE: 30-540 DEG C; POTENTIAL: 230 VAC; CURRENT: 4 A; CONTACT ARRANGEMENT: 1NO 1NC; POWER: 5 VA; DIMENSIONS: WD 75 X LG 120 X HT 158 MM; CLASSIFICATION: IP20; MANUF P/N: TRS 5-6B	C&I	V1	EA	1	2

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642694	SWITCH PRESS:AIR;0-300 MBAR;250 VAC;5 A	SWITCH, PRESSURE: TYPE: AIR; RANGE: 0-300 MBAR; POTENTIAL: 250 VAC; CURRENT: 5 A; ACTION: DPST; CONNECTION: BOTTOM 1/2 IN-NPT; CONTACT ARRANGEMENT: 1NO 1NC; POWER: 250 VAC; ENCLOSURE RATING: IP54; MANUF P/N: DL150A-31	C&I	V1	EA	2	4
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642697	POSITIONER VLV:ELECTROPNEUM ATIC;3.5-7	POSITIONER, VALVE: TYPE: ELECTROPNEUMATIC; SUPPLY PRESSURE: 3.5-7 BAR; INPUT: 4-20 MA; MANUF P/N: EL5CD; REFERENCE NO: 6ETG11-12 AA001 MS01; FLOWRATE 3.3 SCFM/93 L/M @ 5.5 BAR; OPERATING TEMPERATURE -20 TO 70 DEG C; CASE AND COVER ZINC ALLOY; SPOOL AND LINER STAINLESS STEEL; ENCLOSURE RATING IP65/NEMA 4X; SENSITIVITY BETTER THAN 0.1MA; HYSTERESIS BETTER THAN 0.7% OF SPAN; REPEATABILITY BETTER THAN 0.7% OF SPAN; ADJUSTMENT LOW AND HIGH POINTS; WEIGHT 2.95KG; DIMENSIONS WD 115 X LG 160 X HT 56MM; TWO WIRE; ANGLE RETRANSMIT; DIN PLUGS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	DST	V1	EA	8	16
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642729	SWITCH LVL:ELECTRONIC;0-55 DEG C;230 VAC	SWITCH, LEVEL: METHOD OF ACTUATION: ELECTRONIC; RANGE: 0-55 DEG C; POTENTIAL: 230 VAC; CURRENT: 2.5 A; POWER: 300 W; ACTION: SPST; CONTACT ARRANGEMENT: 1NO 1NC; DIMENSIONS: WD 51 X LG 106 X HT 112 MM; CABLE LENGTH: 30 M; ENCLOSURE: IP40; MANUF P/N: NRS 1-8B; IP40	C&I	V1	EA	2	4
642732	SWITCH LVL:MAGNETIC;-20 TO 90 DEG C;DT	SWITCH, LEVEL: METHOD OF ACTUATION: MAGNETIC; RANGE: -20 TO 90 DEG C; POTENTIAL: 4- 250 VAC; CURRENT: 1 MA TO 3 A; POWER: 4-250 VAC; ACTION: DT; CONTACT ARRANGEMENT: 1NO 1NC; DIMENSIONS: WD 58 X LG 75 X HT 80 MM; ELECTRICAL CONNECTION: PLUG; ENCLOSURE: ALUMINIUM; ENCLOSURE RATING: IP65; REFERENCE NO: MAGTOP SNAP 201	C&I	V1	EA	1	2

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643887	SENSOR CUR:100 A	SENSOR, CURRENT: CURRENT: 100 A; SUPPL P/N: 107020040; HALL EFFECT CURRENT SENSOR OPEN LOOP (30-250A); VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	DEG	V1	EA	6	12
643888	SENSOR CUR:300 A	SENSOR, CURRENT: CURRENT: 300 A; SUPPL P/N: 0107020042; HALL EFFECT CURRENT SENSOR OPEN LOOP (250-700A); VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	DEG	V1	EA	6	12
644573	BOX:LIMIT SWITCH;WD 82 MM;LG 130 MM;57	BOX: TYPE: LIMIT SWITCH; WIDTH: 82 MM; LENGTH: 130 MM; DEPTH: 57 MM; MATERIAL: AL NI PLTD; COLOR: SILVER; MANUF P/N: SM0120N-22; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	C&I	V1	EA	40	80

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644574	SENSOR:INDUCTIVE;5 M;8.2 V DC;2 M;M18	SENSOR: TYPE: INDUCTIVE; RANGE: 5 M; RATING: 8.2 V DC; CABLE LENGTH: 2 M; PROBE DIAMETER: M18; SCALE: 0-5 MM; MANUF P/N: NCB5-18GM40-NO; REFERENCE NO: 181108; FOR MILL FEEDER SPEED SENSOR	C&I	V1	EA	6	12
644634	SWITCH PRESS:MONITOR;0-25 BAR;250 V;10 A	SWITCH, PRESSURE: TYPE: MONITOR; RANGE: 0-25 BAR; POTENTIAL: 250 V; CURRENT: 10 A; ACTION: SP; CONNECTION: G1/2A IN; CONTACT ARRANGEMENT: 1NO 1NC; POWER: 50 W; CLASSIFICATION: NON HAZARDOUS; ENCLOSURE RATING: IP65; MANUF P/N: DSB 158F001	C&I	V1	EA	3	6
644766	SWITCH:POSITION;24 VDC;4 A;1NO 1NC;DPDT	SWITCH: TYPE: POSITION; POTENTIAL: 24 VDC; CURRENT: 4 A; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: DPDT; APPLICATION: ACTUATORS; SPECIFICATION: EN 50041; MANUF P/N: Z4VH335-11Z; REFERENCE NO: 101154520; IP67; CABLE ENTRY M20 X 1.5	C&I	V1	EA	100	200
645190	SENSOR:INDUCTIVE	SENSOR: TYPE: INDUCTIVE; SUPPL P/N: NJ2-12GK-N	C&I	V1	EA	12	24

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645197	SWITCH PRXMY:INDUCTIVE	SWITCH, PROXIMITY: TYPE: INDUCTIVE; SUPPL P/N: IFRM12E9599	C&I	V1	EA	12	24
645213	SWITCH PRXMY:INDUCTIVE SENSOR	SWITCH, PROXIMITY: TYPE: INDUCTIVE SENSOR; SUPPL P/N: NCN4-12GM40-Z0	C&I	V1	EA	6	12
646024	DETECTOR:SPEED	DETECTOR: TYPE: SPEED; SUPPL P/N: TCR.4202827000; REFERENCE NO: D224.152U1M	C&I	V1	EA	6	12
646038	SENSOR:MAGNETIC FIELD M;0-1600 RPM;10 M	SENSOR: TYPE: MAGNETIC FIELD M; RANGE: 0-1600 RPM; RATING: 4-20 MA; CABLE LENGTH: 10 M; SUPPL P/N: A5S07T120-10M; SPEED SENSOR (PICK-UP) FOR USE ON VORECON SECONDARY SPEED CONTROL LAC11/12/13 CS001	FWS	V1	EA	6	12
646039	SENSOR:MAGNETIC FIELD;0-6200 RPM;4- 20 MA	SENSOR: TYPE: MAGNETIC FIELD; RANGE: 0-6200 RPM; RATING: 4-20 MA; SUPPL P/N: A5S33-85792; SPEED SENSOR (PICK-UP) FOR USE ON VORECON OUTPUT SPEED CONTROL LAC11/12/13 CS002	FWS	V1	EA	6	12

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646060	SENSOR TEMP:-200 TO 600 DEG C;MODULAR	SENSOR, TEMPERATURE: MAXIMUM OPERATING TEMP: -200 TO 600 DEG C; STYLE DESIGNATOR: MODULAR; OUTPUT SIGNAL: 4-20 MA; MANUF P/N: TSP131-Y0S2D1Y00K1M2Y0D4D1P2B2B2H4; REFERENCE NO: TSP131; SS 316 TI/ 1.4571 MATERIAL OF WETTED PARTS; THERMOWELL TYPE WELD IN THERMOWELL FROM BAR STOCK MATERIAL, ACC TO DIN 43772; FORM 4 DIAMETER F2=24MM; WITHOUT PROCESS CONNECTION; 150MM EXTENSION TUBE LENGTH K; THERMOWELLL CONNECTION PARALLEL THREAD M18 X1.5; THERMOWELL LENGTH 200MM, C=65MM; SENSOR TYPE 1 X PT100 3 WIRE; CONNECTION HEAD BUZH/ALUMINIUM HIGH COVER HINGED TRANSMITTER TTH300 PROGRAMMABLE; OUTPUT SIGNAL 4-20 MA, HART	C&I	PD	EA	10	20
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648133	SENSOR VBRTN:0-32 MM/S;-20 TO 60 DEG C	SENSOR, VIBRATION: MEASURING RANGE: 0-32 MM/S RMS; FREQUENCY RANGE: 10...1000 HZ STANDARD; OPERATING TEMPERATURE: -20 TO 60 DEG C; OUTPUT: 4-20 MA; POTENTIAL: 24 VDC; CONNECTION: M12 CONNECTOR; MOUNT: M8 X 8MM; PITCH 1,25MM; CURRENT: 4-20 MA; ENCLOSURE: IP67; MANUF P/N: HE100.00.32.00.00.00.000; REFERENCE: HAUBER ELEKTRONIK SERIAL NR: 121220; ITEM NR: 10943; POWER INPUT: MAX 25 MA; HOUSING MATERIAL: STAINLESS STEELV2A 1.4305; SUPPLIER TO ENSURE THE PROBE IS THE BIG ONE THAT IS SUPPLIED, THE SMALL ONE DOES NOT WORK CORRECTLY; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE). THE DATASHEET CAN BE PROVIDED IF NECESSARY	C&I	V1	EA	60	120
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648247	SENSOR:INDUCTIVE PROXIMITY;8 MM;LG 80 MM	SENSOR: TYPE: INDUCTIVE PROXIMITY; RANGE: 8 MM; RATING: 20-250 V DC; ELECTRICAL CONNECTION: CABLE 2 X 0.5 MM2; DIMENSIONS: LG 80 MM; SPECIFICATION: EN 60947-5-2 CL B; CABLE LENGTH: 2 M; SUPPL P/N: IG-2008-ABOA(IG0006); 1X LED DISPLAY; PROTECTION CLASS II; NORMALLY OPEN; IP67; MATERIAL: PBT; SUPPLY WITH TWO LOCKNUTS	DST	V1	EA	6	12
648983	BASE RLY:BASIC TERMINAL BLOCK;WD 6.2 MM	BASE, RELAY: TYPE: BASIC TERMINAL BLOCK; WIDTH: 6.2 MM; HEIGHT: 80 MM; MATERIAL: PLASTIC; POTENTIAL: 24 VDC; LENGTH: 94 MM; MANUF P/N: 2967219; REFERENCE NO: PLC-BSP-24DC/21; AMBIENT TEMPERATURE - OPERATION 40 TO 60 DEG C	C&I	V1	EA	10	20

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653886	SWITCH LVL:RELAY;60-550 MM;150 VDC;3 A	SWITCH, LEVEL: METHOD OF ACTUATION: RELAY; RANGE: 60-550 MM; POTENTIAL: 150 VDC; CURRENT: 3 A; ACTION: 3PST; CONTACT ARRANGEMENT: NO; DIMENSIONS: OD 75 MM; APPLICATION: GREASE BARRELS LEVEL INDICATION; ELECTRICAL CONNECTION: CABLE; ENCLOSURE RATING: IP65; MANUF P/N: 76951-6011; 7 POLAR 90 DEGREE CABLE BOX (PG 13.5); SWITCHING CURRENT MAX 3A; SWITCHING CURRENT MIN 0.1 MA; 100 MV DC; ULTRASONIC TYPE; FREQUENCY 380 KHZ; SWITCHING CAPACITY 90W AT 30VDC; 750W AT 250VAC; MECHANICAL CONNECTION M30 X 1.5MM THREAD; STACKER AND RECLAIMER GREASE BARREL	COA	V1	EA	4	8
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653887	SWITCH PRXMY:INDUCTIVE;12 MM;10-30 VDC	SWITCH, PROXIMITY: TYPE: INDUCTIVE; SENSING RANGE: 12 MM; POTENTIAL: 10-30 VDC; CURRENT: 0- 200 MA; ACTION: SPST; CONTACT ARRANGEMENT: NO; CONNECTION: M12 X1 (3 PIN); APPLICATION: COAL STACKERS; RECLAIMERS; CLASSIFICATION: IP67; MANUF P/N: NEB12-18GM50-E2-V1; INSTALLATION QUASI FLUSH; HOUSING MATERIAL BRASS, NICKEL PLATED; TO INCLUDE A V1-G STRAIGHT FEMALE CONNECTOR M12, 3 PIN WITH 2 METRE CABLE; M18 X 1 MOUNTING; TOTAL 63.5MM	COA	V1	EA	3	6
653906	SENSOR:INDUCTIVE;5 MM;5-60 V DC;2 WIRE;2	SENSOR: TYPE: INDUCTIVE; RANGE: 5 MM; RATING: 5-60 V DC; ELECTRICAL CONNECTION: 2 WIRE; CABLE LENGTH: 2 M; MANUF P/N: NBB5-18GM40-Z0- V1; IP67; 2 TO 200MA; INSTALLATION FLUSH MOUNTABLE; HOUSING MATERIAL BRASS, NICKEL PLATED; TO INCLUDE A V1-G STRAIGHT FEMALE CONNECTOR M12; 4 PIN; FOR COAL RECLAIMERS	COA	V1	EA	2	4

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653910	SENSOR:INDUCTIVE PROXIMITY;8 MM;24 V DC	SENSOR: TYPE: INDUCTIVE PROXIMITY; RANGE: 8 MM; RATING: 24 V DC; ELECTRICAL CONNECTION: 2 WIRE; DIMENSIONS: 62 MM; CABLE LENGTH: 2 M; PROBE DIAMETER: M18X1; MANUF P/N: XS618B1MAL2; IP68; SWITCHING CAPACITY 5-200 MA DC; DISCRETE OUTPUT FUNCTION 1 NO; SENSOR DESIGN CYLINDRICAL M18	COA	V1	EA	15	30
655992	REGULATOR FLTR:AIR;AL;14.71 BAR;0.4.2	REGULATOR, FILTER: TYPE: AIR; BODY MATERIAL: ALUMINIUM; INLET PRESSURE: 14.71 BAR; OUTLET PRESSURE: 0.4.2 BAR; CONNECTION: NPT 1/4 IN; MEDIA FOR WHICH DESIGNED: AIR; MANUF P/N: YT- 200-A-N-0-1; MAX SUPPLY PRESSURE 17 BAR; OPERATING PRESSURE -20 TO 70 DEG C; MIN FILTERING SIZE 5 MICRON; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	TUR	V1	EA	3	6

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655993	REGULATOR FLTR:AIR;ZINK;0.3-10 BAR	REGULATOR, FILTER: TYPE: AIR; BODY MATERIAL: ZINK; INLET PRESSURE: 0.3-10 BAR; OUTLET PRESSURE: 0.3-10 BAR; CONNECTION: PTF 1/4 IN; MEDIA FOR WHICH DESIGNED: COMPRESSED AIR; MANUF P/N: B72G-2AK-QM3-RMN 565; WITH PRESSURE GAUGE AND SEMI AUTO DRAIN PART NUMBER 4233-56 RF; LONG METAL BOWL ASSY EMI AUTO DRAIN; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	TUR	V1	EA	20	40
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656071	REGULATOR FLTR:EXCELON;AL;0.3 -10 BAR	REGULATOR, FILTER: TYPE: EXCELON; BODY MATERIAL: ALUMINIUM; INLET PRESSURE: 0.3-10 BAR; OUTLET PRESSURE: 0.3-10 BAR; CONNECTION: PTF 1/2 IN; MEDIA FOR WHICH DESIGNED: COMPRESSED AIR; MANUF P/N: B73G-4AK-QD1-RMN; ADJUSTMENT KNOB; MANUAL 1/4 TURN DRAIN; METAL WITH LIQUID LEVEL INDICATOR BOWL; RELIEVING DIAPHRAGM; ELEMENT 5 MICRO METER; WITHOUT A PRESSURE GAUGE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	TUR	V1	EA	3	6
656427	HEAD:LIMIT SWITCH;SQ 33 MM;AL	HEAD: TYPE: LIMIT SWITCH; DIMENSIONS: SQ 33 MM; MATERIAL: ALUMINIUM; MANUF P/N: ZCKE65	0	V1	EA	100	200

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656428	HEAD:LIMIT SWITCH ARM;SQ 33 MM;METAL	HEAD: TYPE: LIMIT SWITCH ARM; DIMENSIONS: SQ 33 MM; MATERIAL: METAL; MANUF P/N: ZCKY14; LIMIT SWITCH LEVER ZCKY14 STEEL BALL BEARING ROLLER LEVER FOR USE IN CONJUNCTION WITH ZCKE05 LIMIT SWITCH HEAD	C&I	V1	EA	10	20
659047	POSITIONER VLV:FLUID;1.4-6.9 BAR;I/P 24	POSITIONER, VALVE: TYPE: FLUID; SUPPLY PRESSURE: 1.4-6.9 BAR; INPUT: 24 VDC; SUPPL P/N: SVI2-21113121; PNEUMATIC TRAIN: SINGLE ACTING; COMMUNICATION: HART 4-20MA; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	C&I	V1	EA	6	12
659188	LOAD CELL FRC WT:10-17-4;500 KG;TENSION	LOAD CELL, FORCE WEIGHT: TYPE: S-TYPE WEIGHBRIDGE; CAPACITY: 500 KG; MOUNTING: TENSION; OEM P/N: 10-17-4; 3MV/V; FOR USE ON RAMSEY SERIES 10-17 WEIGHBRIDGE; SAFE OVERLOAD TO 150% OF LOAD CELL CAPACITY	MAP	V1	EA	4	8

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659201	SENSOR:INDUCTIVE PROXIMITY;1.5 MM;FLUSH	SENSOR: TYPE: INDUCTIVE PROXIMITY; RANGE: 1.5 MM; RATING: 7.7-9 V DC; ELECTRICAL CONNECTION: M12 X 1 CONNECTOR; MOUNT: FLUSH; PROBE DIAMETER: M12; MANUF P/N: BHS0034-BES-516-300- S266-S4; 1 TO 4 MA; IP68; 4 POLE; A CODED; FOR RECLAIMERS OSCILLATING CYLINDER ULTIMATE; HOUSING MATERIAL SS (1.4104); EXPLOSION PROTECTION EX 11 2 G EX IA IIC T6 GB; MAX PRESSURE RATING 500 BAR; ASSURED OPRATING DISTANCE 1.1MM; ITEM TO CONTAIN A PRE- INSTALLED SEALING RING, DIMENSIONS 53 X 2.4 MM; FOR COAL RECLAIMERS	COA	V1	EA	3	6
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660418	SWITCH PRESS:DUCT/PIPE;- 0.2 TO 10 BAR;10	SWITCH, PRESSURE: TYPE: DUCT/PIPE; RANGE: -0.2 TO 10 BAR; POTENTIAL: 400 V; CURRENT: 10 A; ACTION: SPDT; CONNECTION: R3/8 MALE IN; CONTACT ARRANGEMENT: 1NC 1NO; POWER: 12 W; DIMENSIONS: WD 130 X LEG 130 X HT 70 MM; APPLICATION: FIREWATER BOOSTER PUMP; CLASSIFICATION: NON HAZARDOUS; ENCLOSURE RATING: IP54; MANUF P/N: P48AAA-9130; REFERENCE NO: PENN9130	FIW	V1	EA	4	8
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660472	SWITCH LVL:FLOAT AND LATCHES;-40 TO 177	SWITCH, LEVEL: METHOD OF ACTUATION: FLOAT AND LATCHES; RANGE: -40 TO 177 DEG C; POTENTIAL: 150 V; CURRENT: 1 A; POWER: 25 W; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; APPLICATION: FIRE WATER HEAD TANKS; CLASSIFICATION: EX D 11 C T6 GB; MANUF P/N: MLS- 3EX; FALLING LEVEL ALARM RED - B(NC); GREEN - C YELLOW(NC); IA CERTIFICATES REQUIRED WITH DELIVERY; RANGE TO BE CHANGED BY LOASSENING CLAMPS AND SLIDING SWITCH TO DESIRE ALARM LEVEL	C&I	V1	EA	4	8
660544	REGULATOR PRESS:DIAPHRAGM;4 0 BAR;8 BAR	REGULATOR, PRESSURE: TYPE: DIAPHRAGM; INLET PRESSURE: 40 BAR; OUTLET PRESSURE: 8 BAR; CONNECTION: G 1/2; BODY MATERIAL: BRASS; MANUF P/N: U11; CONNECTION: INTERNAL THREADS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	TGN	V1	EA	6	12

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661301	RELAY:GP;24 VDC;2CO;10 A;DPDT;PLUG IN	RELAY: TYPE: GENERAL PURPOSE; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 2CO; CONTACT RATING: 10 A; ACTION: DPDT; TERMINAL: 8 QUICK CONNECT TERMINALS; MOUNT: PLUG IN; ENCLOSURE RATING: IP20; CONTACT MATERIAL: AG NI; MANUF P/N: 55.32.9.024.0040; 8 PIN; FOR USE ON US 1 &2 HPU	COA	V1	EA	2	4
663470	SENSOR:INCLINATION ;-15 TO 15 DEG C	SENSOR: TYPE: INCLINATION; RANGE: -15 TO 15 DEG C; RATING: 10-30 V DC; ELECTRICAL CONNECTION: CABLE GLAND; MOUNT: 4 BOLTS; DIMENSIONS: WD 84 X LG 156 X HT 80 MM; SPECIFICATION: E63076; MANUF P/N: AM0233PG-0-21-5P32; DUAL AXIS; BUS COVER WITH MOUNTING PLATE 99 X 60 MM; PROFIBUS-DP; ASH STACKER	MAP	V1	EA	2	4

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663471	ENCODER:ABSOLUTE ROTARY;IP66;DIA 60 MM	ENCODER: TYPE: ABSOLUTE ROTARY; CLASSIFICATION: IP66; SIZE: DIA 60 MM; POTENTIAL: 10-30 VDC; CURRENT: 50-115 MA; POWER: 1.5 W; SPECIFICATION: DIN EN 61000-6-4; MANUF P/N: OCD- DPC1B-1212-C10S-H3P; MOUNTED LENGTH 70MM; CE + CULUS LISTED	MAP	V1	EA	2	4
663791	SWITCH PRXMY:MAGNETIC;2.5 MM;24 VDC;3 A	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 2.5 MM; POTENTIAL: 24 VDC; CURRENT: 3 A; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 24VDC 3A; DIMENSIONS: M18 X LG 70 MM; APPLICATION: ASH STACKER; CLASSIFICATION: NON HAZARDOUS; MANUF P/N: 74M-13528-A40; 18 GAUGE; 220 FT LEAD WIRES; FERROUS METAL 2.5 MM; AMS4 STRIKER 9 MM	MAP	V1	EA	2	4

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663804	SWITCH PRXMY:MAGNETIC;10 MM;24 VDC;3 A	SWITCH, PROXIMITY: TYPE: MAGNETIC; SENSING RANGE: 10 MM; POTENTIAL: 24 VDC; CURRENT: 3 A; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; CONTACT RATING: 24VDC 3A; APPLICATION: ASH STACKER; CLASSIFICATION: NON HAZARDOUS; SPECIFICATION: ATEX; MANUF P/N: 21-11328-A40; FERROUS METAL 10MM; AMS4 STRIKER 35MM; 18 GAUGE; 220 FT LEAD WIRES	MAP	V1	EA	3	6
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664265	THERMOSTAT:TEMPERATURE SENSING CONTROL	THERMOSTAT: TYPE: TEMPERATURE SENSING CONTROL; RANGE: -10 TO 80 DEG C; POTENTIAL: 110-250 VAC; CURRENT: 10 A; DIMENSIONS: WD 29 X HT 68 X DP 45 MM; MANUF P/N: TRT-10A230V-NC; CONTACT OPEN ON RISE TO CONTROL HEATERS; BI-METALLIC TEMPERATURE SENSING ELEMENT; 2 SCREW TERMINALS FOR 2 CONDUCTORS; SNAP-ON FIXING ON PROFILE RAIL - MOUNTING METHOD; ENCLOSURE MATERIAL PLASTIC UL94V-0; STANDARD COLOUR IS GREY RAL 7032	C&I	V1	EA	2	4
664707	SWITCH LMT:250-400 V;2.8 A;DPST;1NO 1NC	SWITCH, LIMIT: POTENTIAL: 250-400 V; CURRENT: 2.8 A; ACTION: DPST; ACTUATOR: SNAP ACTION; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: PLASTIC; CONTACT RATING: 10 A; ENCLOSURE RATING: IP66; MANUF P/N: AP-AM5-Z11; AP SERIES (PLASTIC); AM4 GLAND ENTRY; Z11 SNAP ACTION; T HEAD TYPE	C&I	V1	EA	2	4

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664818	SWITCH LMT:500 V;10 A;DPST;1NC 1NO;IP67	SWITCH, LIMIT: POTENTIAL: 500 V; CURRENT: 10 A; ACTION: DPST; ACTUATOR: ZCE01 ROTARY HEAD; CONTACT ARRANGEMENT: 1NC 1NO; ENCLOSURE: IP67; CONTACT RATING: 240V 3A; DIMENSIONS: WD 31 X HT 65 X DP 30 MM; APPLICATION: CONVEYOR MOVING HEAD; ENCLOSURE RATING: IP67; SPECIFICATION: IEC/EN 60947-5-1; MANUF P/N: ZCD21; ZCE01, ZCY45, ZCDEP20; CONSIST OF ZCD21 BODY, ZCE01 HEAD, ZCY45 LEVER AND ZCDEP20 CABLE GLAND ENTRY; TYPE OSISENSE XC	MAP	V1	EA	3	6
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664822	SWITCH:MICRO;24 VDC;10.1 A;NO;SPST	SWITCH: TYPE: MICRO; POTENTIAL: 24 VDC; CURRENT: 10.1 A; CONTACT ARRANGEMENT: NO; ACTION: SPST; MOUNT: 2 X M3 BOLT; APPLICATION: ASH TRIPPER TRAVEL DRIVE BRAKE LIMIT; SPECIFICATION: IEC 60529; MANUF P/N: MZW1.122.088.913; D72218 WILDBERG; OPERATING FORCE 3-5 IN; TRAVEL 0.5 TO 1.1MM; OVER TRAVEL 1MM; MOVEMENT DIFFERENTIAL 0.05 TO 0.3MM; MECHANICAL LIFE 30 MILLION CYCLES	MAP	V1	EA	20	40
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665891	SWITCH LMT:500 V;10 A;DPST;PLUNGER;IP 67	SWITCH, LIMIT: POTENTIAL: 500 V; CURRENT: 10 A; ACTION: DPST; ACTUATOR: PLUNGER; CONTACT ARRANGEMENT: 1NC/1NO; ENCLOSURE: IP 67; CONTACT RATING: 240V 3A; DIMENSIONS: WD 31 X HT 65 X DP 30 MM; APPLICATION: AUTO LUBRICATION CYCLE; ENCLOSURE RATING: IP67; SPECIFICATION: IEC/EN 60947-5-1; MANUF P/N: XCKP21H0P16+ZCPEP20; M18 PLUNGER HEAD AND ZCDEP20 CABLE GLAND ENTRY; INCLUDING XCKP21H0P16 BODY; TYPE OSISENSE XC	MAP	V1	EA	9	18
667340	RELAY:GP;24 VDC;2NO 2NC;8 A;DPDT;PLUG IN	RELAY: TYPE: GENERAL PURPOSE; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 8 A; ACTION: DPDT; TERMINAL: 8 BLADE TERMINAL; PLUG IN; ENCLOSURE RATING: RT II; CONTACT MATERIAL: AGNI; MANUF P/N: 46.52.9.024.0040	MAP	V1	EA	4	8

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667341	SWITCH LMT:500 V;10 A;DPST;1 NC 1 NO	SWITCH, LIMIT: POTENTIAL: 500 V; CURRENT: 10 A; ACTION: DPST; ACTUATOR: ZCE01 ROTARY HEAD; CONTACT ARRANGEMENT: 1 NC 1 NO; ENCLOSURE: IP67; CONTACT RATING: 240 V 3 A; DIMENSIONS: WD 31 X HT 65 X DP 30 MM; APPLICATION: AUTO LUBRICATION LIM; ENCLOSURE RATING: IP67; SPECIFICATION: IEC/EN 60947-5-1; MANUF P/N: ZCD21, ZCE01, ZCY18, ZCPEP20; INCLUDING ZCD21BODY, ZCE01 HEAD, ZCY18 LEVER AND ZCDEP20 CABLE GLAND ENTRY; TYPE OSISENSE XC	MAP	V1	EA	4	8
667346	SWITCH PRESS:ELECTROMCHANICAL;1.5-35 BAR	SWITCH, PRESSURE: TYPE: ELECTROMCHANICAL; RANGE: 1.5-35 BAR; POTENTIAL: 500 V; CURRENT: 1.5 A; ACTION: SPDT; CONNECTION: G1/4 IN THD; CONTACT ARRANGEMENT: 1NO 1NC; DIMENSIONS: WD 35 X HT 75 X DP 113 MM; APPLICATION: ASH STACKER CRAWLER HPU; ENCLOSURE RATING: IP66; MANUF P/N: XMLA035A2S11	MAP	V1	EA	3	6

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668457	POSITIONER:ELECTR OPNEUMATIC	POSITIONER: TYPE: ELECTROPNEUMATIC; MATERIAL: DIE-CAST ALUMINIUM; MANUF P/N: 3730- 2; REFERENCE NO: 4100089; 3706256; INPUT 4-20 MA; SUPPLY MAX 7 BAR/105PSI; POSITION INDICATOR O/P -4 TO 20 MA OC; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	C&I	PD	EA	10	20
671030	SWITCH LMT:300 V;10 A;2;ROLLER PLUNGER	SWITCH, LIMIT: POTENTIAL: 300 V; CURRENT: 10 A; ACTION: 2; ACTUATOR: ROLLER PLUNGER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP67; ENCLOSURE RATING: IP67; SPECIFICATION: IEC 529; MANUF P/N: MJ-7102	C&I	V1	EA	15	30

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671059	SENSOR:INDUCTIVE;1 0 MM;8.2 V DC;2 WIRE;2	SENSOR: TYPE: INDUCTIVE; RANGE: 10 MM; RATING: 8.2 V DC; ELECTRICAL CONNECTION: 2 WIRE; MOUNT: THREADED; DIMENSIONS: LG 44 MM; SPECIFICATION: EX II 2 G EEX IA IIC T6; CABLE LENGTH: 2 M; MANUF P/N: BI10-G30-Y1X; THREADED BARREL M30 X 1.5; MOUNTING CONDITIONS FLUSH; TO INCLUDE TWO OFF SENSOR COUPLING NUTS; APPROVAL TO KEMA 02 ATEX 1090X; T7 AND T8 ON COAL PLANT	COA	V1	EA	15	30
671071	SWITCH PRESS:POTTER ACTUATED;27-137 KPA	SWITCH, PRESSURE: TYPE: POTTER ACTUATED; RANGE: 27-137 KPA; POTENTIAL: 125-250 VAC; CURRENT: 15 A; ACTION: (2) SPDT; CONNECTION: 1/2 NPT MALE; CONTACT ARRANGEMENT: SPDT; DIMENSIONS: DIA 152 X HT 178 MM; APPLICATION: FIRE WATER SYSTEM; CLASSIFICATION: HAZARDOUS EX DIIB T6; ENCLOSURE RATING: IP66; MANUF P/N: PS10-EXF; IA CERTIFICATE REQUIRED WITH ITEM; TEMPERATURE RATING -40 TO 60 DEG C	FIW	V1	EA	2	4

CONTROLLED DISCLOSURE

672040	SWITCH LMT:500 V;10 A;DPST;ROLLER LEVER	SWITCH, LIMIT: POTENTIAL: 500 V; CURRENT: 10 A; ACTION: DPST; ACTUATOR: ROLLER LEVER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP66; APPLICATION: CABLE REEL TENSION SWITCH; ENCLOSURE RATING: IP66; MANUF P/N: E400-00-CM; SIDE ACTUATION; SNAP ACTION	COA	V1	EA	7	14
673804	REGULATOR FLTR:YT200 AN11;ALUMINIUM;1.7	REGULATOR, FILTER: TYPE: YT200 AN11; BODY MATERIAL: ALUMINIUM; INLET PRESSURE: 1.7 MPA; OUTLET PRESSURE: 0.42-0.84 MPA; CONNECTION: 1/4 NPT IN; MEDIA FOR WHICH DESIGNED: AIR; AIR FILTER REGULATOR YT200 AN11 FOR USE ON TURBINE START-UP LINE (TAL) CCI 840H WATER INJECTION CONTRL VALVES LBH10 AA002; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	TUR	V1	EA	3	6

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673809	SWITCH PRESS:ELLAY-600- 002-311-11;0.3-2	SWITCH, PRESSURE: TYPE: ELLAY-600-002-311-11; RANGE: 0.3-2 BAR; POTENTIAL: 24 VDC; CURRENT: 0.5-2 AMP; ACTION: 1/1 MICROSWITCH; CONNECTION: CONNECTOR PG9 DIN 175301-803; CONTACT ARRANGEMENT: NO; APPLICATION: CCI 100D DRAG VALVE ACTUATION; ENCLOSURE RATING: IP00 DIN 40 050; PRESSURE SWUTCH ELLAY-600-002-311-11) FOR USE ON BOILER FREEDPUMP MINIMUM FLOW VALVES (LAB31/32/33 AA002) HYDRAULIC ACTUATION PRESSURE SWITCH CONNECTOR PG9 DIN 175301-803, OPTIONALLY WITH ROUND PLUG M12X1	FWS	V1	EA	2	4
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673830	SWITCH PRESS:ANODISED PRESSOSTATIC HEAD	SWITCH, PRESSURE: TYPE: ANODISED PRESSOSTATIC HEAD; RANGE: 1-5 BAR; POTENTIAL: 24 VDC; ACTION: 1/1; CONNECTION: 1/8"NPTF; CONTACT ARRANGEMENT: 1 CHANGEOVER CONTACT; APPLICATION: VLC-280BTCS ACTUATION; PRESSURE SWITCH (PRESSOSTATIC HEAD) FOR USE ON TURBINE START-UP (TAL) CCI VLB-280BTCS (LBH10 AA001) VALVES	TUR	V1	EA	3	6
675008	SWITCH LMT:230 V;6 A;SPDT;C;1NO 1NC	SWITCH, LIMIT: POTENTIAL: 230 V; CURRENT: 6 A; ACTION: SPDT; ACTUATOR: C; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: METAL; CLASSIFICATION: SNAP ACTION; SUPPL P/N: E40000CM; LIMIT SWITCH;E400-00CM;IEC 947-5-1; VDE 0660; AC15 6A/230V; UI500V; UIMP 6KV IP66	COA	V1	EA	10	20

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675769	SWITCH:TEMP SWITCH CAPACITY: 250 VAC;9-6	SWITCH: TYPE: OIL LEVEL AND TEMPARATURE COMBINATION SWITCH; POTENTIAL: TEMP SWITCH CAPACITY: 250 VAC; CURRENT: 9-6 A; CONTACT ARRANGEMENT: NO; ACTION: MULTIPLE; MOUNT: 4 BOLT MOUNTED; APPLICATION: RECLAIMER CROSS CONVEYOR HPU OIL TANK; SPECIFICATION: OLTS- 01; FLOAT MATERIAL: STAILESS STEEL, FLOAT HEIGHT: 35.34MM; FLOAT DIAMETER: 37.47MM; SWITCH HEAD MATERIAL: ALUMINIUM; SWITCH PROBE TYPE: STRAIGHT PROBE DESIGN; ENCLOSURE RATING: IP65; LEVEL SWITCHING CURRENT: 0.3A; TEMPARATURE SWITCH MINIMUM CURRENT; 50MA; TEMPARATURE SWITCHING CAPACITY: 250V:2.5A; PROBE LENGTH: 350MM; UNIT TO HOUSE 5 DIFFERENT SWITCHING OPTIONS; SWITCH 1:N/A; SWITCH 2: 240MM FROM BOTTOM OF FLANGE; SWITCH 3: NA; SWITCH 4 (TEMP 1): N/A; SWITCH 5 (TEMP): 70 DEGREES CELSIUS	COA	V1	EA	1	2
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682143	SWITCH TEMP:25-90 DEG C;220 V;0.05 A;12	SWITCH, TEMPERATURE: RANGE: 25-90 DEG C; POTENTIAL: 220 V; CURRENT: 0.05 A; CONTACT ARRANGEMENT: SPST; POWER: 12 W; CLASSIFICATION: 21/22; SUPPL P/N: RT101; MAX AMPIET TEMPARATURE: 70 DEGREES C ; MAX TEMPARATURE OF SENSOR: 300 DEGREE C; ADJUSTMENT VIA MAIN SCALE AND DIFFERENTIAL KNOBS	COA	V1	EA	1	2
682136	SWITCH PRESS:ELECTROMECHANICAL;30-500	SWITCH, PRESSURE: TYPE: ELECTROMECHANICAL; RANGE: 30-500 BAR; POTENTIAL: 120-250 V; CURRENT: 1.5 A; ACTION: DPST; CONNECTION: G1/4 IN BSP FEMALE; CONTACT ARRANGEMENT: 1NO 1NC; DIMENSIONS: DIA 75 X HT 113 X LG 35 MM; APPLICATION: HYDRAULIC OIL; CLASSIFICATION: ZONE 21/22; ENCLOSURE RATING: IP66; SUPPL P/N: XMLA500D2S11; RANGE: OSISENSE XM; USED ON MEDUPI T2 COAL FEEDERS HPU SYSTEM PRESSURE	COA	V1	EA	4	8

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684821	RELAY CTRL:690 V;1NO 3NC;24/230/400/690	RELAY, CONTROL: CONTACT RATING: 690 V; CONTACT ARRANGEMENT: 1NO 3NC; COIL VOLTAGE: 24/230/400/690 V; ACTION: (4) SPST; MOUNT: SCREW ON; TERMINAL: SCREW; ENCLOSURE RATING: IP20; TYPE: AUXILIARY SWITCH BLOCK; SUPPL P/N: 3RH1911-1GA13	C&I	V1	EA	30	60
684823	RELAY CTRL:0.8-0.4 V;1NO 1NC;SPDT;5 AGNI	RELAY, CONTROL: CONTACT RATING: 0.8-0.4 V; CONTACT ARRANGEMENT: 1NO 1NC; COIL VOLTAGE: 6-240 VAC; 5-125 VDC; ACTION: SPDT; MOUNT: PUSH-IN; TERMINAL: 5 AGNI; ENCLOSURE RATING: RT II; TYPE: MINIATURE; SUPPL P/N: 40.51.9.024.0000	C&I	V1	EA	30	60
684824	RELAY CTRL:250 V DC;1NO 1NC;24 VDC;4PDT	RELAY, CONTROL: CONTACT RATING: 250 V DC; CONTACT ARRANGEMENT: 1NO 1NC; COIL VOLTAGE: 24 VDC; ACTION: 4PDT; MOUNT: PLUG; TERMINAL: PUSH-IN; ENCLOSURE RATING: NEMA 6; TYPE: NON-LATCHING; SUPPL P/N: 55.34.9.024.0040	C&I	V1	EA	30	60

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684832	DIODE:BRIDGE;1 N 4007;0.56 W;250 VAC;0.7	DIODE: TYPE: BRIDGE; INDUSTRY STANDARD: 1 N 4007; POWER: 0.56 W; POTENTIAL: 250 VAC; CURRENT: 0.7 A; CONNECTION: M3 SCREW; SPECIFICATION: ECLSS, ETIM, UNSPSC; 2950048; SUPPL P/N: EMG 22-DIO 4E	C&I	V1	EA	30	60
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693344	SWITCH LMT:10-30 VDC;200 MA;SOLID STATE	SWITCH, PROXIMITY: TYPE: INDUCTIVE; SENSING RANGE: 2.5 MM; POTENTIAL: 10-30 VDC; CURRENT: 200 MA; ACTION: PNP; CONTACT ARRANGEMENT: MAGNETIC SOLID STATE; MANUF P/N: QM/132/2; SPECIFICATION:MODEL QM/132/2 WITH 2M CABLE; CABLE TYPE PVC 3 X 0,5MM; RATING: IP66; OPERATING TEMPERATURE: -20 DEGC +80 DEGC; APPLICATION: FOR USE WITH PNEUMATIC CYLINDER MECHANICALLY OPERATED SWITCHES; ENCLOSURE: PLASTIC; POWER: 6 W; ENCLOSURE RATING: IP66; CLASSIFICATION: WD15 X LG35 X HT20 MM; SPECIFICATION: DIN 40050; INDUCTIVE PROXIMITY SWITCH FOR USE WITH PNEUMATIC CYLINDER; TYPE QM/132; LIMIT SWITCH ACTUATOR SEAL GAP ADJUSTING; BODY MATERIAL PLASTIC; OPERATION; PNP OPEN COLLECTOR OUTPUT WITH LED (YELLOW); PROTECTION RATING: IP66 (DIN 40050)	C&I	V1	EA	108	216
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699136	RELAY:SWITCHING;24 VDC;SINGLE RELAY;CUL	RELAY: TYPE: SWITCHING; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: SINGLE RELAY; CONTACT RATING: 6 AMP; ACTION: 1 CHANGEROVER CONTACT; TERMINAL: CUL; MOUNT: ANY MOUNTING POSITION; ENCLOSURE RATING: RT III; CONTACT MATERIAL: AGSNO; HARD GOLD- PLATED; SPECIFICATION: DIN EN 50178; OEM P/N: 2961121; 48K3 SWITCHING RELAY; FOR USE ON VORECON LAC11/12/13 AP010 MK01	C&I	V1	EA	6	12
699929	SWITCH PRESS:BLOCKED FILTER;115 V;1 A;15	SWITCH, PRESSURE: TYPE: BLOCKED FILTER; RANGE: WORKING 0-2; MAX: 7 BAR; POTENTIAL: 115 V; CURRENT: 1 A; ACTION: SPST; CONNECTION: G1/2; CONTACT ARRANGEMENT: 1NO 1NC; POWER: 15 VA; DIMENSIONS: 81 X 79 MM; APPLICATION: MEDUPI DRUM RECLAIMER HPU RETURN LINE FILTER; ENCLOSURE RATING: IP65; OEM P/N: VR 2 LE.1	C&I	V1	EA	6	12

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no material number	ASSY:ELECTRONIC; PCA SVI2 POSITIONER; MASONEILAN	ASSEMBLY: TYPE: ELECTRONIC; SPECIFICATION: ELECTRONIC ASSY PCA SVI2 ROHS COMPLIANT; APPLICATION: MASONEILAN SVI 2 AP-21123121 POSITIONER; OEM P/N: 720004208-999-1601; REFERENCE: C322095280	C&I	V1	EA	12	14
700217	POSITIONER VLV:DIGITAL LINEAR;100 PSIG	POSITIONER, VALVE: TYPE: DIGITAL LINEAR; SUPPLY PRESSURE: 100 PSIG; INPUT: 4-20 MA; SUPPL P/N: SVI 2 AP-21123121; LINEAR 0-100PCT; DIGITAL VALVE POSITIONER; IP66 PER EN 60529 WITH 6-12MM CABLE GLAND ELECTRICAL CONNECTION FOR USE ON MASONEILAN ER8788 PNEUMATIC SPRING DIAPHRAGM SPRING DIAPHRAGM ACTUATOR (LCH51/52/61/62 AA001/002); VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	CTS	V1	EA	12	14

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700954	SWITCH PRESS:TWO VALVE MANIFOLD;15 +/-10	SWITCH, PRESSURE: TYPE: TWO VALVE MANIFOLD; RANGE: 15 +/-10 BAR; POTENTIAL: 480 VAC; CURRENT: 3 AMPS AT 480 VAC; ACTION: SPDT; CONNECTION: 1/4 INCH NPT; CONTACT ARRANGEMENT: M20 X 1.5; CONTACT RATING: 2 X SPDT CONTACTS; ENCLOSURE RATING: IP65; SPECIFICATION: PED 97/23 EC; OEM P/N: E1H-H-250- P4; GAUGE BOARD MOUNTED WITH TWO VALVE MANIFOLD ; FOR USE ON VORECON LAC11./12/13 CP301; REF NO: TCR.206.00991810	FWS	V1	EA	6	12
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700974	REGULATOR PRESS:REDUCING;21 5 PSI;5-100	REGULATOR, PRESSURE: TYPE: REDUCING; INLET PRESSURE: 215 PSI; OUTLET PRESSURE: 5-100 PSI; CONNECTION: 1/4 IN; BODY MATERIAL: ALUMINIUM; OEM P/N: 78-40; 78-40 SERIES PRESSURE REGULATOR FOR USE ON FEEDWATER PNEUMATIC ACTUATORS (LCH, LBG) SUCH AS LCH51 AA001; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	FWS	V1	EA	8	16
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706784	SWITCH LMT:500 V;10 A;2 C/O;IP65;240V 3A	SWITCH, LIMIT: POTENTIAL: 500 V; CURRENT: 10 A; ACTION: 2 SP CO SNAP ACTION; ACTUATOR: XCRZ901 ROLLER WITH LEVER; CONTACT ARRANGEMENT: 2 C/O; ENCLOSURE: IP65; CONTACT RATING: 240V 3A; DIMENSIONS: WD X 85 X HT 95 X DP 53 MM; APPLICATION: BELT MAGNET ALIGNMENT; ENCLOSURE RATING: IP65; SPECIFICATION: IEC/EN 60947-5-1; OEM P/N: XCRT115; TYPE: OSISENSE XC; TIPPING ANGLE 10 DEGREE FOR ALARM AND 18 DEGREE FOR TRIPPING ANGLE +- 90 DEGREE	COA	V1	EA	3	6
715567	HOSE FLEX MTL:5 MM;LG 400 MM;M16X2 MM	HOSE, FLEXIBLE METAL: HOSE SIZE: 5 MM; LENGTH: 400 MM; CONNECTION SIZE: M16X2 MM; CONNECTION TYPE: BOLTED FLANGE; MATERIAL: POLYAMIDE; RATING: 630 BAR; SUPPL P/N: SMA3-400; DRAWING NO: B114103-01-06-YI01-00009-00	C&I	V1	EA	200	400

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719917	SWITCH PRXMY:INDUCTIVE;0 TO 5 MM;200 MA	SWITCH, PROXIMITY: TYPE: INDUCTIVE; SENSING RANGE: 0 TO 5 MM; POTENTIAL: 12 TO 30 V; CURRENT: 200 MA; ACTION: 1 PHASE; CONTACT ARRANGEMENT: SINGLE CONTACT NORMALLY OPEN; CONTACT RATING: 200 MA; DIMENSIONS: DIA 18 X LG 56 MM; CONNECTION: CABLE 3 WIRE; APPLICATION: VALVE POSITION; CLASSIFICATION: IEC 60947-5-2; SUPPL P/N: BES0083 BES M18MI- PSC50B-BV03; CABLE DIAMETER: 4.6 MM; CABLE LENGTH: 3 METER	C&I	V1	EA	15	30
722020	POSITIONER VLV:6 BAR;I/P 4-20 MA	POSITIONER, VALVE: TYPE: SMART ELECTRP PNUEMATIC POSITIONER; SUPPLY PRESSURE: 6 BAR; INPUT: 4-20 MA; OEM P/N: SMART POSTIONER FOR DP32 ACTUATOR; SMART ELECTRO PNUEMATIC POSITIONER,DIRECLTY MOUNTED TO THE DP32 ACTUATOR; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	FUL	V1	ONE	5	10

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722846	REGULATOR PRESS:AIR MAINTENANCE DEVICE	REGULATOR, PRESSURE: TYPE: AIR MAINTENANCE DEVICE; INLET PRESSURE: 0.4-4.8 BAR; OUTLET PRESSURE: 0.4-4.8 BAR; CONNECTION: NPT 1/2IN; BODY MATERIAL: MALLEABLE IRON; MANUF P/N: P/N 52-324-2-002; MODEL AMD-1 AUTOMATIC AIR MAINTENANCE DEVICE WITH FIELD ADJUSTABLE PRESSURE REGULATOR; DATASHEET REQUIRED WITH DELIVERY; FM APPROVED, UL AND CUL LISTED USED FOR PREACTION FIRE VALVE DV-5; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	FIW	V1	EA	2	4
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744542	SNSR SPD:NJ10-30GM50-E2-V1;4-20 MA;10-60	SENSOR, SPEED: TYPE: KFU8-UFC-1.1 WITH INDUCTIVE; MEASUREMENT RANGE: 4-20 MA; VOLTAGE RATING: 10-60 V; CURRENT RATING: 0-200 MA; POWER RATING: 0-12 KW; CONNECTION SIZE: M12X1 MM; CONNECTION TYPE: DEVICE CONNECTOR M12X1,4 PIN; MOUNTING METHOD: MOUNTING FLANGE 30MM; ENCLOSURE RATING: IP67; DIMENSIONS: M30X1.5 MM; MATERIAL: STAINLESS STEEL 1.4305/AISI 303; CLASSIFICATION: IP67; SPECIAL FEATURES: INDICATION OF THE SWITCH STATE LED YELLOW,SWITCHING FREQUENCY 0-650HZ; SPECIFICATION: SENSING FACE PBT, PTOTECTION DEGREE IP67; STANDARD: EN 60947-5-2:2007 ,IEC 60947-5-2:2007; OEM P/N: NJ10-30GM50-E2-V1; KFU-UFC-1.D WITH INDUCTIVE SENSOR NJ10-30GM50-E2-V1	C&I	V1	EA	10	20
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no material number	GAH Radial / Axial seal limit switch mounting brackets	BRACKET: TYPE: BRACKET; MATERIAL: STEEL; DIMENSIONS: 0.02 KG; SPECIFICATION: NORGREN SWITCH MOUNTING BRACKETS ID NR 619437 USED TOGETHER WITH MAGNETIC LIMIT SWITCH QM/132; APPLICATION: USED ON THE GAS AIR HEATER RADIAL & AXIAL PNEUMATIC SEAL VALVE CYLINDER LIMIT SWITCHES; OEM P/N: QM/31/160/22	C&I	V1	EA	108	216
no material number	Cable accesory for inductive sensors used on the PA fans & Water cannons	CABLE: TYPE: PLUG CONNECTOR CABLE; PEPPERL&FUCHS FEMALE CORDSET, PUR CABLE; APPLICATION: USED ON PEPPERL&FUCHS PROXY SENSORS WITH V1 MALE CONNECTORS; LENGTH: 2 METRE; CONNECTOR SIZE: M12; 4-PIN WITH 4 WIRES (BROWN; WHITE; BLUE; BLACK COLOURS); OEM MODEL NR: V1-W-2M-PUR; OEM P/N: 109437; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	C&I	V1	EA	10	20

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no material number	Clean & Raw gas damper limit switch	SWITCH: TYPE: POSITION; POTENTIAL: 24 VDC; CURRENT: 4 A; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: DPDT; APPLICATION: ACTUATORS; SPECIFICATION: EN 50041; MANUF P/N: Z4V7H 332- 11Y-M20-2138; IP67; CABLE ENTRY M20 X 1.5	C&I	V1	EA	10	20
684825	LBY31/32 HP Bypass safety valves	RELAY: TYPE: GENERAL PURPOSE; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: 2NO 2NC; CONTACT RATING: 8 A; ACTION: DPDT; TERMINAL: 8 BLADE TERMINAL; PLUG IN; ENCLOSURE RATING: RT II; CONTACT MATERIAL: AGNI; MANUF P/N: 40.52.9.024.0000	C&I	V1	EA	10	20
no material number	ID fan DP Filter Pressure switch	SWITCH, PRESSURE: TYPE: ELECTRONIC; PRESSURE SETTING RANGE: 0-5 BAR; POTENTIAL: 24 V; CONNECTION: THD G 1/2 IN; CONTACT RATING: 5A; MAXIMUM SWITCHING VOLTAGE: 230V 60W, 100VA; OPERATING PRESSURE: 210 BAR; APPLICATION: ID FAN OIL DP FILTERS; ENCLOSURE RATING: IP65; P/N: VM 5 C.0	C&I	V1	EA	10	20

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no material number	PJFF Dampers	SWITCH, LIMIT: POTENTIAL: 500 V; CURRENT: 10 A; ACTION: 2; ACTUATOR: SNAP ACTION ROLLER LEVER; TYPE: SPST; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP67; ENCLOSURE RATING: IP67; SPECIFICATION: OMRON WL SNAP ACTION ROLLER LEVER LIMIT SWITCH; MANUF P/N: WLCA12-Y-N	C&I	V1	EA	10	20
no material number	Turbine Lube oil purification Unit Flow switch	SWITCH, FLOW: DESCRIPTION: FLOW SWITCH SIKA VHS05; MATERIAL: STAINLESS STEEL SP-3610; POTENTIAL: 24...48VDC ; CURRENT: 1 A; PRESSURE RATING: PN 25 USE FOR DIRECT INSTALLATION IN DN50...DN150 PIPES; MAX TEMPERATURE: 110 DEGC; ACCESSORIES: PROCESS CONNECTION: G1/2 INCH MALE THREAD SS; POWER: MAX 20W; APPLICATION: TURBINE LUBE OIL PURIFICATION UNITS MAV92 CF311; ENCLOSURE RATING: IP65; SUPPL P/N: VHS05M03173R23; REFERENCE/ORDER NR: 117680	C&I	V1	EA	10	20

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no material number	Dome valve seal pressure switch mounting clips	CLAMP: TYPE: FESTO MOUNTING CLIP; MATERIAL: PLASTIC; SPECIFICATION: PENV-BGH-FESTO MOUNTING CLIPS FOR LED GH PRESSURE SENSORS / SWITCHES; PART NUMBER: 164597	C&I	V1	EA	10	20
no material number	Dome valve seal pressure switch cable connectors	CABLE: TYPE: PLUG CONNECTOR CABLE; SPECIFICATION: FESTO CONNECTOR CABLE FOR PRESSURE SWITCHES / SENSORS; APPLICATION: USED ON PJFF DUST HANDLING CONTROL PANELS; OEM P/N: FESTO SIM-M8-4WD-5-PU	C&I	V1	EA	10	20

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638459	Pressure switch used on the BFP Vorecon drive	SWITCH, PRESSURE: TYPE: D2T-M80SS; RANGE: 0.034-5,5 BAR; POTENTIAL: 24 VDC; CURRENT: 2 A; ACTION: -; CONNECTION: 1; CONTACT ARRANGEMENT: MICRO SWITCH WITH SILVER CONTACTS; CONTACT RATING: 250 VAC 10 A; APPLICATION: PRESSURE SWITCH USED ON BFP VORECON OIL SYSTEM LAC11/12/13 CP302/3; CLASSIFICATION: MATERIAL: STAINLESS STEEL; TEMPERATURE RANGE: -40 - 75 DEG C; SWITCHING RATE: MAX. 20/MIN; ENCLOSURE RATING: IP 65; SPECIFICATION: HOUSING: TOP PART ALUMINIUM POWDER COATED AND BOTTOM PART ALUMINIUM ANODIZED; MANUFACTURE: BARKSDALE; SERIAL NUMBER: K014682.1/ 001; MAX WORKING PRESSURE: 10,7 BAR; MANUF P/N: 0401-851	C&I	V1	EA	10	20
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644182	Vorecon Magnetic level switches	SWITCH, LEVEL: METHOD OF ACTUATION: MAGNETIC FLOAT SWITCH; RANGE: 1X NC; 1X NO; POTENTIAL: 230 VAC; CURRENT: 1 A; POWER: 60VA; 60 W; ACTION: THE MAGNET INSIDE THE FLOAT ACTIVATES THE REED SWITCH; CONTACT ARRANGEMENT: BISTABLE, CHANGE OVER CONTACT; 1X NO; 1X NC; DIMENSIONS: 100 X 17,2 MM; APPLICATION: USED ON THE VORECON WORKING LEVEL FOR BFP'S; ELECTRICAL CONNECTION: LIYY: GREY, Ø 5.8MM; CABLE CORES: 3 X 0,75MM²; CORE COLOURS: WH, BN, GN; CABLE TYPE LABEL: POLYESTER: SILVER, BLACK PRINTING; CABLE LENGTH: 5 M; ENCLOSURE: IP68; ENCLOSURE RATING: IP68 - 5BAR (EN 60529); SPECIFICATION: WEKA MAGNETIC SWITCH WITH 5M CABLE, CHANGE-OVER, BISTABLE; STANDARD, WITH PLASTIC CABLE GLAND; MATERIAL: STAINLESS STEEL 316 /316L;; CONTACT RATING: 230VAC; 1A; 60W; OEM P/N: WEKA 31160-NN/5	C&I	V1	EA	10	20
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0732032	SWITCH PRESS:INDUCTIVE;0.1 5 to 12 BAR;48	SWITCH, PRESSURE: TYPE: DIAPHRAGM; RANGE: 0,2...2 BAR; POTENTIAL: 250 VAC; CURRENT: 4 A; ACTION: CHANGEOVER; CONNECTION: ELECTRICAL: PLUG DIN 43650-A; PROCESS CONNECTION SIZE: G1/8B MALE THREAD ISO228-1 STANDARD; CONTACT ARRANGEMENT: 1X NO; 1X NC; CHANGE OVER CONTACT; CONTACT RATING: 250 VAC; APPLICATION: PRESSURE SWITCH USED ON CEP PUMPS OIL SYSTEM; CLASSIFICATION: OIL; ENCLOSURE RATING: IP 65; SPECIFICATION: DIAPHRAGM TYPE PRESSURE SWITCH; MATERIAL: STEEL; SEALING: NBR; WEIGHT: 0,15KG; OPERATING TEMPERATURE: -20..+80 DEGC; MEDIUM: OIL; OEM P/N: PH1-002S004A0BN	C&I	V1	EA	12	24
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no material number	Thermostat controller used on PJFF Hopper heaters	THERMOSTAT: TYPE: TEMPERATURE SENSING CONTROL; RANGE: 20 TO 400 DEG C; POTENTIAL: 230 VAC; CURRENT: 8(1,5)~16(3)A; MANUF P/N: VARTN: 60/60002120; F-NR: 016636120101207; SPECIFICATION: JUMO TYPE EM-2 - 602021/0002; APPLICATION: USED ON THE PJFF HOPPER HEATERS	C&I	V1	EA	10	20
no material number	Plug in Relay 14 oin 4 C/O 24VDC, 6A with bipolar LED	RELAY: TYPE: MINIATURE RELAY PT; COIL VOLTAGE: 24 VDC; CONTACT ARRANGEMENT: CHANGE OVER CONTACT, 4X NO 4X NC; CONTACT RATING: 250 V AC; CONTACT CURRENT RATING: 6A; ACTION: DC COIL WITH BIPOLAR LED; TERMINAL: 14 PIN PLUG IN; MOUNT: PLUG INTO TERMINAL BLOCK; ENCLOSURE RATING: IEC 61810 - RTII FLUX PROOF; CONTACT MATERIAL: AGNI 90/10, WITH TEST BUTTON; OEM P/N: SCHRACK PT570L24	C&I	V1	EA	10	20

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no material number	90 Degree Roller Plunger Micro Limit Switch	SWITCH, LIMIT: POTENTIAL: 250 VAC; CURRENT: 10 A; ACTION: SPDT; ACTUATOR: 90 DEGREE ROLLER PLUNGER MICRO SWITCH; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP65 STANDARD EN60947-5-1; APPLICATION: FIRE WATER BOOSTER PUMP ISOLATING VALVES; MANUF P/N: ME-7312; REFERENCE: 00SGA33 AA201; ALL TENDERS/QUOTES TO BE ACCOMPANIED BY APPLICABLE DATA SHEETS AND/OR DRAWINGS OF ITEM(S) TENDERED ON; TENDERS WITHOUT DATA SHEETS AND/OR DRAWINGS WILL BE REJECTED	C&I	V1	EA	6	12
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no material number	Omron High temperature basic limit switch contact with a hinge lever used on the LBC cold reheat condensing pot level switches (SPDT action; 1xNO; 1xNC)	SWITCH, LIMIT: POTENTIAL: 250 VAC; CURRENT: 9 A; ACTION: CERAMIC PUSH BUTTON; ACTUATOR: HINGE LEVER; CONTACT ARRANGEMENT: SPDT; ENCLOSURE: IP00; CONTACT RATING: 9 A; SPECIFICATION: HIGH TEMPERATURE BASIC SWITCH TZ; APPLICATION: USED ON COLD REHEAT LEVEL POTS; SUPPL P/N: TZ-1GV; OMRON LIMIT SWITCH	C&I	V1	EA	10	20
636882	BOX:SPLITTER;WD 37 MM;LG 75 MM;53 MM;STL	BOX: TYPE: SPLITTER; WIDTH: 37 MM; LENGTH: 75 MM; DEPTH: 53 MM; MATERIAL: STL; COLOR: GREEN; SUPPL P/N: 60846; REFERENCE NO: 35.75 & 37.5; 004.0600; FOR WATER CANNONS; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	BBG	V1	EA	3	6

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