

## PART 3: SCOPE OF WORK

<b>Document reference</b>	<b>Title</b>	<b>No of pages</b>
	This cover page	1
C3.1	<i>Purchaser's Goods Information</i>	
C3.2	<i>Supplier's Goods Information</i>	
	Total number of pages	

## C3.1: *PURCHASER'S* GOODS INFORMATION

### Contents

<b>Part 3: Scope of Work</b> .....	<b>1</b>
<b>C3.1: <i>Purchaser's</i> Goods Information</b> .....	<b>2</b>
<b>1 Overview and purpose of the <i>goods</i> and <i>services</i></b> .....	<b>3</b>
<b>2 Specification and description of the <i>goods</i></b> .....	<b>3</b>
2.1 The Eskom technical specifications and requirements for Breakers and Switches .....	3-21
<b>3 Supply Requirements</b> .....	<b>21</b>
<b>4 Constraints on how the <i>Supplier</i> Provides the Goods</b> .....	<b>21</b>
4.1 Constraints at the delivery place and place of use .....	21
4.2 Services & other things to be provided by the <i>Purchaser</i> or <i>Supplier</i> .....	22
4.3 Management meetings .....	22
4.4 Documentation control .....	22
4.5 Health and safety risk management .....	22_23
4.6 Environmental constraints and management .....	23
4.7 Quality .....	24
4.8 Invoicing and payment .....	24
4.9 Insurance provided by the <i>Purchaser</i> .....	25
<b>C3.2 <i>Supplier's</i> Goods Information</b> .....	<b>26</b>

## 1 Overview and purpose of the goods and services

Supply and Delivery of Breakers and Switches on an “as-and-when” required basis at Kendal Power Station.

Different types of breakers and switches are specified in the document Scope of Work 32-4 Rev 6 document, and they must be delivered as specified.

## 2 Specification and description of the goods

The Eskom technical specifications and requirements for Breakers and Switches is attached below:

**TABLE 1: BREAKERS**

MATERIAL DESCRIPTION	MATERIAL NUMBER	QUANTITY
BREAKER, CIRCUIT: POTENTIAL: 230/400 VAC; CURRENT: 6 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: AS N133791; NON STANDARD IDENTIFICATION AND SPECIFICATION REQUIREMENTS	0004777	50
BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 30 A; POLE: 1; TYPE: MINIATURE MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; REFERENCE NO: SA1G3, UNK; PHYSICAL SIZE	0004779	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 20 A; POLE: 1; TYPE: MINIATURE HYDRAULIC MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; REFERENCE NO: SA1G3, UNK; BREAKER, CIRCUIT; TYPE MINITURE HYDRAULIC MAGNETIC, POTENTIAL 240 V, POLE 1, CURRENT 20 A, INTERRUPT CAPACITY 2.5 KA, REFERENCE NO: SA1G3~BREAKER,CIRCT;SA1G3,20 A,240 V,1	0004780	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 40 A; POLE: 1; TYPE: MINIATURE MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; REFERENCE NO: SA1G3, UNK; PHYSICAL SIZE	0004781	50
BREAKER, CIRCUIT: POTENTIAL: 220/380 VAC; CURRENT: 10 A; POLE: 2; WIDTH: 59 MM; LENGTH: 80 MM; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 6 KA; REFERENCE NO: 5SQ22, UNK; 4 CONTACTS, 34.5MM THK	0004795	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 10 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: Q5SP; USED ON BBT SF6, TYPE ELK4 765KV GIS	0004873	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 10 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 3 KA; SUPPL P/N: SAG3	0004874	50
COUPLING: TYPE: DRIVE; SIZE: ID 6 X OD 6 MM; MATERIAL: AL; SUPPL P/N: 8UC6011; FOR SIEMENS DOOR; ROTARY OPERATING MECHANISM	0108698	50
COUPLING: TYPE: DRIVE; SIZE: ID 8 X OD 8 MM; MATERIAL: AL; SUPPL P/N: 8UC6012; FOR SIEMENS DOOR, ROTARY OPERATING MECHANISM	0108699	50
COUPLING: TYPE: DRIVE; MATERIAL: AL; SUPPL P/N: 8UC6013; FOR SIEMENS DOOR ROTARY OPERATING MECHANISM; SIZE 10 MM ID X 10 MM OD	0108700	50

COUPLING: TYPE: DRIVE; SIZE: ID 12 X OD 12 MM; MATERIAL: AL; SUPPL P/N: 8UC6014; FOR SIEMENS DOOR, ROTARY OPERATING MECHANISM	0108701	50
SWITCH, DISCONNECT: TYPE: LOADBREAK; POTENTIAL: 660 VAC; CURRENT: 630 A; ACTION: (3) DPST; OPERATED: GANG; MOUNT: HORIZONTAL; SUPPL P/N: 3KL6130-1AB00; ISOLATOR	0117869	50
SWITCH, DISCONNECT: TYPE: LOADBREAK; POTENTIAL: 600 VAC; CURRENT: 125 A; ACTION: DPST; OPERATED: GANG; MOUNT: HORIZONTAL; SUPPL P/N: 3KM5230-1AB00; ISOLATOR PLUG IN FUSE, 3PH	0117870	50
SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 690 V; CURRENT: 250 A; ACTION: 3PST; OPERATED: GANG; MOUNT: HORIZONTAL; REFERENCE NO: 5SNO7125, UNK; SUPPL P/N: 3KM5530-1AB00; PLUG IN FUSE; 3PH LOADBREAK	0117871	50
SWITCH, DISCONNECT: TYPE: LOADBREAK; POTENTIAL: 690 V; CURRENT: 400 A; ACTION: DPST; OPERATED: GANG; MOUNT: HORIZONTAL; SUPPL P/N: 3KM5730-1AB001; PLUG IN FUSE, 3PH	0117872	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 70 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA	0119437	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 60 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF3G3C1, UNK	0119438	50
SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; CURRENT: 60 A; ACTION: 3PST; MOUNT: PANEL; REFERENCE NO: A72/465AZ, UNK; CONTACT ARRANGEMENT 3NO	0119439	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 10 A; POLE: 2; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: S202M-C10; ABB ONLY	0119440	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 25 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA	0119452	50
BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 80 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; MODEL NO: SF18280, UNK; REFERENCE NO: 97-82210, UNK; WHITE HANDLE	0119475	50
BREAKER, CIRCUIT: POTENTIAL: 220 VAC; CURRENT: 4 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: 5SN1304/ 4G41188	0119515	50
BREAKER, CIRCUIT: POTENTIAL: 220/380 VAC; CURRENT: 10 A; POLE: 1; TYPE: THERMAL MAGNETIC; REFERENCE NO: 16G101291, UNK; SUPPL P/N: 5SX2110-7/ 16G101291	0119516	50
BREAKER, CIRCUIT: POTENTIAL: 230/400 VAC; CURRENT: 16 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 3 KA; SUPPL P/N: 5SN1316 / 15G163984	0119517	50
BREAKER, CIRCUIT: POTENTIAL: 400 V; CURRENT: 6 A; POLE: 2; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 15 KA; SUPPL P/N: 5SN2306	0119518	50
BREAKER, CIRCUIT: POTENTIAL: 480 VAC; CURRENT: 10 A; POLE: 3; TYPE: THERMAL MAGNETIC; REFERENCE NO: 08G105187, UNK; 5SN3310, UNK	0119519	50
BREAKER, CIRCUIT: POTENTIAL: 230/400 VAC; CURRENT: 1 A; POLE: 1; TYPE: THERMAL MAGNETIC; REFERENCE NO: 5SN1301, UNK; 5SN1701, UNK	0119520	50
BREAKER, CIRCUIT: POTENTIAL: 380 VAC; CURRENT: 0.4-0.63 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT	0119524	50

CAPACITY: 100 KV; SUPPL P/N: 3VE1010-2E		
BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 15 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: C45M11LTI9, UNK	0119545	50
BREAKER, CIRCUIT: POTENTIAL: 220 VAC; CURRENT: 2 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: S16CURVEG; FOR COAL PLANT SPARES	0119557	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 5 A; POLE: 1; TYPE: MINIATURE HYDRAULIC MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; SUPPL P/N: SA1G3	0119562	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 15 A; POLE: 1; TYPE: MINIATURE HYDRAULIC MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; REFERENCE NO: SA1G3-15A, UNK	0119563	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 25 A; POLE: 1; TYPE: MINIATURE HYDRAULIC MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; REFERENCE NO: SA1G3-25A, UNK	0119564	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 35 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; SUPPL P/N: SA1G3-35A	0119565	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 45 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; SUPPL P/N: SA1G3-45A	0119566	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 50 A; POLE: 1; TYPE: MINIATURE; INTERRUPT CAPACITY: 2.5 KA; REFERENCE NO: SA1G3-50A, UNK	0119567	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 35 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF1G3-35A	0119568	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 45 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF1G3-45A	0119569	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 10 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA	0119570	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 35 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF3G3-35A	0119571	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 45 A; POLE: 3; TYPE: MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF3G3-45A, UNK; SUPPL P/N: QF3(19)	0119572	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 50 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA	0119573	50
BREAKER, CIRCUIT: POTENTIAL: 440 VAC; CURRENT: 75 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 20 KA; TYPE LY603	0119574	50
BREAKER, CIRCUIT: POTENTIAL: 440 VAC; CURRENT: 100 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 20 KA; SUPPL P/N: LY603	0119575	50
BREAKER, CIRCUIT: POTENTIAL: 440 VAC; CURRENT: 125 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 20 KA; SUPPL P/N: LY603	0119576	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 25 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; TYPE Q5SP	0119577	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 35 A;	0119578	50

POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; TYPE Q5SP		
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 40 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: Q5SP40A, UNK	0119579	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 10 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: 12AD010EE, UNK; OA FM, 07018-2086	0119584	50
BREAKER, CIRCUIT: POTENTIAL: 460 VAC; CURRENT: 25 A; POLE: 3; TYPE: THERMAL MAGNETIC; REFERENCE NO: CF3Y69, UNK; MAIN	0119585	50
BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 10 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; CATALOGUE NO: 21291; TYPE IPC45 MCB	0119586	50
BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 20 A; POLE: 1; TYPE: THERMAL MAGNETIC CURVE U; INTERRUPT CAPACITY: 5 KA; CATALOGUE NO: C45120; SUPPL P/N: C45; MULTI 9	0119587	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 63 A; POLE: 3; TYPE: THERMAL MAGNETIC; CATALOGUE NO: 25006; REFERENCE NO: 3P C63H, UNK; C63H, UNK; MULTI 9	0119588	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 32 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; CATALOGUE NO: 21309; SUPPL P/N: C45 AD; MULTI 9	0119589	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 2.5 A; POLE: 1; REFERENCE NO: G16A, UNK; 16AMP, 50HZ, ON MAIN AIR HEATER I R SCAN DRIVE, 5SQ11AIR HEATER AUXILLARY SYSTEM	0119594	50
BREAKER, CIRCUIT: POTENTIAL: 250 VAC; 65 VDC; CURRENT: 10 A; POLE: 1; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: GWE323907, UNK	0119606	50
BREAKER, CIRCUIT: POTENTIAL: 250 VAC; 65 VDC; CURRENT: 1.5 A; POLE: 1; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: GWE287789, UNK	0119607	50
BREAKER, CIRCUIT: POTENTIAL: 415 VAC; CURRENT: 3 A; POLE: 2; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: 5SX5203-7/5SX9100; WITH AUXILIARY CONTACT	0119608	50
BREAKER, CIRCUIT: POTENTIAL: 415 VAC; CURRENT: 4 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: 5SN71040KB30	0119609	50
BREAKER, CIRCUIT: POTENTIAL: 230/400 V; CURRENT: 2 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: 5SX 2102-7/5SX 9100; 1NO AND 1NC	0119615	50
BREAKER, CIRCUIT: POTENTIAL: 240/415 VAC; CURRENT: 10 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 6 KA; REFERENCE NO: SX21107, UNK; SINGLE LEVER, 1 N/O 1 N/C	0119616	50
BREAKER, CIRCUIT: POTENTIAL: 240 VAC; 250 VDC; CURRENT: 50 A; POLE: 2; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: TEB1220-50WL	0119617	50
BREAKER, CIRCUIT: POTENTIAL: 120-240 V; CURRENT: 5 A; POLE: 1; TYPE: THERMAL MAGNETIC; SUPPL P/N: 209-1-1-61F-4-7 -5	0119618	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 10 A; POLE: 2; TYPE: THERMAL MAGNETIC; REFERENCE NO: TEB1220-10WL, UNK	0119619	50

BREAKER, CIRCUIT: POTENTIAL: 120/220 VAC; CURRENT: 5 A; POLE: 1; TYPE: THERMAL MAGNETIC; SUPPL P/N: 209-1-1-61F3-7- 5	0119620	50
BREAKER, CIRCUIT: POTENTIAL: 125 VDC; CURRENT: 5 A; POLE: 1; TYPE: THERMAL MAGNETIC; SUPPL P/N: 219-1-1-51F-1-7-5	0119621	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 10 A; POLE: 1; TYPE: THERMAL MAGNETIC; SUPPL P/N: 209-1-1-61F4-7; 50/60HZ, FOR FUEL SUPPLY SYSTEM	0119622	50
BREAKER, CIRCUIT: POTENTIAL: 65 V; CURRENT: 5 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 6.25 A; SUPPL P/N: 219-1-1-51F-1-7-5	0119623	50
BREAKER, CIRCUIT: POTENTIAL: 380 VAC; 440 VDC; CURRENT: 1 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: 5SN92010KB30, UNK; N TYPE UC, 1N/O 1N/C, G CHARACTER, ITEM 50123	0119642	50
BREAKER, CIRCUIT: POTENTIAL: 380 VAC; 440 VDC; CURRENT: 6 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: 5SN92060KB30, UNK; N TYPE UC, 1N/O AND 1N/C, G CHARACTER, ITEM 50125	0119643	50
BREAKER, CIRCUIT: POTENTIAL: 380 VAC; 220 VDC; CURRENT: 1 A; POLE: 1; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: 5SN91010KB30, UNK; N TYPE UC, 1N/O 1N/C, G CHARACTER, ITEM 015 501122	0119647	50
BREAKER, CIRCUIT: POTENTIAL: 380 VAC; 440 VDC; CURRENT: 2 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; SUPPL P/N: 5SX5 202-7; N TYPE UC MINI, G CHARACTER, CONFIRMED JOHN BOY 17/03/1997	0119648	50
BREAKER, CIRCUIT: POTENTIAL: 380 VAC; 440 VDC; CURRENT: 16 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; DRAWING NO: N-TYPE VC REV 1; REFERENCE NO: 5SN9216-0KB30, UNK; G CHARACTER, 1 N/O 1N/C, ITEM 50126	0119649	50
BREAKER, CIRCUIT: POTENTIAL: 220-240 VAC; 220 VDC; POLE: 1; REFERENCE NO: 005, UNK; OPJ51021, UNK; 3WX2313, 40-60HZ, MOTOR OPERATING MECHANISM, GENERATOR VOLTAGE REGULATOR	0119650	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 16 A; POLE: 2; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; SUPPL P/N: S212DCK16; 220V DC BOARD	0119656	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 10 A; POLE: 2; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 2.5 KA; SUPPL P/N: S282UC-K10; FOR 220 VOLT STATION DC BOARD	0119657	50
BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 32 A; POLE: 1; TYPE: MINIATURE THERMAL MAGNETIC; FOR UNIT 1 DC BOARD, BBC	0119658	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 10 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 10 KA; SUPPL P/N: 7K10; 9168E	0119659	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 1 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: S162K1; ON UNIT 1 DC BOARD BBC	0119660	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 6 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: S212DCK6, UNK; S212UC, UNK; FOR 220 VOLT STATION DC BOARD	0119664	50

BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 6 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: S212UC00511, UNK	0119665	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 15 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: Q518215Q5	0119667	50
BREAKER, CIRCUIT: POTENTIAL: 415 VAC; CURRENT: 20 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; FUCHS, Q518220	0119668	50
BREAKER, CIRCUIT: POTENTIAL: 440 VAC; CURRENT: 10 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: E538210 EQ5	0119669	50
BREAKER, CIRCUIT: POTENTIAL: 440 VAC; CURRENT: 30 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; FUCHS, E538230 EQ5	0119670	50
BREAKER, CIRCUIT: POTENTIAL: 440 VAC; CURRENT: 40 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; FUCHS, E538240 EQ5	0119671	50
BREAKER, CIRCUIT: POTENTIAL: 525 VAC; CURRENT: 150 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 15 KA; SUPPL P/N: F15D1	0119675	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 16 A; POLE: 2; TYPE: THERMAL MAGNETIC; SUPPL P/N: 5SX4216-7RC	0119680	50
BREAKER, CIRCUIT: POTENTIAL: 380 VAC; CURRENT: 20 A; POLE: 3; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: 5SL3320, UNK; 2 POLE	0119681	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 10 A; POLE: 2; TYPE: MINIATURE THERMAL MAGNETIC; REFERENCE NO: 5SL8210-0KA30, UNK; WITH 1 N/O AUXILLARY CONTACT	0119682	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 32 A; POLE: 3; TYPE: THERMAL MAGNETIC CURVE K; STOTZ, WITH ONE N/C AND ONE N/O AUXILIARY CONTACTS	0119684	50
BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 2 A; POLE: 1; TYPE: THERMAL MAGNETIC; REFERENCE NO: GHS2127271V164, UNK; S210-HS, 5A, 1A, K2A	0119685	50
BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 1.6 A; POLE: 1; TYPE: THERMAL MAGNETIC; REFERENCE NO: GHS2117251VO, UNK; K1.6A, 1S+10	0119686	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 630 A; POLE: 3; TYPE: MOTORIZED; INTERRUPT CAPACITY: 30 KA; SUPPL P/N: NF630-CS; FOR ASH SPREADER MAIN INCOMMER, FITTED WITH 220V UNDER VOLTAGE TRIP COIL AND 1 N/O AND 1 N/C AUX CONTACTS, CONTROL VOLTAGE 110V AC	0119692	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 32 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: C45332, UNK	0119700	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 63 A; POLE: 3; TYPE: THERMAL MAGNETIC; REFERENCE NO: 20576, UNK; MERLIN GERIN	0119701	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 100 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 10 KA; REFERENCE NO: 20578, UNK	0119703	50
BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 10 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF1G3, UNK	0119823	50
BREAKER, CIRCUIT: POTENTIAL: 415 VAC; CURRENT: 30 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT	0119825	50

CAPACITY: 5 KA; SUPPL P/N: SF1G3		
BREAKER, CIRCUIT: POTENTIAL: 380-240 V; CURRENT: 40 A; POLE: 1; TYPE: MINIATURE THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF1G3; ORANGE HANDLE	0119826	50
BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 5 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF1G3, UNK	0119859	50
BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 50 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF1G3	0119860	50
BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 60 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; REFERENCE NO: SF1G3, UNK; SUPPL P/N: 97-82209	0119861	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 100 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF3G3; COMPLETE WITH SHROUD CLIP TRAY AND SCREWS	0119862	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 80 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF3G3; COMPLETE WITH THERMO PLASTIC SHROUD SCREWS AND CLIP TRAY	0119863	50
BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 20 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF1G3	0120110	50
BREAKER, CIRCUIT: POTENTIAL: 415 VAC; CURRENT: 30 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA	0120111	50
BREAKER, CIRCUIT: POTENTIAL: 240 VAC; CURRENT: 15 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA	0120112	50
BREAKER, CIRCUIT: POTENTIAL: 415 VAC; CURRENT: 40 A; POLE: 3; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: SF3G340A; ORANGE HANDLE	0120113	50
BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 70 A; POLE: 1; TYPE: HYDRAULIC/MAGNETIC; INTERRUPT CAPACITY: 5 KA	0120114	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 15 A; POLE: 1; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 5 KA	0120130	50
BREAKER, CIRCUIT: POTENTIAL: 415 V; CURRENT: 100 A; POLE: 3; TYPE: THERMAL MAGNETIC; CATALOGUE NO: 15092; REFERENCE NO: 3PI, UNK; SWITCH, ISOLATING, MULTI 9	0121086	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 32 A; POLE: 2; TYPE: THERMAL MAGNETIC; REFERENCE NO: 3PI, UNK; CATN015011, UNK; ISOLATING, MULTI 9	0121087	50
SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; SUPPL P/N: 3KL5230-1AB0Q; ON CURRENT TRANSFORMER FAN A/B GENERAL CONNECTIONS	0121142	50
SWITCH, DISCONNECT: TYPE: FUSED; POTENTIAL: 600 VAC; CURRENT: 220 A; ACTION: DSPT; MOUNT: PANEL; SUPPL P/N: AFQC200DP; CONTACT ARRANGEMENT 2NO	0121337	50
SWITCH, DISCONNECT: TYPE: FUSED; POTENTIAL: 250/500 VAC; CURRENT: 63 A; REFERENCE NO: 5SG7-130-3A, UNK; AFQC 63 TP / 5SG7-130-3A, UNK; SAFETY, QUAD BREAK; 3 POLE; 3PH	0121339	50
SWITCH, DISCONNECT: TYPE: ISOLATOR; POTENTIAL: 4/5-	0121340	50

1 KV; CURRENT: 500 A; ACTION: 3PST; OPERATED: LEVER; MOUNT: PANEL; SUPPL P/N: OETL400D1		
BREAKER, CIRCUIT: POTENTIAL: 250 V; CURRENT: 63 A; POLE: 2; TYPE: THERMAL MAGNETIC; REFERENCE NO: 4489AF, UNK	0124039	50
BREAKER, CIRCUIT: POTENTIAL: 220/380 VAC; CURRENT: 6 A; POLE: 3; TYPE: THERMAL MAGNETIC; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: S213K6A; STOTZ, CURVE WITH ONE N/C AND ONE N/O, AUXILIARY CONTACT	0125989	50
BREAKER, CIRCUIT: POTENTIAL: 220/380 VAC; CURRENT: 1.6 A; POLE: 3; TYPE: THERMAL MAGNETIC; REFERENCE NO: GHS2137251VO, UNK; SUPPL P/N: S210HS; S213K; STOTZ CONTACT	0125991	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 32 A; POLE: 3; TYPE: THERMAL MAGNETIC CURVE K; INTERRUPT CAPACITY: 25 KA; REFERENCE NO: S203-K32, UNK; S2C-5/H6R, UNK; S2C-H6R, UNK; STOTZ, WITH 1 N/C + 1 N/O AUXILIARY CONTACTS	0125992	50
BREAKER, CIRCUIT: POTENTIAL: 380 V; CURRENT: 1 KA; POLE: 3; TYPE: ASH TRIPPER CAR MAIN INCOMER; INTERRUPT CAPACITY: 50 KA; SUPPL P/N: CNP1000; CUTLER HAMMER	0126281	5
SWITCH, DISCONNECT: TYPE: FUSED; CURRENT: 63 A; SUPPL P/N: 3KM5030 - 1AB01; ON-LOAD; CSF DIN FUSE	0142142	600
SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; CURRENT: 125 A; SUPPL P/N: 3KM5230-1AJ01; SIEMENS ONLY; FUSED ON-LOAD	0142143	200
SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; SUPPL P/N: 3KL5230-1AG00	0142144	50
ISOLATOR: TYPE: FUSED; SUPPL P/N: 3KM5530-1AG00; ON-LOAD 250A; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0142145	50
SWITCH, DISCONNECT: TYPE: FUSED; POTENTIAL: 660 V; CURRENT: 160 A; OPERATED: LEVER; MOUNT: PANEL; SUPPL P/N: 3NP4030-0CA00; ACTION 3 POLE	0142234	50
SWITCH, DISCONNECT: POTENTIAL: 380 V; CURRENT: 10 A; SUPPL P/N: C26A202; FOR LUBE OIL PURIFIER ON BOILER FEED PUMP	0142247	50
SWITCH, DISCONNECT: POTENTIAL: 380 VAC; CURRENT: 25 A; SUPPL P/N: KG41B; 3 PHASE	0142248	50
ISOLATOR: TYPE: FUSED; APPLICATION: ON-LOAD DISCONNECTOR; POTENTIAL: 660 VAC; SUPPL P/N: 3KM30-1AB00; 380V BOARDS; 250 AMPVENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	0142250	150
SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; CURRENT: 250 A; SUPPL P/N: SMP250; 3 POLE; FOR UNIT 1 DC BOARD	0142338	50
SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; CURRENT: 100 A; SUPPL P/N: AFQC100DP; 2 POLE	0142339	50
SWITCH, DISCONNECT: TYPE: TWIN BLADE ISOLATOR; CURRENT: 1.25 KA; SUPPL P/N: 926-527; ASSEMBLY FOR IN-LINE V.C.B	0142560	50
SWITCH, DISCONNECT: TYPE: SIGNAL; SUPPL P/N: 55000-700; FIRE DETECTION	0172688	50
BREAKER, CIRCUIT: POTENTIAL: 240 V; CURRENT: 60 A; POLE: 1; TYPE: MINIATURE; INTERRUPT CAPACITY: 2.5 KA; SUPPL P/N: SC1G3; HEINEMANN	0173637	50

BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 50 A; TYPE: MINI; INTERRUPT CAPACITY: 2.5 KA; MANUF P/N: SAG3; REFERENCE NO: SA1G3	0173650	50
BREAKER, CIRCUIT: POTENTIAL: 220 V; CURRENT: 20 A; POLE: 2; TYPE: MINIATURE; INTERRUPT CAPACITY: 2.5 KA; REFERENCE NO: SA2GOG3, UNK; WITH 1 WHITE AND 1 GREEN	0173652	50
SWITCH, DISCONNECT: TYPE: ISOLATOR; POTENTIAL: 500 VAC; CURRENT: 60 A; REFERENCE NO: AC22, UNK; BOTTOM/TOP ENTRY; SILVER CONTACTS, 3 PHASE	0173698	70
BREAKER, CIRCUIT: POTENTIAL: 6.6 KV; CURRENT: 1.25 KA; POLE: 3; TYPE: VACUUM; INTERRUPT CAPACITY: 25 KA; SUPPL P/N: WL34473	0178603	20
BREAKER, CIRCUIT: POTENTIAL: 12 KV; CURRENT: 2.5 KA; POLE: 3; TYPE: VACUUM; INTERRUPT CAPACITY: 31.5 KA	0178605	20
BREAKER, CIRCUIT: POTENTIAL: 12 KV; CURRENT: 2.5 KA; POLE: 3; TYPE: VACUUM; INTERRUPT CAPACITY: 31.5 KA	0178606	20
BREAKER, CIRCUIT: POTENTIAL: 7.2 KV; CURRENT: 630 A; POLE: 3; TYPE: AIR; INTERRUPT CAPACITY: 25 KA; SUPPL P/N: 3AF1041-4JR886EA2	0179142	4
BREAKER, CIRCUIT: POTENTIAL: 415 VAC; 440 VDC; CURRENT: 10 A; POLE: 3; TYPE: MINIATURE; INTERRUPT CAPACITY: 5 KA; SUPPL P/N: S212-UC; ABB	0187445	30
BREAKER, CIRCUIT: POTENTIAL: 380-440 VAC; CURRENT: 1.25 KA; POLE: 3; TYPE: AIR MAGNETIC; INTERRUPT CAPACITY: 65 KA; SUPPL P/N: SP4236; D/O ACB 3P C/W 520 LSI TRIP, 800 TO 2000 AMP D/O CASSETTE, C/W SHUTTERS, 220/240 VAC 5 SEC CHARGING MOTOR OPRATOR, 208/250V AC/DC SHUNT TRIP COIL 2A/2B AUXILLIARY SWITCH, MAGNUM RACKING HANDLE, MRH001	0219095	30
SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; CURRENT: 160 A; SUPPL P/N: 3KM5330-1AJ01; SIEMENS ONLY; ON-LOAD	0224241	300
SWITCH, DISCONNECT: TYPE: FUSED ISOLATOR; POTENTIAL: 690 VAC; CURRENT: 400 A; ACTION: 3 PHASE; SUPPL P/N: 3KF4340-0MF11; ON-LOAD	0224242	800
BREAKER, CIRCUIT: POTENTIAL: 220 VAC; CURRENT: 6 A; POLE: 1; INTERRUPT CAPACITY: 6 KA; SUPPL P/N: MN106	0250374	50
BREAKER, CIRCUIT: POTENTIAL: 690 V; CURRENT: 50 A; POLE: 3; CLASSIFICATION: CL10; FRAME: S2; WIDTH: 55 MM; LENGTH: 144 MM; HEIGHT: 140 MM; TYPE: CURRENT LIMITING; MOUNT: SCREW TERMINAL; INTERRUPT CAPACITY: 50 KA; SUPPL P/N: 3RV1031-4HA10	0252920	50
SWITCH, DISCONNECT: TYPE: FUSED; POTENTIAL: 690 VAC; CURRENT: 630 A; ACTION: 3P; MANUF P/N: 3KL6130-1GB0	0501126	40
BREAKER, CIRCUIT: POTENTIAL: 1000 V; CURRENT: 20 A; POLE: 2; TEMPERATURE RATING: 35 DEG C; COLOR: WHITE; TYPE: PLC POWER SUPPLY; MOUNT: DIN RAIL; INTERRUPT CAPACITY: 20 A	0580323	50
BREAKER, CIRCUIT: POTENTIAL: 400 VAC; CURRENT: 1 A; POLE: 3; CLASSIFICATION: IP20; SPECIFICATION: IEC898/EN60898/DIN43880; FRAME: S1; TEMPERATURE RATING: -25 TO 55 DEG C; WIDTH: 70 MM; LENGTH: 68 MM; HEIGHT: 90 MM; COLOR: WHITE; TYPE: SWITCH; MOUNT: RAIL; INTERRUPT CAPACITY: 25 KA; MANUF P/N: GHS2830001R0217; MOUNT STANDARD PROFILE RAILS EN20022	0589943	50
BREAKER, CIRCUIT: POTENTIAL: 400 VAC; CURRENT: 3 A; POLE: 2; CLASSIFICATION: IP20; SPECIFICATION:	0589944	30

IEC898/EN60898/DIN43880; FRAME: S1; TEMPERATURE RATING: -25 TO 55 DEG C; WIDTH: 35 MM; LENGTH: 68 MM; HEIGHT: 90 MM; COLOR: WHITE; TYPE: SWITCH; MOUNT: RAIL; INTERRUPT CAPACITY: 25 KA; MANUF P/N: GHS2820001R0317; MOUNT IS STANDARD PROFILE RAILS EN50022; AUXILIARY CONTACT GHS2701916R0001		
BREAKER, CIRCUIT: POTENTIAL: 500 VAC; CURRENT: 125-250 A; POLE: 3; SPECIFICATION: IEC EN60947; FRAME: NZM3; TEMPERATURE RATING: -40 TO 80 DEG C; WIDTH: 140 MM; LENGTH: 166 MM; HEIGHT: 297 MM; COLOR: WHITE; TYPE: SWITCH; INTERRUPT CAPACITY: 500-2750 A; MANUF P/N: 3BHB019577R0250	0590709	40
BREAKER, CIRCUIT: POTENTIAL: 400 VAC; CURRENT: 25 A; POLE: 3; CLASSIFICATION: DIN43880; SPECIFICATION: IEC898/EN60898; FRAME: S1; TEMPERATURE RATING: -25 TO 55 DEG C; WIDTH: 70 MM; LENGTH: 68 MM; HEIGHT: 90 MM; COLOR: WHITE; TYPE: SWITCH; MOUNT: RAIL; INTERRUPT CAPACITY: 25 KA; MANUF P/N: GHS2830001R0517; STD PROFILE RAILS EN 50 022; 35X7.5	0590714	40
BREAKER, CIRCUIT: POTENTIAL: 230 V; CURRENT: 10-16 A; POLE: 2; SPECIFICATION: EN61009; TEMPERATURE RATING: -25 TO 40 DEG C; WIDTH: 36 MM; COLOR: WHITE; TYPE: SWITCH; INTERRUPT CAPACITY: 250 A; MANUF P/N: 2CCL462110E0104	0590720	40
BREAKER, CIRCUIT: POTENTIAL: 690 VAC; CURRENT: 50 A; POLE: 3; TEMPERATURE RATING: -20 TO 70 DEG C; WIDTH: 55 MM; LENGTH: 149 MM; HEIGHT: 140 MM; COLOR: WHITE; TYPE: N-RELEASE; MOUNT: SCREW OR RAIL; INTERRUPT CAPACITY: 50 KA/650 A; MANUF P/N: 3RV1331-4HC10	0612793	30
BREAKER, CIRCUIT: SWITCHGEAR DESIGN: METAL-CLAD; POTENTIAL: 22 KV; CURRENT: 1250 A; SHORT TIME CURRENT: 25 KA; POLE: 3; CONTROL VOLTAGE: 220 VDC; CREEPAGE: 300 MM; BASIC INSULATION LEVEL: 170 PEAK KV; INSULATION MATERIAL: GAS INSULATED; OPERATING CONTROL TYPE: MOTORIZED SPRING CHARGE; POLLUTION CLASS: 2; APPLICATION: FEEDER/INCOMER; CLASSIFICATION: ZONE 22; SPECIFICATION: IEC 62271-100; TEMPERATURE RATING: -25 TO 40 DEG; COLOR: RAL9003 SIGNAL WHITE; TYPE: SF6; MOUNT: PANEL; PHASE SPACING: 300 MM; INTERRUPT CAPACITY: 31.5 KA; SUPPL P/N: GCR-F4C12S2AIN; ECOFIT-TM.FC4-315	0674806	8

**TABLE 2: SWITCHES**

MATERIAL NUMBER	MATERIAL DESCRIPTION	QUANTITY
0121017	SWITCH, PROXIMITY: SENSING RANGE: 40 MM; POTENTIAL: 6-30 V; CURRENT: 500 MA; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; ON COAL PLANT; PART NO: 3SG3267-1BJ33,	50
0121023	SWITCH, PROXIMITY: POTENTIAL: 10-30 VDC; ACTION: DPST; CONTACT ARRANGEMENT: 1NO 1NC; CAPTIVE CLAMP MOUNT; USED ON THE METROFLEX DAMPERS; OPEN AND CLOSE AND HANDWHEEL LIMITS; PART NO: NBB20-L2-A2-V1	50

0121147	SWITCH, SELECTOR: OPERATED: KNOB; POSITION: 2; POTENTIAL: 380 V; CURRENT: 25 A; CONTACT ARRANGEMENT: 2NO 2NC; 2 POLE; 3 POSITION MOTOR A AND MOTOR B ON MAIN AIR HEATER LEAK CONTROL PANEL; PART NO: C26A221	50
0121197	SWITCH, PRESSURE: RANGE: 30-1000 KPA; POTENTIAL: 220 V; CURRENT: 15 A; ACTION: SPDT; CONNECTION: 1/4 IN-NPT; ENCLOSURE RATING: IP64; DRAWING NO: 01300; REFERENCE NO: A54H82C48; PART NO: 2.04.03	50
0121226	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 0.07-2.8 BAR; POTENTIAL: 120-600 V; ACTION: DPDT; CONNECTION: 1/4 IN-FNPT; ENCLOSURE RATING: IP66; SQUARE D; PART NO: GAWM-22	50
0121230	KIT, CONTACT: TYPE: LIMIT SWITCH; COUNTER CLOCK WISE ROTATION; PART NO: 11LS1-4C/8932	50
0121326	SWITCH, PUSHBUTTON: COLOR: GREEN; MATERIAL PLASTIC; PART NO: Z82BA3	50
0121356	SWITCH, PROXIMITY: TYPE: MAGNETIC; POTENTIAL: 12-24 VDC; CURRENT: 200 MA; SUPPL P/N: XS4P30PA340	50
0121359	SWITCH, PRESSURE: RANGE: 225 BAR; CONNECTION: 3/8 IN-NPT; DRAWING NO: 014420/H; REFERENCE NO: 02557259, UNK; ON 22KV COMPRESSOR PLANT	50
0121363	SWITCH, PRESSURE: RANGE: 0-34.2 BAR; CONNECTION: 1 IN-FNPT; DRAWING NO: 014420/H; REFERENCE NO: 02557279, UNK; SUPPL P/N: TYPE-F2833-63; FOR 22KV BREAKER	50
0121370	SWITCH, PRESSURE: RANGE: 0.5-25 BAR; POTENTIAL: 250 VAC; CURRENT: 10 A; ACTION: SPDT; CONNECTION: 1/2 IN-NPT; BIS; ITM.NO:2.04.03; REFERENCE NO: 2852;	50
0121371	SWITCH, PRESSURE: RANGE: 0.5-16 BAR; ITM.NO:2.04.03; PART NO: 2727	50
0121420	SWITCH, PRESSURE: RANGE: 0.3-0.41 BAR; 0-14.7 KPA; MAX 10 KPA; CONNECTION: 1/4 IN-FNPT; SUPPL P/N: 12NN-KA2-S1-BIB-TTYXX3	50
0121422	SWITCH, LIMIT: POTENTIAL: 480/600 VAC; 115/230 VDC; CURRENT: 10-5-4 A; ACTION: DPDT; ACTUATOR: PLUNGER; CONTACT ARRANGEMENT: 1NO 1NC; PILOT DUTY; MAXIMUM 10A-100-240 OR 480VAC 8A-115VDC	50
0121423	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 0.65-6.65 KPA; DIFF 32 MM/H; MAX 1 KPA; CONNECTION: 1/4 IN-FNPT; REFERENCE NO: 52NN-KA117-SI-BIB-TT-YY-X3, UNK; RANGE:1016-0-1016MM WC +6.65-6.65KPA;	50
0121425	SWITCH, PRESSURE: RANGE: 3-10 BAR; POTENTIAL: 250 VAC; CURRENT: 10 A; ACTION: SPDT; CONNECTION: 1/2 IN-NPT;	50
0121431	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 0-1.1/0-1.03 MPA; POTENTIAL: 380 VAC; CURRENT: 10 A; ACTION: SPDT; CONNECTION: 1/4 IN-FNPT; MAX CONDITION PRESS. 413KPA;	50
0121693	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 0-1.1/0-1.03 MPA; POTENTIAL: 380 VAC; CURRENT: 10 A; ACTION: SPDT; CONNECTION: 1/4 IN-FNPT; MAX CONDITION PRESS. 413KPA;	50
0123619	SWITCH, SELECTOR: OPERATED: KNOB; POSITION: 3; POTENTIAL: 380-660 VAC; CURRENT: 4 A; CONTACT ARRANGEMENT: 1NO 2NC;	50

0215065	SWITCH, PRESSURE: TYPE: WATER; RANGE: 0-1000 KPA; POTENTIAL: 48 V; CONNECTION: FLANGE; ENCLOSURE RATING: METAL; DANFOSS PRESSURE CONTROL ONLY; ACTION 2 WAY; PART NO: KP535,	50
0220915	SWITCH, PRESSURE: TYPE: WATER; RANGE: 0.28-5.5; PROOF 10 BAR; POTENTIAL: 480 VAC; 250 VDC; CURRENT: 3 A AC; 0.4 A DC; ACTION: SPDT; ENCLOSURE RATING: METAL; BARKSDALE ONLY; FOR USE WITH COOLING TOWER SECTOR LEVELS; LESS THAN LOW LOW; <LO LO; PART NO: DIT-M80SS, SUPPLIER: UNKNOWN; PART NO: 0401-224	50
0237169	SWITCH, PRESSURE: TYPE: WATER; RANGE: 0.28-5.5; PROOF 10 BAR; POTENTIAL: 480 VAC; 250 VDC; CURRENT: 3 A AC; 0.4 A DC; ACTION: SPDT; ENCLOSURE RATING: METAL; BARKSDALE ONLY; FOR USE WITH COOLING TOWER SECTOR LEVELS; LESS THAN LOW LOW; <LO LO; PART NO: DIT-M80SS	50
0614036	SWITCH, FLOW: MATERIAL: SS; POTENTIAL: 220 VAC; CURRENT: 1 A; RANGE: 0-25 M3/HR; ACTION: SPST; CONNECTION: 2 IN; ENCLOSURE: IP66; SPECIFICATION: FLS1; FI1;	50
0120891	SWITCH, SPEED: POTENTIAL: 600 VAC; CURRENT: 5 A; CALIBRATION: 281 RPM; PART NO: 60-23PSA,	50
0120892	SWITCH, PUSHBUTTON: COLOR: RED; FOR MAGNETIC SEPERATOR CONTROL, MATERIAL PLASTIC; REFERENCE NO: ZBE-102;	50
0120894	SWITCH: TYPE: TILT CONTROL; POTENTIAL: 230 VAC; CONTACT ARRANGEMENT: 2NO 2NC; ACTION: 4PDT; MOUNT: WALL; REFERENCE NO: 20-35, UNK; SUPPL P/N: 362; 47/62HZ	50
0121004	SWITCH, SELECTOR: OPERATED: KNOB; POSITION: 2; POTENTIAL: 220 V; CURRENT: 20 A; CONTACT ARRANGEMENT: 3NO 3NC; SUPPL P/N: BF11A222603; 3 POLE	50
0121224	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 0.7-2.8; PROOF 6.9 BAR; POTENTIAL: 120/600 V; CURRENT: 6 A; ACTION: DPDT; CONNECTION: FNPT 1/2 IN; ENCLOSURE RATING: IP66; CLASS 9012; SERIES C; PART NO: GAWM22/EB, SUPPLIER: UNKNOWN; PART NO: CS13-11-3-9,	50
0121311	SWITCH, PROXIMITY: TYPE: MAGNETIC; POTENTIAL: 18-30 V; CURRENT: 100 MA; DRAWING NO: 7305-18310; REFERENCE NO: A56K62A87	50
0121316	SWITCH, LIMIT: POTENTIAL: 380 V; CURRENT: 10 A; 4AMPS RESISTIVE; ON ASH SYSTEM; REFERENCE NO: XCK-P118;	50
0121414	SWITCH, PRESSURE: RANGE: 0.5-10 BAR; REFERENCE NO: 8147002186; PART NO: DCM10,	50
0121458	SWITCH, FLOW: RANGE: 0-400 LPH; ENCLOSURE: STL; REFERENCE NO: 569694;	50

0121660	SWITCH, PROXIMITY: SENSING RANGE: 25 MM; POTENTIAL: 10-30 VDC; CURRENT: 200 MA; CONTACT ARRANGEMENT: 1NO; CONNECTION: 4 WIRE LEAD; FLUSH MOUNT; RECTANGULAR; COMPLETE AS A UNIT WITH CABLE, PART NUMBER 35071 TYPE V1-G-2M-PVC 4X0.34 MM2 WIRES; EXTREME ADDITIONAL TEMPERATURE RANGE OF SENSOR COMPONENT 0-250 DEGREES C; 10 METER CABLE BETWEEN SENSOR AND AMPLIFIER WITH TEFLON INSULATION; PART NO: NCN25-F35-A2-250-V1, SUPPLIER: UNKNOWN; PART NO: 121990,	50
0123622	SWITCH, SELECTOR: OPERATED: KNOB; POSITION: S; POTENTIAL: 250 V; CURRENT: 15 A; TYPE: ONE LEVER INDUSTRIAL; 5 POLE; S POSITION; COLOUR: ORANGE ONLY; REFERENCE NO: 6261S-OR	50
0219860	SWITCH, PROXIMITY: POTENTIAL: 240 VAC; CURRENT: 300 MA; ACTION: SPST; CONTACT ARRANGEMENT: 1NC; VERTICAL MOUNT; PART NO: XS2-M30MB250	50
0234301	SWITCH: TYPE: MICRO; POTENTIAL: 240 VAC; CURRENT: 16 A; CONTACT ARRANGEMENT: 1NO 1NC; MOUNT: TWIN SCREW; ACTION SPDT; CONNECTION: SMALL SCREW AND WASHER; BODY SIZE: 49.3MM WD X 17.4MM THK; ACTUATOR HEIGHT ( FROM CENTRE OF FIXING HOLES TO TOP OF ACTUATOR: 15.9MM; HOLE SIZE 3.5MM; FIXING HOLES 25.4MM APART; ACTUATOR STYLE: PIN; APPLICATION: HP/LP LEVEL SWITCHES; PART NO: C6R06	50
0120886	SWITCH, LIMIT: ACTION: SPDT; ACTUATOR: ROLLER LEVER; CONTACT ARRANGEMENT: 1NO 1NC; CAM; REFERENCE NO: 3SJ1040-1A; REFERENCE NO: 3SJ1040-1AA	50
0121066	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 8-28; DIFF 0-15 BAR; POTENTIAL: 220/380 V; CURRENT: 16-10 A; CONNECTION: 1/4 IN-NPT; RANGE: 6-30 BAR; REFERENCE NO: 060-1171; REFERENCE NO: FFW 113/060-1171	50
0121240	SWITCH, PRESSURE: RANGE: 170-1900 KPA; POTENTIAL: 220 V; CONNECTION: 1/4 IN-FNPT; CONTACT ARRANGEMENT: 1NO 1NC; APPLICATION: SOOTBLOWER; ENCLOSURE RATING: IP66; PART NO: 6N3-K45	50
0121704	SWITCH, FLOW: POTENTIAL: 250 VDC; CURRENT: 0.5 A; SAMPLE; REFERENCE NO: 020-0255; PART NO: FS-4	50
0122285	SWITCH, SELECTOR: OPERATED: HAND; POSITION: 2; POTENTIAL: 600 V; CONTACT ARRANGEMENT: 1NO 1NC; TYPE: LOCAL/REMOTE; ACTION: DPDT; SPECIFICATION: BS 5419; ACTUATOR TEST, CLOSED ENCLOSURE	50
0120857	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 0.22-4; PROOF 12 BAR; POTENTIAL: 220 V; CURRENT: 16 A; ACTION: SPDT; CONNECTION: 3/8 IN-FNPT; ENCLOSURE RATING: IP55; FOR COUPLING 650SVN/650DTPKL; REFERENCE NO: FF4-4DAH	50
0121433	SWITCH, FLOW: MATERIAL: STL; RANGE: 0-20 LPM; CONNECTION: 1 IN-FNPT; SUPPL P/N: 620CILP3EES320CSS1D28BSP	50
0227454	SWITCH, PROXIMITY: POTENTIAL: 24 VDC; ACTION: DPST; CONTACT ARRANGEMENT: 1NO 1NC; SUPPL P/N: 187479; NCN25-F35-A2-250-V1; NCN25-F35-AZ-250-V1; BRACKET MOUNT, PEPPERL FUCHS ONLY	50

0250864	SWITCH, PRESSURE: RANGE: 0-8 BAR; POTENTIAL: 220 VAC; CURRENT: 10 A; ACTION: SPDT; CONTACT RATING: 250 VAC 10 A; DIMENSIONS: WD 103 X LG 116 X HT 68 MM; APPLICATION: FIRE DETECTION SYSTEM; ENCLOSURE RATING: IP67; PART NO: KPS 35	50
0251472	SWITCH, LEVEL: APPLICATION: COAL BUNKER LOW; REFERENCE NO: 40167-180; LB4710-180 MINI SWITCH 4TE	50
0500065	SWITCH, SELECTOR: POSITION: 2; POTENTIAL: 220-240 VAC; CURRENT: 20 A; CONTACT CONFIGURATION: ON/OFF; CONTACT ARRANGEMENT: 8NO 8NC; POWER: 2.5 KW; APPLICATION: HYDRASTEP SYSTEM; DIMENSIONS: WD 48 X LG 105 MM; MANUF P/N: ZA- D681	50
0120877	SWITCH, PUSHBUTTON: COLOR: YELLOW; MATERIAL PLASTIC; REFERENCE NO: 35B1000-0AD20	50
0121369	SWITCH, LIMIT: POTENTIAL: 380 VAC; CURRENT: 6 A; ACTION: SPDT; ACTUATOR: PLUNGER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP65; SUPPL P/N: ES411TF101S; FOR ISOLATING TORQUE LIMITERS	50
0121449	SWITCH, LIMIT: POTENTIAL: 600 V; ACTION: (2) SPST; ACTUATOR: DOUBLE WIRE LEVER; CONTACT ARRANGEMENT: 2NO; ENCLOSURE RATING: AL; CUTLER-HAMMER ONLY; FOR USE ON CONVEYORS; PART NO: CHW53197	50
0227455	SWITCH, PRESSURE: RANGE: 50 BAR; POTENTIAL: 24 VDC; ACTION: (2) SPDT; CONNECTION: 1/4 IN-NPT; ENCLOSURE RATING: IP65; FOR TRUNION LUBE OIL SET ON MILLS; SERIAL NO: 441 785 AZ 31 3 37450; PART NO: HED 30A 36/200,	50
0236582	SWITCH, PRESSURE: TYPE: AIR; RANGE: 17.2-241.3 BAR; 250-3500 PSI; POTENTIAL: 110 VAC; ACTION: SPDT; CONNECTION: 1/2 IN-NPT; ENCLOSURE RATING: IP65; SUPPL P/N: H 100 - 189; TI 905; USED ON UNIT 1 TO 6 SOOTBLOWER SYSTEM, H100	50
0238434	SWITCH, PRESSURE: TYPE: DIFFERENTIAL; RANGE: 105-700 KPA; POTENTIAL: 125-250 VAC; CURRENT: 15 A; ACTION: SPDT; CONNECTION: 1/4 IN-NPT; ENCLOSURE RATING: IP65; PROOF 27580 KP; USE ON MILL TRUNION FILTER DP; PART NO: D424S,	50
0120884	SWITCH, PUSHBUTTON: COLOR: RED; ELECTRICAL RATING: 600 VAC 6 A; ACTION: DPST; CONTACT ARRANGEMENT: 1NO 1NC; MOUNT: PANEL; SUPPL P/N: 3SB3801-2EA30-OCOC	50
0121427	SWITCH, LIMIT: POTENTIAL: 125/250/480 VAC; 125/250 VDC; CURRENT: 0.8 A AC; 0.4 A DC; ACTION: DPDT; ACTUATOR: ROLLER LEVER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP65; VARIABLE LENGTH ROLLER LEVER, SNAP ACTION; PART NO: XCK-S141H29	50
0225902	SWITCH, PUSHBUTTON: COLOR: RED; ELECTRICAL RATING: 24 VDC; ACTION: 2PST; CONTACT ARRANGEMENT: 1NO 1NC; MOUNT: SURFACE; HOUSING: AL DIE CAST; MUSHROOM TWIST TO RELEASE E-STOP; PART NO: RM/ST12	50
0227457	SWITCH, SELECTOR: POSITION: 3; POTENTIAL: 220 VAC; CONTACT ARRANGEMENT: 2NO 2NC; TYPE: LOCAL/REMOTE; 2 POLE; MOUNT PANEL; FOR GIRTH GEAR TRAIN PANEL; A TO E MILLS; (088939 X 1); (088896 X 1); PART NO: ZB4 BZ 103, SUPPLIER: UNKNOWN; PART NO: ZB4 BD3	50

0243622	SWITCH, PROXIMITY: TYPE: SPEED; SENSING RANGE: 8 MM; POTENTIAL: 10-30 VDC; CURRENT: 2-100 MA; DIMENSIONS: DIA 18 X LG 40 MM; CONNECTION: 2 WIRE; SPECIFICATION: 088Z04; FOR SSC SPEED MEASUREMENT; PART NO: NBN8-18GM40-Z0, MANUFACTURER: PEPPERL AND FUCHS;	50
0241233	SWITCH, LIMIT: POTENTIAL: 24 VDC; ACTION: SPST; CONTACT ARRANGEMENT: 1NO; ENCLOSURE RATING: METAL; PART NO: ZCK-JIH29	50
0121231	SWITCH, LIMIT: POTENTIAL: 600 V; CURRENT: 10 A; ACTION: SPDT; ACTUATOR: LEVER ARM; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: NEMA 9; COMPLETE WITH LEVER; FOR USE ON ISOLATORS; MODEL NO: LSA1A-2D; PART NO: 564000	50
0121669	SWITCH, PROXIMITY: ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; DOUBLE CONTACT, 52 X 6MM; REFERENCE NO: 22081625080	50
0237170	SWITCH, PRESSURE: TYPE: AIR; RANGE: 4.5 BAR; POTENTIAL: 230/400 V; CURRENT: 15-11 A; ACTION: DPDT; CONNECTION: 1/2 IN-NPT; ENCLOSURE RATING: IP65; USED AT GIRTH GEAR TRAIN 1 AND 2; AIR SUPPLY ON UNT 1 TO 2; PART NO: MCSN4	50
0237737	SWITCH: TYPE: MAGNETIC REED; CURRENT: 1 A AC; 800 MA DC; CONTACT ARRANGEMENT: NO NC; ACTION: DPDT; MOUNT: THD; SUPPL P/N: PSM/T/1; MATERIAL SS304, DIAMETR 10 MM , LENGTH 60 MM, SWITCHING 3 M SEC, READING DISTANCE +-28 MM, PROXY MAGNETIC SENSOR	50
0121068	SWITCH, FLOW: ACTION: SPDT; CONNECTION: 1 IN-NPT; 1-2 OPEN HIGH 1-3 OPEN LOW , CONN 1-11.5; REFERENCE NO: F61SB; REFERENCE NO: F61SB-9100; REFERENCE NO: F64DB9103	50
0227456	SWITCH, LIMIT: POTENTIAL: 24 VDC; CURRENT: 7-8 A; ACTION: (2) SPST; ACTUATOR: ROTARY; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP67; DIMENSIONS: WD 30 X LG 60 MM; BARRING GEAR ENGAGE/DISENGAGE LIMIT COMPLETE IN UNIT 1 TO 6, CUTTLER HAMMER ONLY; MOUNT SURFACE; PART NO: E50RA20 SERIES A1	50
0238438	SWITCH, PRESSURE: TYPE: SOR LOW DIFFERENTIAL; RANGE: 0-1 KPA; POTENTIAL: 250 VAC; CURRENT: 10 A; ACTION: SPDT; CONNECTION: 1/4 IN-NPT; ENCLOSURE RATING: IP65; NON INTRINSIC SAFE; USE ON UNIT 1 TO 6 MILL SEAL AIR DP; PART NO: 107 AL-NIZ-P1-F1A	50
0122256	SWITCH, PRESSURE: RANGE: 0-515 KPA; POTENTIAL: 120-600 VAC; CURRENT: 0.25-0.1 A; ACTION: SPDT; CONNECTION: 1/4 IN-FNPT; RANGE AT FALLING PRESS. 0.069 - 5.2 BAR; MAX. CONDITION PRESSURE 80KPA	50
0210062	SWITCH, PRESSURE: TYPE: HIGH; RANGE: 3 MPA; POTENTIAL: 24 VDC; ENCLOSURE RATING: CI; CUSTOMISED REXROTH HYDRAULIC EQUIPMENT TO BE SUPPLIED BY VITAL SYSTEMS ONLY; COMPLETE WITH R544475 MANIFOLD ADAPTOR; ACTION 2 WAY; PART NO: HED80H1X/100Z14	50
0223814	SWITCH, PROXIMITY: POTENTIAL: 10-60 VDC; CURRENT: 200 MA; ACTION: SPST; CONTACT ARRANGEMENT: 1NO; SCREW ADJUSTMENT MOUNT; PEPPERL AND FUCHS ONLY; FOR USE ON THE TURBINE AND LP BYPASS CVA OIL LEAKAGE DETECTOR; PART NO: CJ10-30GM-E2-V1	50

0220914	SWITCH, PROXIMITY: POTENTIAL: 10-30 VDC; CURRENT: 200 MA; ACTION: SPDT; CONTACT ARRANGEMENT: 1NO 1NC; CONNECTION: 4 WIRE LEAD; SPECIFICATION: EN 50 008-A13; SUPPL P/N: 83766; NBBS-18 GM 60-A2; SCREW MOUNT; PEPPERL AND FUCH BRAND ONLY; FOR USE WITH SICON FLOPPER GATES	50
0234300	SWITCH, SENSITIVE: ACTUATOR STYLE: LEVER; CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 380 VAC; CURRENT: 15 A; BODY STYLE: MICRO; MOUNT: TWIN SCREW; APPLICATION: MILL TRUNION OIL FLOW METER; ACTION SPDT; ACTUATOR: TYPE WITH SHORT LENGTH ( 26MM FROM PIVOT TO CENTRE OF ROLLER WHEEL ).ROLLER WHEEL MOUNTED ON TOP AND SPRING LOADED RETURN; CONNECTION BY MEANS OF SCREW AND CUP WASHERS ONLY; BODY SIZE: 49.3MM WD X 17.4MM THK; ACTUATOR HT FROM CENTRE OF FIXING HOLES TO TOP OF ROLLER WHEEL: 32MM; BODY HEIGHT: 29MM; FIXING HOLES 3.5MM AND 25.4MM APART; SWITCHING: MARKED ON BOTTOM AS PER SWITCH CONFIGURATION; PART NO: BZ-2RW822-P2	50
0635069	SWITCH, LEVEL: METHOD OF ACTUATION: RISING/FALLING OIL LEVEL; RANGE: -10 TO 80 DEG C; POTENTIAL: 230 VAC; CURRENT: 0.5 A; POWER: 40 VA; ACTION: SPST; CONTACT ARRANGEMENT: 1NO 1NC; DIMENSIONS: DIA 12 X LG 320 MM; APPLICATION: TRUNION OIL TANK MILL; ENCLOSURE: ALUMINIUM; ENCLOSURE RATING: IP65; CLASSIFICATION: EXPLOSIONPROOF; FLOAT DIA: 44MM; TERMINAL BOX DIMENSIONS: WD 75 X LG 80 X THK 57MM; CHANGE OVER CONTACT; PART NO: AF-U-L320/12-V44A	50
0121454	SWITCH, PRESSURE: RANGE: 0-1000 KPA; POTENTIAL: 250 VAC; CURRENT: 10 A; ACTION: SPDT; CONNECTION: 1/2 IN-NPT; ENCLOSURE RATING: IP54; BREAKING CAPACITY: 250VAC 10(5)A; MAX.AMBIENT TEMP: 70DEG C; REFERENCE NO: PS5103G2492; PART NO: TYPE DCM 10	50
0210063	SWITCH, PRESSURE: TYPE: LOW PRESSURE; RANGE: 1.5 MPA; POTENTIAL: 24 VDC; ENCLOSURE RATING: CI; CUSTOMISED REXROTH HYDRAULIC EQUIPMENT TO BE SUPPLIED BY VITAL SYSTEMS ONLY; COMPLETE WITH R544475 MANIFOLD ADAPTOR; ACTION 2 WAY; PART NO: HED80H1X/50Z14	50
0237738	SWITCH, PROXIMITY: POTENTIAL: 10-38 VDC; ACTION: PNP; LED; PART NO: XS4 P18PA340	50
0238436	SWITCH, PROXIMITY: POTENTIAL: 12-48 VDC; ACTION: PNP; CONNECTION: 3 WIRE; ACTION DOUBLE THROW; LOCK NUT MOUNT; FOR SICON CONVEYORS SPEED MEASUREMENT; PART NO: XSA V11373	50
0237739	SWITCH, PROXIMITY: TYPE: INDUCTIVE; POTENTIAL: 10-38 VDC; PART NO: XS4 P18 MA 230	50
0121444	SWITCH, LIMIT: POTENTIAL: 125/250 VAC; CURRENT: 10 A; ACTION: SPDT; ACTUATOR: LEVER; CONTACT ARRANGEMENT: 1NO 1NC; ON/OFF; PART NO: 11LS1-4PG	50
0121665	SWITCH, SELECTOR: POTENTIAL: 380 V; CURRENT: 16 A; ACTION: 6PST; 6 POLE; REFERENCE NO: GB4974; PART NO: C10B	50
0225911	SWITCH, PROXIMITY: POTENTIAL: 24 VDC; ACTION: DPST; CONTACT ARRANGEMENT: 1NO 1NC; BRACKET MOUNT; PART NO: XS4 P18 PA 370	50

0225912	SWITCH, PROXIMITY: POTENTIAL: 24 VDC; ACTION: SPST; CONTACT ARRANGEMENT: 1NO; BRACKET MOUNT; PART NO: NCN15-30 GM40-NO	50
0242211	SWITCH, LIMIT: POTENTIAL: 24 VDC; ACTION: DPST; CONTACT ARRANGEMENT: 1NO 1NC; APPLICATION: APRON CONVEYORS UNIT 1-6; REFERENCE NO: ZCKM1H29; PART NO: 073950	50
0231094	SWITCH, PROXIMITY: TYPE: INDUCTIVE; POTENTIAL: 24-240 VAC/DC; CURRENT: 5-300 MA AC; 5-200 MA DC; CONTACT ARRANGEMENT: 1NO 1NC; BASE MOUNT; ACTION SINGLE PHASE; 50/60HZ; PART NO: XS7-C40MP230	50
0123287	SWITCH, LEVEL: METHOD OF ACTUATION: FLOAT; RANGE: -0 TO 50 DEG C; POTENTIAL: 250 VAC; CURRENT: 10 A; ACTION: SPDT; CABLE LENGTH: 13 M; ENCLOSURE: PLASTIC; PEAR BALL, MERCURY FILLED FLOAT; PART NO: ENH10	50
0121024	SWITCH, SELECTOR: OPERATED: KEY; POSITION: 3; KEY ACTUATOR ONLY; SWITCHING SEQUENCE 1-0-11; LATCHING 2 X 50 DEG OPERATING ANGLE; REFERENCE NO: 3SB1000-4PB20	50
0121342	SWITCH, SELECTOR: OPERATED: KEY; POSITION: 2; POTENTIAL: 380 V; CONTACT ARRANGEMENT: 1NO 1NC; ACTION: SPST; 250/500VAC; PART NO: EX4225-2	50
0121661	SWITCH, PROXIMITY: TYPE: FLUSH; SENSING RANGE: 4 MM; POTENTIAL: 6-12 VDC; CURRENT: 1.1 MA; ACTION: SPST; CONTACT ARRANGEMENT: NO; DIMENSIONS: DIA 12 X LG 25 MM; CONNECTION: 2 WIRE; APPLICATION: NAMUR PROXY SENSOR; DC; BRS WIRE; NON-FLUSH; 4MM SENS/INP; 500HZ; 2M; CBL; NICKEL; PART NO: P6C2B1204NA/LED	50
0225910	SWITCH, LIMIT: POTENTIAL: 220 VAC; ACTION: (2) DPST; ACTUATOR: ROLLER LEVER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE: IP66; PART NO: XCK- M1 H29	50
0123192	SWITCH, LIMIT: POTENTIAL: 600 VAC/DC; ACTION: DPST; ACTUATOR: LEVER; CONTACT ARRANGEMENT: 1NO 1NC; ENCLOSURE RATING: AL; PART NO: A2-33-A	50
0241257	SWITCH: TYPE: EMERGENCY STOP; POTENTIAL: 24 VDC; CONTACT ARRANGEMENT: 1NO; STATION; PART NO: CH191176	50
0121173	SWITCH, PHOTOELECTRIC: TYPE: DAYLIGHT; CONTACT RATING: 250 V; CONTACT ARRANGEMENT: 1NO; ACTION: SPST; CONNECTION: PLUG LOCKING; PANEL MOUNT; FOR ULTRAVIOLET RAY PROTECTION; PART NO: ZS20A	50
0227453	SWITCH, SENSITIVE: CONTACT ARRANGEMENT: 1NO 1NC; POTENTIAL: 690 V; CURRENT: 10 A; BODY STYLE: MICRO; ACTION (2) SPDT; CUTTLER HAMMER CONTACT BLOCK FOR SICON CONVEYOR PULL KEYS, UNIT 1 TO 6; PART NO: 10250T1/ 91000T	50
0121772	SWITCH, LEVEL: RANGE: 90 DEG C; POTENTIAL: 24 VDC; CURRENT: 1 A; ACTION: SPST; DIMENSIONS: WD 33 X LG 205 X HT 33 MM; ENCLOSURE: NEMA 009; WITH PROLINE BLOCK CHUTE, STYLE TILT; MODEL NO: 20-39; PART NO: 005778	50

0646781	SWITCH, SELECTOR: OPERATED: LEVER; POSITION: 2; POTENTIAL: 380 V; CURRENT: 20 A; CONTACT CONFIGURATION: ON/OFF; CONTACT ARRANGEMENT: 1NO 1NC; POWER: 5.5 KW; ACTION: 6PST; APPLICATION: LANCE SOOTBLOWERS; CLASSIFICATION: IP65; PART NO: CA10B.GB6704	50
0646786	SWITCH, SELECTOR: OPERATED: LEVER; POSITION: 2; POTENTIAL: 380 V; CURRENT: 20 A; CONTACT CONFIGURATION: ON/OFF; CONTACT ARRANGEMENT: 1NO 1NC; POWER: 5.5 KW; ACTION: 6PST; APPLICATION: LANCE SOOTBLOWERS; CLASSIFICATION: IP65; PART NO: CA10B.GB6704	50
0403713	RECEPTACLE, ELECTRICAL: TYPE: SWITCH SOCKET COMBINATION; POLE: 3; POTENTIAL: 250 V; CURRENT: 15 A; DIMENSIONS: SQ 100 MM; REFERENCE NO: 1386-8886; 16 A; DOUBLE PLUG; COLOR IVORY; COMPLETE WITH COVER PLATES	50
0223937	SWITCH, PROXIMITY: POTENTIAL: 10-30 VDC; ACTION: DPST; CONTACT ARRANGEMENT: 1NO 1NC; CAPTIVE CLAMP MOUNT; USED ON THE METROFLEX DAMPERS; OPEN AND CLOSE AND HANDWHEEL LIMITS; PART NO: NBB20-L2-A2-V1, SUPPLIER: UNKNOWN; PART NO: 187548	50

**Table 1: Switch Disconnectors Technical specification**

Standards		IEC 60947-1, IEC 60947-3, VDE 0660 Part 107					
Type		3KM50	3KM52	3KM53	3KM55	3KM57	3KL57
Rated uninterrupted current <i>I<sub>u</sub></i>	A	63	125	160	250	400	400
Rated insulation voltage <i>U<sub>i</sub></i>	V	690	1000	1000	1000	1000	1000
Rated operational voltage <i>U<sub>e</sub></i>	V	690	690	690	690	690	690
Rated short-time current (1 s current), rms value	kA	2.5	3.2	3.2	8	11	11
Permissible ambient temperature	°C	-25 up to +55 for operation					
	°C	-50 up to +80 when stored					
Mechanical endurance, operating cycles		15000	15000	15000	12000	12000	12000
Degree of protection		IP20 (from the operator side, with fuse and terminal covers)					

Main conductor connections							
Busbar systems max. dimensions (W X T)	mm	25 x 9	45 X10	45 X10	40 X 12	40 X 15	40 X15
Cable lug, max. conductor cross-section (stranded)	mm <sup>2</sup>	35	70	120	150	2 X 150 or 1 X 240	2 X 150 or 1 X 240
Terminal screws		M6	M6	M8	M10	M10	M10

### 3 Supply Requirements

The Supply Requirements for this contract are in an Annexure A to the Contract Data provided by the Purchaser.

All deliveries must be done at the Kendal Power Station Stores Receiving

The delivery note must reference the order number

Deliveries must be made between 07:15 - 16:30 Monday to Thursday and Friday 07:15 – 12:15.

At times during weekends or weekdays after hours, Special deliveries might be requested during plant breakdowns.

### 4 Constraints on how the *Supplier* Provides the Goods

#### 4.1 Constraints at the delivery place and place of use

- When delivering materials to site, each item must be marked with the purchase order number.
- Eskom Holdings Limited will only accept items stipulated in the Eskom Holdings Limited 's purchase order.
- No delivery will be made without a purchase order number (450....)
- Wrong deliveries will not be accepted and will be returned to the *Supplier*
- Quality Check will be done, and material with poor quality will be returned without exceptions. The *Supplier* will have to replace the goods.
- The prices include delivery but excludes VAT
- Material damaged due to inadequate protection will not be accepted on site. You are urged to ensure that sufficient packing protection is given to goods that may be susceptible to damage in transit.

NOTE: In cases where the *Supplier* employs subcontractor/s, any disagreements between the *Supplier* and their subcontractor/s shall not affect supply and/or delivery, such as the withholding of supply and/or delivery in the event of a dispute that is independent of Eskom.

## 4.2 Services & other things to be provided by the *Purchaser* or *Supplier*

During off loading, Eskom will assist with a fork lift.

## 4.3 Management meetings

Regular meetings of a general nature may be convened and chaired by the *Supply Manager* as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Overall contract progress and feedback	As an when required	Kendal Power Station	<i>Purchaser, Supplier, and stakeholders from both parties as and when required</i>

Meetings of a specialist nature may be convened as specified elsewhere in this Goods Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the manufacture of the *goods*. Records of these meetings shall be submitted to the *Supply Manager* by the person convening the meeting within five days of the meeting.

All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the *conditions of contract* to carry out such actions or instructions.

## 4.4 Documentation control

All documents submitted by the *Supplier* shall be of good quality and shall be subject to the *Purchaser's* approval. All goods to be delivered must be accompanied by a delivery note.

## 4.5 Health and safety risk management

The *Supplier* shall comply with the following health and safety requirements:

The *Supplier* shall at all times comply with the health and safety requirements prescribed by law applicable to these services, including Eskom health and safety procedures. Minimum:

- [1] Basic Conditions of Employment Act No 75 of 1997.
- [2] Occupational Health and Safety Act and Regulations No 85 of 1993.
- [3] National Environmental Management Act 107 of 1998.
- [4] National Road Traffic Act 93 of 1996.
- [5] 32-37 Eskom Substance Abuse Procedure.

- [6] 32-136 Eskom Contractor Health and Safety Requirements
- [7] 240-62196227 Eskom Life- saving Rules
- [8] 32-95 Eskom Environmental, Occupational Health and Safety Incident Management Procedure
- [9] 32-727 Eskom SHEQ Policy
- [10] 240-62946386 Eskom Vehicle and Driver Safety Management Procedure
- [11] 32-520 Eskom Risk assessment procedure
- [12] \*1015696 Kendal Power Station Contractors SHE specification

The *Supplier* shall comply with the health and safety requirements contained in Project SHE specification provided with the tender documents, Occupational health and safety act and all applicable health & safety laws and regulations and rules, guidelines, and procedures.

- The *Supplier* shall develop and implement a project specific health and safety plan based on the provided project applicable SHE requirements and legal requirements. The *Supplier* shall submit the plan to the *Purchaser's* Safety risk department before commencement of the contract for evaluation and approval.
- These documents shall be maintained for the duration of the contract.

#### **4.6 Environmental constraints and management**

The *Supplier* shall comply with the environmental criteria and constraints

Kendal Power Station is ISO 14001 compliant. The *Supplier* must comply with the requirements of this procedure titled: Environmental Management System Requirement for the Contractors number PG/240/008. Kendal also has an SHEQ Policy PS/270/0083, to which every *Supplier* must adhere to. It is therefore the responsibility of the *Supplier* to ensure that the *Supplier* obtains copies of Kendal SHEQ Policy. The *Supplier* must identify all Environmental aspects and impacts related to his/her activities.

The *Supplier* must comply with the following requirements.

- a) Environmental Management System (ISO 14001:2015)
- b) National Environmental Management Act (Act 107 of 1998)
- c) Environmental Management Procedure for Contractors (\*1018332)
- d) Waste Management Procedure (\*1024102)
- e) Non-conformance, Corrective and Preventative Action (\*1017357)

## 4.7 Quality

### Quality assurance requirements

#### General

- a. The *Supplier* complies with the *Purchaser's* quality and technical requirements including those listed in the *Purchaser's* specification document QM58 (Quality Management Specification 240- 105658000).

#### Quality Management documents requirements

The *Supplier* submits the following document after contract award to the *Supply Manager* for review and acceptance and prior to the commencement of work

The *Supplier* will supply the *Supply Manager* with a QCP which will detail the *Supplier's* organisation, quality assurance and quality control procedures specific to this project. The QCP must be aligned to, and reference ISO 10005:2005 QMS, guidelines for quality plans and in compliance with the guideline in QM 58 ( Quality Management Specification 240- 105658000). The QCP will make reference to the *Supplier's* QMS Procedures to be used in this Contract:

- a. The *Supplier's* QMS compliance with the requirements of ISO 9001
- b. *Supplier's* quality manual
- c. *Supplier's* quality procedures
- d. *Supplier's* quality forms and work instructions
- e. *Supplier's* quality system documents referenced in this Works Information

#### Non Conformances and Defects

Where NCR's and Defect notifications are issued, the *Supplier* acknowledges receipt as per reply period and proposes corrective and preventive actions to the *Supply Manager* as per the contract response period. The corrective and preventive actions will include the implementation and completion dates. Progress on all NCR's and Defect notifications issued to the *Supplier* must be reported to the *Supply Manager* on weekly

## 4.8 Invoicing and payment

Within one week of receiving a payment certificate from the *Supply Manager* in terms of core clause 51.2, the *Supplier* provides the *Purchaser* with a tax invoice showing the amount due for payment equal to that stated in the *Supply Manager's* certificate.

The *Supplier* shall address the tax invoice to *Purchaser* and include on each invoice the following information:

- Name and address of the *Supplier* and the *Supply Manager*;
- The contract number and title;
- *Supplier's* VAT registration number;
- The *Purchaser's* VAT registration number.
- Description of *goods* and *services* provided for each item invoiced based on the Price Schedule;
- Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;
- (add other as required).
- All invoices must be submitted to [invoiceseskomlocal@eskom.co.za](mailto:invoiceseskomlocal@eskom.co.za) after the goods have passed the Quality Control processes which include goods receipts.

#### **4.9 Insurance provided by the *Purchaser***

As per Core Clause Z13.1 stated in C1.2 SC3 Contract Data (Data Provided by the *Purchaser*) of this NEC3 SC3 document.

## **C3.2 SUPPLIER'S GOODS INFORMATION**

This section of the Goods Information will always be contract specific depending on the nature of the *goods* and *services*.

It is most likely to be required for supply contracts where the tendering supplier will have proposed specifications and schedules for the *goods* and *services*, which once accepted by the *Purchaser* prior to award of contract now become obligations of the *Supplier* per core clause 20.1.

This section could also be compiled as a separate file.

---