

 Eskom	Scope of Work	Engineering
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Title: **Supply and Delivery of Electrical Power Electronics Spares (Diodes, Drives, Rectifier, Modules Resistors and Thyristors)**

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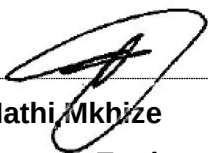
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1. Introduction

This document specifies the technical requirements for the supply and delivery of rectifiers, diodes and thyristors at Kendal Power Station Stores Department. Different types of rectifiers, diodes and thyristors are specified in the document and they must be delivered as specified.

2. Supporting Clauses

2.1 Scope

This document defines the technical scope of work to be performed by the contractor or supplier, which includes the supply and delivery of the rectifiers, diodes and thyristors that must be delivered at Kendal Power Station Stores Department.

2.1.1 Purpose

This document defines the requirements for supply and delivery of rectifiers, diodes and thyristors at Kendal Power Station

2.1.2 Applicability

This documents it only applicable to Kendal Power Station.

2.2 Normative/Informative References

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

2.2.1 Normative

- IEC 60947-1: Low Voltage Switchgear and Controlgear – Part 1: General rules
- IEC 60947-3: Low Voltage Switchgear and Controlgear – Part 3 □ ISO 9001 Quality Management Systems.

2.2.2 Informative

□ None.

2.2.3 Disclosure Classification

Controlled disclosure: controlled disclosure to external parties (either enforced by law, or discretionary).

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2.3 Abbreviations

Abbreviation	Description
IEC	International Electrotechnical Commission
MCC	Motor Control Centre
UPS	Uninterrupted Power Supply
A	Ampere
kA	Kilo - Ampere
V	Voltage
VAC	Voltage Alternating Current
VDC	Voltage Direct Current
mm	Millimetre
mm ²	Square Millimetre
IP	Internal Protection

2.4 Roles and Responsibilities

This document shall be managed by Electrical Engineering and Stores Department, Kendal Power Station.

- Work Execution – Supplier/Contractor
- Quality Control – Electrical Engineering/ Technical Support

3. Diodes and Thyristors Works Information

3.1 Diodes and Thyristors Tender Evaluation

Evaluation shall be carried out according to Tender Engineering Evaluation Procedure 24048929482

4. Specification and Description of the Goods

Semiconductor devices are very powerful in controlling high currents and voltages. Nevertheless, they are very susceptible to violations of the safe-operating conditions which may lead to their failure. When a phase control device must turn-off its current under inductive load conditions, it is very important that the voltage between anode and cathode remains inside the acceptable voltage limits.

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A semiconductor device has a built-in junction capacitor. However, when a reverse voltage starts to rise during the turn-off phase, this capacitance is insufficient to reduce any overvoltage. An additional parallel RC-Snubber is then needed to reduce the overvoltage to a reasonable limit.

Snubber component design depends on the operating conditions including commutation inductance, voltage and di/dt during turn-off. Other factors to consider include the semiconductor's reverse current waveform during operation and its circuit conditions. The snubber also influences the semiconductor's turn-off losses. This document explains the turn-off process of phase control devices. It outlines a design procedure for optimizing a snubber for a specific application.

Thyristors are typically used as phase-controlled current valves for AC to DC conversion and vice versa, operating at low frequencies (most often around AC line frequency). In the conducting state, thyristors feature very low losses, making them attractive devices to efficiently control very high currents and energies.

Silicon controlled rectifier is normally in OFF state but when a small current enters its gate G it goes to ON state. If the gate current is removed, the SCR remains in ON state and to turn it off the anode to cathode current must be removed or the anode must be set to a negative voltage in relation to cathode. The current only flows in one direction from anode to cathode. SCRs are used in switching circuits, phase control circuits, inverting circuits etc.

Table 1 :Thyristor Stock items

Material	Material Description	
0115930	THYRISTOR:SCR,275A,SKT130-04C THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 275 A; INDUSTRY STANDARD: SKT130-04C; REFERENCE NO: 88065; SKT130-04C; SIZE 200MM LONG X 22MM DIAMETER, THREAD DIAMETER 15.8MM	100
0131006	THYRISTOR:1200 SKT 100/12C P1/75;10 A THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 10 A; INDUSTRY STANDARD: 3728; SUPPL P/N: 1200 SKT 100/12C P1/75; TA1017; BRIDGE, FOR BATTERY CHARGERS	100
0131007	THYRISTOR:BRIDGE;TA1006 , THYRISTOR: TYPE: BRIDGE; INDUSTRY STANDARD: TA1006; REFERENCE NO: 230/12 P10/320, UNK; TA1006, UNK; SUPPL P/N: 1200SKT	100
0131008	THYRISTOR:BRIDGE;TA1008 , THYRISTOR: TYPE: BRIDGE; INDUSTRY STANDARD: TA1008; REFERENCE NO: 1200SKT, UNK; 15/12D P11/150, UNK; TA1008, UNK	100

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0131009	THYRISTOR:130/12C P1/12;135 A;BRIDGE, THYRISTOR: TYPE: BRIDGE; INDUSTRY STANDARD: TA1008; REFERENCE NO: 1200SKT, UNK; 15/12D P11/150, UNK; TA1008, UNK	100
0131014	THYRISTOR:BRIDGE STACK;SKT340/16D;500 V , THYRISTOR: TYPE: BRIDGE STACK; INDUSTRY STANDARD: SKT340/16D; POTENTIAL: 500 V; INCLOSURE MATERIAL: AL/PORCELAIN; REFERENCE NO: RCI-0456-5047P, UNK; SUPPL P/N: 5961-70-011-4689; 86034G; COMPLETE, 40 DEG C	100
0131015	THYRISTOR:SKT34016D;UNIT	100
0131026	THYRISTOR:BATTERY CHARGER;24 A;3904P , THYRISTOR: TYPE: BATTERY CHARGER; CURRENT: 24 A; INDUSTRY STANDARD: 3904P; SUPPL P/N: DS 117-08 I02; SKT2408C; 3 OFF, MOUNTED ON HEATSINK	100
0131027	THYRISTOR:TA1015;15 A;332 V;BRIDGE , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 15 A; POTENTIAL: 332 V; REFERENCE NO: 840508B, UNK; TA1015, UNK; BRIDGE	100
0131028	THYRISTOR:850479;125 A;200 V; 35 VDC , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 125 A; POTENTIAL: 200 V; 35 VDC; SUPPL P/N: 850479; BRIDGE, T=45 DEG C, PHASE 1	100
0131029	THYRISTOR:B2HKF;135 A;24 V;BRIDGE, T=45 , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 135 A; POTENTIAL: 24 V; SUPPL P/N: 860162; B2HKF; BRIDGE, T=45 DEG	100
0131030	THYRISTOR:B6HFK;165 A;200 V;BRIDGE, 24C , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 165 A; POTENTIAL: 200 V; REFERENCE NO: 860141, UNK; SKIT 160/04, UNK; SUPPL P/N: B6HFK; BRIDGE, 24C DC T=45 DEG, PHASE 3	100
0131037	THYRISTOR:450 A;302634;1.2 KV;FOR B 312 , THYRISTOR: CURRENT: 450 A; INDUSTRY STANDARD: 302634; POTENTIAL: 1.2 KV; SUPPL P/N: BSTN45-B-80V; FOR B 312 4 UPS	100
0131052	THYRISTOR:4400V HUEL412312P0001 , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; SUPPL P/N: 4400V HUEL412312P0001; ITM.91520, FOR EFP	100

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	CONVERTER INVERTER PANEL, USED ON BOILER FEED PUMP	
0131062	THYRISTOR:21.4001.108;LG CHARGER , THYRISTOR: TYPE: LG CHARGER; SUPPL P/N: 21.4001.108; TRIGGERING UNIT	100
0131064	THYRISTOR:21.4001.111;INVERTER , THYRISTOR: TYPE: INVERTER; SUPPL P/N: 21.4001.111; TRIGGERING	100
0131065	THYRISTOR,RECTIFIER & BYPASS CS110-12 102 , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; INDUSTRY STANDARD: CS110-12I02; REFERENCE NO: 21.4001.118; CS110-12I02; RECTIFIER AND BYPASS	100
0131066	THYRISTOR:21.4001.119;5406P;INVERTER , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; INDUSTRY STANDARD: 5406P; REFERENCE NO: 21.4001.119, UNK; BSTH 3466 K / SKT70F10DU, UNK; SKT70F10DU, UNK; INVERTER COMMUTATION	100
0131068	THYRISTOR,BYPASS CS112-12-108 , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; INDUSTRY STANDARD: O4840D; REFERENCE NO: 21-4001-121; CS112-12-108; BYPASS	100
0131078	THYRISTOR:SWITCHING,300A,SKT300/12C , THYRISTOR: TYPE: SWITCHING; CURRENT: 300 A; INDUSTRY STANDARD: SKT300/12C; SUPPL P/N: SKT300/12C; SEMIKRON ONLY, 3/4 INCH UNF THREAD COMPLETE WITH NUT AND WASHERS	100
0131120	THYRISTOR:IRKTF72-120C;60 A;SFKT60-10 , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 60 A; INDUSTRY STANDARD: SFKT60-10; SUPPL P/N: IRKTF72- 120C	100
0131121	THYRISTOR:ET142848;95 A;TT95N1000 , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 95 A; INDUSTRY STANDARD: TT95N1000; MODEL NO: ET142848, UNK	100
0131122	ASSY:ET142928;THYRISTOR/DIODE , ASSEMBLY: TYPE: THYRISTOR/DIODE; SUPPL P/N: ET142928; INDUSTRY STANDARD: IRKHF72-08DL; CURRENT: 90 A	100
0131123	THYRISTOR:ET142898;55 A;IRKT5608 , THYRISTOR: TYPE: SILICON CONTROLLED	100

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	RECTIFIER; CURRENT: 55 A; INDUSTRY STANDARD: IRKT5608; SUPPL P/N: ET142898	
0131138	THYRISTOR:IRKT 91-16S90;90 A;3E123 , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 90 A; INDUSTRY STANDARD: 3E123; SUPPL P/N: IRKT 91-16S90	100
0131143	CONTROL:THYRISTOR;SOOTBLOWER;RANGE 0-200, THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; INDUSTRY STANDARD: 175F5222; REFERENCE NO: BSTP4580-5F, UNK; N350CH12L00, UNK; FOR SIMOREG TRAVEL DRIVE	100
0131145	THYRISTOR:IRKT-26-12E;26 A;3J142 , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 26 A; INDUSTRY STANDARD: 3J142; SUPPL P/N: IRKT-26-12E	100
0131152	THYRISTOR:T345N1600;300 A;T345N1600 , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; CURRENT: 300 A; INDUSTRY STANDARD: T345N1600; SUPPL P/N: T345N1600	100
0131154	THYRISTOR:SKFT60-10DU;PACKAGE, FAST, THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; REFERENCE NO: SKFT60-10DU, UNK; TT60F10KFC, UNK; PACKAGE, FAST, COMMUTING TIME 25MS	100
0131155	THYRISTOR:SKHF60-08DT;DIODE PACKAGE, THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; REFERENCE NO: 7D60F08KEC, UNK; SKHF60-08DT, UNK; DIODE PACKAGE, FAST COMMUTING TIME 25MICRO S	100
0131159	THYRISTOR:860346;340 A;SKT340/16E , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; REFERENCE NO: 7D60F08KEC, UNK; SKHF60-08DT, UNK; DIODE PACKAGE, FAST COMMUTING TIME 25MICRO S	100
0131166	THYRISTOR:CS 1300-12IO2;CS1300-12IO2 , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; INDUSTRY STANDARD: CS1300-12IO2; SUPPL P/N: CS 1300-12IO2; AMPERAGE UNKNOWN	100
0133043	CONTROL:THYRISTOR;SOOTBLOWER;RANGE 0-200 , CONTROL: TYPE: THYRISTOR; APPLICATION: SOOTBLOWER; SUPPL P/N: 0903-68500; RANGE 0-200 DEGREE CELSIUS, TYPE J	100

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0142226	THYRISTOR,CONTROLLER EFIPRE333-76035S003, MODULE: TYPE: THYRISTOR CONTROL UNIT; REFERENCE NO: EFIPRE333-76035-S003	100
0187437	THYRISTOR:HEKS352302R2744;CS1302-4423 , THYRISTOR: TYPE: SILICON CONTROLLED RECTIFIER; INDUSTRY STANDARD: CS1302- 4423; SUPPL P/N: CS 1302-44; HEKS352302R2744	100
0221541	THYRISTOR:SKT300/12C;SWITCHING;300 A , THYRISTOR: TYPE: SWITCHING; CURRENT: 300 A; INDUSTRY STANDARD: SKT300/12C; SUPPL P/N: SKT300/12C; SEMIKRON ONLY, ONE INCH UNF THREAD COMPLETE WITH NUT AND WASHERS	100
0580042	THYRISTOR:3HB010085R001;3452N0019;5.5 KV , THYRISTOR: INDUSTRY STANDARD: 3452N0019; POTENTIAL: 5.5 KV; POWER: 55 KA; MOUNT: LCI DRIVE; MANUF P/N: 3HB010085R001	100

Table 2: Rectifier Stock Items

Material	Material Description		
0129071	TRFR:RECTIFIER COMBINATION;380 VAC;3 , TRANSFORMER: TYPE: RECTIFIER COMBINATION; POTENTIAL: 380 VAC; PHASE: 3		100
0130770	RECTIFIER:BRIDGE;12 V;5 A;9507;1 PHASE , RECTIFIER: TYPE: BRIDGE; POTENTIAL: 12 V; CURRENT: 5 A; INDUSTRY STANDARD: 9507; CONNECTION: 4 CAPTIVE SCREW; SUPPL P/N: SKB30-12A1; 1 PHASE		100
0131000	RECTIFIER:BRIDGE;SKB15/16AZ , RECTIFIER: TYPE: BRIDGE; INDUSTRY STANDARD: SKB15/16AZ; REFERENCE NO: SKB 15/16 A2, UNK		100
0131001	RECTIFIER,BRIDGE 50A TEMP 45DEG C 870115, RECTIFIER: TYPE: BRIDGE; CURRENT: 50 A; INDUSTRY STANDARD: 870115; REFERENCE NO: 870115; SUPPL P/N: 0007; TEMPERATURE 45 DEG C, SINGLE PHASE		100
0131002	RECTIFIER:9406;BRIDGE;9406 , RECTIFIER: TYPE: BRIDGE; INDUSTRY STANDARD: 9406; REFERENCE NO: SKB 50/16 A3, UNK; SUPPL P/N: 9406		100
0131003	RECTIFIER:9689; BRIDGE;9689 , RECTIFIER: TYPE: BRIDGE; INDUSTRY STANDARD: 9689; REFERENCE NO: SKD 50.02 A3, UNK; SUPPL P/N: 9689		100

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0131010	RECTIFIER:SSI36E111240DB230/310300S , RECTIFIER: TYPE: BRIDGE; INDUSTRY STANDARD: 310300S; REFERENCE NO: TA 538, UNK; SUPPL P/N: SSI36E111240DB230/310300S; DIODE		100
0131011	RECTIFIER:BRIDGE;E78996;DIODE , RECTIFIER: TYPE: BRIDGE; INDUSTRY STANDARD: E78996; SUPPL P/N: SSI90 E11/1240-DB 230/310-750 S; TA529; DIODE		100
0131012	RECTIFIER:BRIDGE;N45B90;DIODE , RECTIFIER: TYPE: BRIDGE; INDUSTRY STANDARD: N45B90; REFERENCE NO: TA532, UNK; SUPPL P/N: E11/1240-DB 230/310-200 S; SSI24; DIODE		100
0131013	RECTIFIER:BRIDGE;DIODE , RECTIFIER: TYPE: BRIDGE; REFERENCE NO: TA539, UNK; SUPPL P/N: SSI96 E11/1240-I/3DB 230/310-750S; DIODE		100
0131021	RECTIFIER:BRIDGE;ZD0016 , RECTIFIER: TYPE: BRIDGE; INDUSTRY STANDARD: ZD0016; REFERENCE NO: ZD 0016, UNK; ZD0016, UNK		100
0131023	RECTIFIER:KT480C;POWER PACK;24 V;0.6 A , RECTIFIER: TYPE: POWER PACK; POTENTIAL: 24 V; CURRENT: 0.6 A; REFERENCE NO: KT480C, UNK; TERMINATIONS		100
0131042	RECTIFIER:302 687;BF26933;TERMINAL, RECTIFIER: INDUSTRY STANDARD: BF26933; CONNECTION: TERMINAL; REFERENCE NO: B 3112 UPS; BF 26933 / 8309; SUPPL P/N: 302 687		100
0131043	RECTIFIER:BRIDGE;380 V;30 A;2449;4 SCREW , RECTIFIER: TYPE: BRIDGE; POTENTIAL: 380 V; CURRENT: 30 A; INDUSTRY STANDARD: 2449; CONNECTION: 4 SCREW; SUPPL P/N: SKD3010- 16A1		100
0131044	RECTIFIER:1720B / BR152;BRIDGE;BR152, RECTIFIER: TYPE: BRIDGE; INDUSTRY STANDARD: BR152; CONNECTION: TERMINAL; REFERENCE NO: 13774-00, UNK; SUPPL P/N: 1720B / BR152; DIODE, FOR TURBIDITY ANALYSERS HCH		100
0131163	RECTIFIER,DIODE 110U2G43 , RECTIFIER: TYPE: BRIDGE; POTENTIAL: 400 V; INDUSTRY STANDARD: 110U2G43; CONNECTION: SCREW DOWN; MODEL NO: VFA3 400V 37KW; REFERENCE NO: 110U2G43; FOR TOSHIBA DRIVE, 3 X 2 DIODE PACKS FOR FULL WAVE RECTIFICATION		100
0131164	RECTIFIER:BRIDGE;30U6P42;SCREW DOWN , RECTIFIER: TYPE: BRIDGE; INDUSTRY STANDARD: 30U6P42; CONNECTION: SCREW		100

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	DOWN; MODEL NO: VFA3 4075, UNK; REFERENCE NO: 30U6P42, UNK; FOR TOSHIBA DRIVE		
0148316	RECTIFIER:DRIVE;TERMINAL;POTENTIOMETER , RECTIFIER: TYPE: DRIVE; CONNECTION: TERMINAL; REFERENCE NO: SM 480 R1, UNK; POTENTIOMETER		100
0584593	RECTIFIER:LGV452528P2012;BRIDGE;31 A , RECTIFIER: TYPE: BRIDGE; POTENTIAL: 800- 1600 V; CURRENT: 31 A; INDUSTRY STANDARD: VBO20-12NO2; CONNECTION: 1/4 INCH FAST ON TERMINALS; SPECIFICATION: UL REGISTERED E 72873; MANUF P/N: LGV452528P2012; SINGLE PHASE RECTIFIER BRIDGE		100

Table 3: Diodes and Modules Stock Items

Material	Material Description	
0130966	DIODE:3TX6406-0C;SUPPRESSION;3TB40-44 , DIODE: TYPE: SUPPRESSION; INDUSTRY STANDARD: 3TB40-44; POTENTIAL: 110-220 VAC; REFERENCE NO: 3TX6406-0C, UNK	100
0130967	DIODE:3TX6526-0C;SUPPRESSION;3TB46-50 , DIODE: TYPE: SUPPRESSION; INDUSTRY STANDARD: 3TB46-50; POTENTIAL: 110-220 VAC; REFERENCE NO: 3TX6526-0C, UNK	100
0130968	DIODE:3TX6566-0C;SUPPRESSION;3TB52-56 , DIODE: TYPE: SUPPRESSION; INDUSTRY STANDARD: 3TB52-56; POTENTIAL: 110-220 VAC; REFERENCE NO: 3TX6566-0C, UNK	100
0130969	DIODE:3TX4210-0D;SUPPRESSION;3TJATAC , DIODE: TYPE: SUPPRESSION; INDUSTRY STANDARD: 3TJATAC; REFERENCE NO: 3TX4210- 0D, UNK	100
0130970	DIODE:4210-OM;SUPPRESSION;3TJATDC , DIODE: TYPE: SUPPRESSION; INDUSTRY STANDARD: 3TJATDC; SUPPL P/N: 4210-OM	100
0131032	DIODE:TA536;STACK;VOLTAGE DROPPING , DIODE: TYPE: STACK; REFERENCE NO: TA536, UNK; VOLTAGE DROPPING	100

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0131033	DIODE:TA542;STACK;VOLTAGE DROPPING , DIODE: TYPE: STACK; SUPPL P/N: TA542; VOLTAGE DROPPING SS154E110-G4,8-180S	100
0131034	DIODE:TA540;STACK;VOLTAGE DROPPING SSI , DIODE: TYPE: STACK; SUPPL P/N: TA540; VOLTAGE DROPPING SSI 172E1100-G4	100
0131035	DIODE:ESAH73-06C;B3124UPS , DIODE: INDUSTRY STANDARD: B3124UPS; REFERENCE NO: ESAH73-06C, UNK; STOCK NO. 302 678	100
0131051	DIODE:HTAM420-558P0001;PUMP;G1736/UR , DIODE: TYPE: PUMP; INDUSTRY STANDARD: G1736/UR; REFERENCE NO: G1736/UR, UNK; SUPPL P/N: HTAM420-558P0001; HVNS 103024 PRA.19, ITEM NO: 91004	100
0131070	DIODE LGHT EMIT:21.5001.008;DIA 3 MM , DIODE, LIGHT EMITTING: DIMENSIONS: DIA 3 MM; SHAPE: DOME; COLOR: GREEN; REFERENCE NO: 21.5001.008, UNK	100
0131071	DIODE,RED LIGHT EMITNG 3MM 21-5001-009 , DIODE, LIGHT EMITTING: DIMENSIONS: DIA 3 MM; SHAPE: DOME; COLOR: RED; REFERENCE NO: 21.5001.009, UNK; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	100
0131080	DIODE: RECTIFIER;SSIL12120536B , DIODE: TYPE: RECTIFIER; INDUSTRY STANDARD: SSIL12120536B; DRAWING NO: 26-6531/5-10000 REV 1; RR ON "A" WHEEL	100
0131081	DIODE:6531-10100; RECTIFIER;SSIL13120536A , DIODE: TYPE: RECTIFIER; INDUSTRY STANDARD: SSIL13120536A; DRAWING NO: 26-6531/3-10100 REV 1; REFERENCE NO: 6531-10100, UNK; RR ON "B" WHEEL	100
0131122	ASSY:ET142928; THYRISTOR/DIODE , ASSEMBLY: TYPE: THYRISTOR/DIODE; SUPPL P/N: ET142928; INDUSTRY STANDARD: IRKHF72-08DL; CURRENT: 90 A	100
0131153	DIODE: IXYSDSA17-16A;SHOTTRY, FOR DSAI , DIODE: INDUSTRY STANDARD: IXYSDSA17-16A; SUPPL P/N: HIEE12097; SHOTTRY, FOR DSAI 17- 16A EXCITER	100

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0131273	DIODE:CONVERTER;DSA17-16A , DIODE: TYPE: CONVERTER; INDUSTRY STANDARD: DSA17-16A; REFERENCE NO: DSA17-16A, UNK; SUPPL P/N: HIEE 12097; EXCITER, HIGH VOLTAGE PROTECTION	100
0138299	HEAT SINK:AL;TO MOUNT A AND B DIODES ON , HEAT SINK: MATERIAL: AL; TO MOUNT A AND B DIODES ON DIODE WHEEL; FOR GENERATOR MAIN EXITER ROTATING RECTIFIER	100
0144372	DIODE:6FQ 9893-0A/SED62;RECTIFIER , DIODE: TYPE: RECTIFIER; SUPPL P/N: 6FQ 9893-0A/SED62; POWER SUPPLY (PLUG IN TYPE); ON GOVERNER	100
0144375	POWER SUPPLY: SSL2883NK15;DIODE, ASSEMBLY , POWER SUPPLY: REFERENCE NO: SSL2883NK15, UNK; DIODE, ASSEMBLY	100
0146501	DIODE LGHT EMIT:KRE-222;RD;YELLOW;220 V , DIODE, LIGHT EMITTING: DIMENSIONS: DIA 25 X LG 70 MM; SHAPE: RD; COLOR: YELLOW; POTENTIAL: 220 V; SUPPL P/N: KRE-222; INDICATOR WITH LENS	100
0146502	DIODE LGHT EMIT:KRE-22A-4;RD;YELLOW , DIODE, LIGHT EMITTING: DIMENSIONS: DIA 25 X LG 70 MM; SHAPE: RD; COLOR: YELLOW; POTENTIAL: 24 V; SUPPL P/N: KRE-22A-4; INDICATOR 4 LED WITH LENS FOR UNIT 1 DC BOARD GLOLEC	100
0220912	DIODE LGHT EMIT:DIA 60 X LG 60 MM;DOME , DIODE, LIGHT EMITTING: DIMENSIONS: DIA 60 X LG 60 MM; SHAPE: DOME; COLOR: WHITE; MODEL NO: D-R290, UNK; SUPPL P/N: BR290SB DIODE; FOR USE WITH DURAG SYSTEM 3, LIGHT SOURCE, SUPER WIDE BAND (SWBD), OPACITY AND DUST CONCENTRATION METER MEASURING HEAD	100
0205412	MODULE:6FQ1172-2A;CONTROL;I/P 24 VDC, MODULE: TYPE: CONTROL; INPUT: 24 VDC; OUTPUT: 24 VDC; POWER SOURCE: 24 VDC; SUPPL P/N: 6FQ1172-2A; A-ASB 12; BINARY, LOWER/RAISE	100

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0205413	MODULE:6FQ1284-2A;CONVERTER;I/P 0-10 VDC , MODULE: TYPE: CONVERTER; INPUT: 0-10 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; SUPPL P/N: 6FQ1284-2A; A-AUI 22	100
0205414	MODULE:6FQ1625-2A;CONTROLLER;24 VDC, MODULE: TYPE: CONTROLLER; INPUT: 0-10 V DC; OUTPUT: 0-10 V DC; POWER SOURCE: 24 V DC; SUPPL P/N: 6FQ1625-2A; A- ARP 11; ANALOG, PRESSURE	100
0205983	MODULE:6ES7321-1BH02-0AA0;DIGITAL INPUT , MODULE: TYPE: DIGITAL INPUT; INPUT: 24 VDC; POWER SOURCE: 24 VDC; SUPPL P/N: 6ES7321- 1BH02-0AA0; BINARY OUTPUT	100
0207807	MODULE:6ES7360-3AA01-0AA0;INTERFACE , MODULE: TYPE: INTERFACE; POWER SOURCE: 24 VDC; SUPPL P/N: 6ES7360- 3AA01-0AA0; THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED	100
0207809	MODULE:6ES7361-3CA01-0AA0;INTERFACE , MODULE: TYPE: INTERFACE; POWER SOURCE: 24 VDC; SUPPL P/N: 6ES7361- 3CA01-0AA0; THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED	100
0207810	MODULE:6ES7 322-1BH01-0AA0;24 VAC , MODULE: TYPE: DIGITAL OUTPUT; OUTPUT: 24 VDC 0.5 A; POWER SOURCE: 24 VAC; SUPPL P/N: 6ES7 322-1BH01-0AA0; THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED	100
0207821	MODULE:6ES7321-1BL00-0AA0;DIGITAL INPUT , MODULE: TYPE: DIGITAL INPUT; INPUT: 24 VDC; POWER SOURCE: 24 VDC; SUPPL P/N: 6ES7321-1BL00-0AA0; THE ITEM MUST BE PROTECTIVE PACKED AND CLEARLY MARKED, 32 DIG INP INPUT	100
0213674	MODULE:3BHT300036R1;ANALOG INPUT;24 VDC , MODULE: TYPE: ANALOG INPUT; POWER SOURCE: 24 VDC; MODEL NO: AI625, UNK; SUPPL P/N: 3BHT300036R1; MA INPUT	100

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0213675	MODULE:3BHT2300051R1;ANALOG OUTPUT , MODULE: TYPE: ANALOG OUTPUT; INPUT: 24 VDC; OUTPUT: 0-24 MA; POWER SOURCE: 24 VDC; SUPPL P/N: 3BHT2300051R1; AO650; FOR CPP PLC ON THE AC160	100
0213960	MODULE:3BHT300006R1;OUTPUT;I/P 24 VDC , MODULE: TYPE: OUTPUT; INPUT: 24 VDC; OUTPUT: 24 VDC; POWER SOURCE: 24 VDC; SUPPL P/N: 3BHT300006R1	100
0213961	MODULE:3BHT3000002R1;INPUT;I/P 24 VDC , MODULE: TYPE: INPUT; INPUT: 24 VDC; OUTPUT: 24 VDC; POWER SOURCE: 24 VDC; SUPPL P/N: 3BHT3000002R1	100
0213962	MODULE:3BSE005831R1;PROCESSOR;I/P 24 VDC , MODULE: TYPE: PROCESSOR; INPUT: 24 VDC; OUTPUT: 24 VDC; POWER SOURCE: 24 VDC; SUPPL P/N: 3BSE005831R1	100
0215294	MODULE:3BSE008510R1;DIGITAL I/O;24 VDC , MODULE: TYPE: DIGITAL I/O; OUTPUT: 24 VDC; POWER SOURCE: 24 VDC; APPLICATION: BOILER FEED PUMP VARIABLE SPEED DRIVES; SPECIFICATION: 800PEC; REFERENCE NO: DO810, UNK; SUPPL P/N: 3BSE008510R1; FOR 5800	100
0215295	MODULE:3BSE008538R1;24 VDC;800PEC , MODULE: TYPE: MODULE BUS TERMINATOR; POWER SOURCE: 24 VDC; APPLICATION: BOILER FEED PUMP VARIABLE SPEED DRIVES; SPECIFICATION: 800PEC; REFERENCE NO: TB807, UNK; SUPPL P/N: 3BSE008538R1; FOR 5800 I/O	100
0215296	MODULE:3BSE013208R1;MODULE BUS CLUSTER , MODULE: TYPE: MODULE BUS CLUSTER; POWER SOURCE: 24 VDC; APPLICATION: ACS500; DIMENSIONS: WD 58 X HT 170 X DP 122 MM; REFERENCE NO: TB820 V2, UNK; SUPPL P/N: 3BSE013208R1; DIGITAL DATA INPUT/OUTPUT; ABB SOLE SOURCE IN PLACE EFFECTIVE 01/04/2016 TO 31/03/2022; KUSILE AGREEMENT DOCUMENT ATTACHED; DOC NO: 240-118824127	100

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0215297	MODULE:3BSE008516R1;ANALOG INPUT;24 VDC, MODULE: TYPE: ANALOG INPUT; INPUT: 4-20 MA; POWER SOURCE: 24 VDC; REFERENCE NO: AI820, UNK; SUPPL P/N: 3BSE008516R1; FOR 5800 I/O, DIGITAL OUTPUT	100
0215365	MODULE PWR SUP:6ES7405-0KA01-0AA0 , MODULE, POWER SUPPLY: INPUT: 240 VAC; OUTPUT: 24 VDC; SUPPL P/N: 10A,S7-400 PS 405; 6ES7405-0KA01-0AA0; WIDE RANGE	100
0217361	MODULE PWR SUP:6EP1-332-1SH42 , MODULE, POWER SUPPLY: INPUT: 110/240 VAC; OUTPUT: 24 VDC 2.5 A; SUPPL P/N: 6EP1-332-1SH42; SIEMENS LOGO, STABILIZER	100
0217362	MODULE:6ED1-052-1MD00-0BA4;I/P 24 V , MODULE: TYPE: PROGRAMMABLE LOGIC CONTROLLER; INPUT: 24 V; POWER SOURCE: 24 VDC; SUPPL P/N: 12/24 RC; 6ED1-052-1MD00-0BA4; 8 DI / 4 DO; LOGO, 8X24V DIGITAL INPUT, RELAY/DIGITAL X4 OUTPUT	100
0217363	MODULE:6ED1-055-1NB10-0BA0;I/P 24 V , MODULE: TYPE: 16 CHANNEL DIGITAL I/O; INPUT: 24 V; POWER SOURCE: 24 V DC; SUPPL P/N: 6ED1-055-1NB10-0BA0; DM16 24R; LOGO, EXPANSION 8 DI / 8 DO, 8 X DIGITAL INPUT, RELAY/DIGITAL X8 OUTPUT	100
0218258	MODULE:140072-04;POSITION MONITOR;24 V , MODULE: TYPE: POSITION MONITOR; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 V; SUPPL P/N: 140072-04; 3500/45; 7.7W, MUST BE CHECKED BY RECEIVING BEFORE BEING PLACED ON THE SHELF	100
0218265	MODULE:140734-02;I/P 24 VDC;O/P 4-20 MA , MODULE: TYPE: PROXIMITOR SEISMIC MONITOR; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 V; SUPPL P/N: 140734-02; 3500/42M	100

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0218813	MODULE PWR SUP:SL 2.5;I/P 220 VAC , MODULE, POWER SUPPLY: INPUT: 220 VAC; OUTPUT: 24 VDC; SUPPL P/N: SL 2.5; FOR USE WITH PLANT INFORMATION MANAGEMENT SYSTEM	100
0218814	MODULE:943011-012;SWITCH;24 VDC , MODULE: TYPE: SWITCH; POWER SOURCE: 24 VDC; SUPPL P/N: 943011-012; FOR USE WITH PLANT INFORMATION MANAGEMENT SYSTEM, EAGLE FIREWALL, 100 MB PS OUTPUT	100
0218815	MODULE:943746-002;SWITCH;24 VDC , MODULE: TYPE: SWITCH; POWER SOURCE: 24 VDC; SUPPL P/N: 943746-002; FOR USE WITH PLANT INFORMATION MANAGEMENT SYSTEM, COMPLETE BACKBONE MICE 3000, BUS INPUT, 10 MB PS OUTPUT	100
0218816	MODULE:CONVERTER;220 VAC;FOR USE WITH , MODULE: TYPE: CONVERTER; POWER SOURCE: 220 VAC; SUPPL P/N: TSC2310; FOR USE WITH PLANT INFORMATION MANAGEMENT SYSTEM, UTP TO ST MULTIMODE MEDIA TO STATION ROUTER, FIBER OPTIC INPUT, 10 MB PS OUTPUT	100
0218817	MODULE:943764-001;SWITCH;24 VDC , MODULE: TYPE: SWITCH; POWER SOURCE: 24 VDC; SUPPL P/N: 943764-001; FOR USE WITH PLANT INFORMATION MANAGEMENT SYSTEM, MEDIA MICE SWITCHES, 4 X 100 BASE-FX, MULTI MODE F/O, FIBER OPTIC INPUT, 10 MB PS OUTPUT	100
0218818	MODULE:943722-001;SWITCH;24 VDC , MODULE: TYPE: SWITCH; POWER SOURCE: 24 VDC; SUPPL P/N: 943722-001; FOR USE WITH PLANT INFORMATION MANAGEMENT SYSTEM, MEDIA MICE, 4 X 10 BASE-TX, TP CABLE, RJ45 SOCKETS, UTP CABLE INPUT, 10 MB PS OUTPUT	100
0220633	MODULE:6GK7343-1EX11- 0XEO;PROCESSOR , MODULE: TYPE:	100

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	PROCESSOR; POWER SOURCE: 24 VDC; SUPPL P/N: 6GK7343-1EX11-0XEO; CP343-1; SIEMENS ONLY, ETHERNET INPUT, BINARY OUTPUT	
0220636	MODULE:6ES7322-1BL00-0AA0;DIGITAL OUTPUT , MODULE: TYPE: DIGITAL OUTPUT; POWER SOURCE: 24 VDC; DIMENSIONS: WD 120 X LG 130 X THK 40 MM; SUPPL P/N: 6ES7322-1BL00-0AA0; SIEMENS ONLY, 32 CH OUTPUT	100
0220637	MODULE:6ES7331-7KF02-OABO;ANALOG INPUT, MODULE: TYPE: ANALOG INPUT; POWER SOURCE: 24 VDC; SUPPL P/N: 6ES7331-7KF02-OABO; 8 INPUTS, SIEMENS ONLY, TYPE K INPUT	100
0223836	MODULE PWR SUP:307-1EAOO-0AAO , MODULE, POWER SUPPLY: INPUT: 220 VAC; OUTPUT: 24 VDC 5 A; SUPPL P/N: 307- 1EAOO-0AAO; PS307	100
0223924	MODULE:6ES7321-1FH00-0AA0;SIEMENS ONLY , MODULE: TYPE: 16 CHANNEL DIGITAL INPUT; INPUT: 120/230 VAC; SUPPL P/N: 6ES7321-1FH00-0AA0; SIEMENS ONLY	100
0223925	MODULE COMM:6ES7341-1BH01-0AE0 , MODULE, COMMUNICATION: SUPPL P/N: 6ES7341-1BH01-0AE0; CP342; SIEMENS ONLY, BINARY INPUT, BINARY OUTPUT	100
0223926	MODULE:6GK1-502-3CB10;SIEMENS ONLY, MODULE: TYPE: CONVERTER/TRANSCIEVER; SUPPL P/N: 6GK1-502-3CB10; OLM/G12V3; SIEMENS ONLY, BINARY INPUT, BINARY OUTPUT	100
0223928	MODULE:6ES7315-2AG10- 0AB0;CPU;SIEMENS , MODULE: TYPE: CPU; SUPPL P/N: 6ES7315-2AG10-0AB0; S7-300 315-2DP; SIEMENS ONLY	100
0224887	MODULE PWR SUP:6ES7307-1KA01-OAAO , MODULE, POWER SUPPLY: TYPE: CONTROL; INPUT: 230 VAC; OUTPUT: 24 VDC; SUPPL P/N: 6ES7307-1KA01-OAAO	100
0225907	MODULE:6ES7315-2AF03-OABO;CPU;I/P 24 VDC , MODULE: TYPE: CENTRAL	100

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	PROCESSING UNIT; INPUT: 24 VDC; POWER SOURCE: 24 VDC; SUPPL P/N: 6ES7315-2AF03-OABO; USED ON FIRE PUMPS S7 PLC, DIGITAL OUTPUT	
0225908	MODULE:6ES7 153-2AR01-OXAO;INTERFACE , MODULE: TYPE: INTERFACE; INPUT: 24 VDC; POWER SOURCE: 24 VDC; SUPPL P/N: 6ES7 153-2AR01-OXAO; USED ON FIRE PUMPS S7 PLC, DIGITAL OUTPUT	100
0225909	MODULE:6ES7 322 -1HH01-OAAO;I/P 24 VDC , MODULE: TYPE: DIGITAL OUTPUT; INPUT: 24 VDC; POWER SOURCE: 24 VDC; SUPPL P/N: 6ES7 322 -1HH01-OAAO; S7 PLC; USED ON FIRE PUMPS	100
0226013	MODULE:3BHT300051R1;ANALOG O/P MODULE , MODULE: TYPE: ANALOG O/P MODULE; POWER SOURCE: 24 VDC; MODEL NO: A06508 CH, UNK; SUPPL P/N: 3BHT300051R1; MA OUTPUT	100
0231704	MODULE PWR SUP:133300-01;I/P 24 V , MODULE, POWER SUPPLY: INPUT: 24 V; OUTPUT: 24 V; SUPPL P/N: 133300-01; LV DC PIM	100
0231705	MODULE PWR SUP:133292-01;I/P 380 V , MODULE, POWER SUPPLY: INPUT: 380 V; OUTPUT: 24 V; SUPPL P/N: 133292-01; DC	100
0234002	MODULE:6ES7 331-7KF02-0AB0;ANALOG INPUT , MODULE: TYPE: ANALOG INPUT; SUPPL P/N: 6ES7 331-7KF02-0AB0; SIM331 AI 8X12BIT	100
0234022	MODULE:6ES7 195-7KF00-0XA0;S7-300 PLC , MODULE: TYPE: SIMATIC SEPARATOR; APPLICATION: S7-300 PLC; SUPPL P/N: 6ES7 195-7KF00-0XA0; SAFETY PROTECTOR; BUS ET200	100
0237378	MODULE:6ES79601AA000XA0;SIMATIC S7-400 , MODULE: TYPE: SIMATIC S7-400; POWER SOURCE: 24 V; APPLICATION: SYNC SUBMODULE; SUPPL P/N: 6ES79601AA000XA0	100

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0237379	MODULE:6ES7323-1BL00-0AA0;DIGITAL SM323 , MODULE: TYPE: DIGITAL SM323; POWER SOURCE: 24 VDC; APPLICATION: OPTICALLY ISOLATED 16DI; SPECIFICATION: S7-300; SUPPL P/N: 6ES7323-1BL00-0AA0	100
0238425	MODULE:6GK1502-3CA10;PROFIBUS;24 V , MODULE: TYPE: PROFIBUS; POWER SOURCE: 24 V; SUPPL P/N: 6GK1502-3CA10	100
0238426	MODULE PWR SUP:6EP1334-2BAOO, MODULE, POWER SUPPLY: SUPPL P/N: 6EP1334-2BAOO	100
0238430	MODULE:6GK1105-2ABOO;24 V;OSM TP62 , MODULE: POWER SOURCE: 24 V; SUPPL P/N: 6GK1105-2ABOO; OSM TP62	100
0238432	MODULE:6GK-443-1EX11-OXEO;24 V;S7 CP , MODULE: POWER SOURCE: 24 V; SUPPL P/N: 6GK-443-1EX11-OXEO; S7 CP 443-1	100
0238444	MODULE:2X512MBDDR266MHZCL2.5ECC;24 V , MODULE: TYPE: RAM MEMORY; POWER SOURCE: 24 V; SUPPL P/N: 2X512MBDDR266MHZCL2.5ECC	100
0238448	MODULE:6ES7-417-4HT14-OAB;CPU 417;24 V , MODULE: TYPE: CPU 417-4H; INPUT: 4-20 MA; OUTPUT: 4-20 MA; POWER SOURCE: 24 V; SUPPL P/N: 6ES7-417-4HT14-OABO	100
0238450	MODULE:6GK1105-3ABOO;24 V;TYPE ESM TP80 , MODULE: POWER SOURCE: 24 V; SUPPL P/N: 6GK1105-3ABOO; TYPE ESM TP80	100
0238784	MODULE:6ES7332-5HF00-0AB0;ANALOG , MODULE: TYPE: ANALOG; SUPPL P/N: 6ES7332-5HF00-0AB0; TYPE SIMATIC S7-300, SM 332, OPTICALLY ISOLATED, 8 AO U/I; DIAGNOSTICS; RESOLUTION 11/12 BITS, 40 PIN, REMOVE/INSERT W ACTIVE BACKPLANE BUS	100
0238786	MODULE:6ES7960-1AA04-0XA0;CPU;TYPE , MODULE: TYPE: CENTRAL PROCESSING	100

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	UNIT; DIMENSIONS: WD 54 X LG 128 X THK 20 MM; SUPPL P/N: 6ES7960-1AA04-0XA0; TYPE SIMATIC S7-400H, SYNC SUBMODULE FOR PATCH CABLES UP TO 10M	
0238793	MODULE:6ES7392-1AJ00-0AA0;SIMATIC , MODULE: TYPE: FRONT CONNECTOR; SUPPL P/N: 6ES7392-1AJ00-0AA0; SIMATIC S7-300, FOR SIGNAL MODULES WITH SCREW CONTACTS, 20-PIN	100
0238828	MODULE:6ES7195-7HD10-0XA0;BUS UNIT, MODULE: TYPE: BUS UNIT; SUPPL P/N: 6ES7195-7HD10-0XA0; SIMATIC DP; INSERT REMOVE WHILE OPERATING MODE RUN; TO BE CHECKED AT RECEIVING BEFORE BEING PLACED ON SHELF	100
0238829	MODULE PWR SUP:6ES7405-0KA02-0AA0 , MODULE, POWER SUPPLY: TYPE: POWER SUPPLY; INPUT: 220 VDC; OUTPUT: 24 VDC 1 A; APPLICATION: MCC REDUNDANT PLC; SPECIFICATION: POWER SUPPLY MODULE; HARDWARE: S7-400 CPU; SUPPL P/N: 6ES7405-0KA02-0AA0; WIDE RANGE, USED ON GAS 1 PLANT	100
0239067	MODULE:6ES7331-7NF10-0AB0;ANALOG INPUT, MODULE: TYPE: ANALOG INPUT; POWER SOURCE: 24 VDC; SUPPL P/N: 6ES7331-7NF10-0AB0; USED ON SIMATIC S7-300 SYSTEM ON GAS 1 PLANT	100
0239068	RACK:6ES7400-2JA00-0AA0;MODULE;STL , RACK: TYPE: MODULE; DIMENSIONS: WD 290 X LG 480 X THK 30 MM; MATERIAL: STL; SUPPL P/N: 6ES7400-2JA00-0AA0; USED ON SIMATIC S7 SIEMENS SYSTEM OP GAS 1 PLANT	100
0241226	MODULE:6GK1503-3CA00;PROFIBUS;24 V , MODULE: TYPE: PROFIBUS; INPUT: 4-20 MA; OUTPUT: 4-20 MA; POWER SOURCE: 24 V; SUPPL P/N: 6GK1503-3CA00	100
0242417	MODULE:AMPLIFIER;I/P 5.4-10 OHM;24 VDC , MODULE: TYPE: AMPLIFIER; INPUT: 5.4-10 OHM; OUTPUT: 1.8-2.2 A; POWER SOURCE: 24 VDC	100

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0251654	MODULE:6ES7326-2BF10-OAB0;O/P 0.5-2 A , MODULE: TYPE: DIGITAL OUTPUT; INPUT: 70-100 MA; OUTPUT: 0.5-2 A; POWER SOURCE: 24 VDC; APPLICATION: AUTOMATION/CONTROL SYSTEM; DIMENSIONS: WD 80 X HT 125 X DP 120 MM; REFERENCE NO: SM 326; SUPPL P/N: 6ES7326-2BF01-OAB0; 6ES7326-2BF10- OAB0; FAILSAFE FOR SIMATIC S7F SYSTEMS WITH DIAGNOST INTERRUPT, 1 X 40 PIN, PLC	100
0251654	MODULE:6ES7326-2BF10-OAB0;O/P 0.5-2 A , MODULE: TYPE: DIGITAL OUTPUT; INPUT: 70-100 MA; OUTPUT: 0.5-2 A; POWER SOURCE: 24 VDC; APPLICATION: AUTOMATION/CONTROL SYSTEM; DIMENSIONS: WD 80 X HT 125 X DP 120 MM; REFERENCE NO: SM 326; SUPPL P/N: 6ES7326-2BF01-OAB0; 6ES7326-2BF10- OAB0; FAILSAFE FOR SIMATIC S7F SYSTEMS WITH DIAGNOST INTERRUPT, 1 X 40 PIN, PLC	100
0252636	MODULE COMM:6GK15033CB00 , MODULE, COMMUNICATION: TYPE: OPTICAL LINK PROFIBUS; APPLICATION: STACKER/SPREADER DHP; REFERENCE NO: OLM/G12 V4.0; SUPPL P/N: 6GK15033CB00; W 1 RS485 & 2 GLASS-FOC- INTERFACES (4 BFOC-SOCKETS) FOR STANDARD DISTANCES UP TO 2850 M, WITH SIGNAL, CONTACT & MEASURING OUTPUT	100
0252828	MODULE:6ES7972-0BB60-0XA0;PROFIBUS , MODULE: TYPE: PROFIBUS; APPLICATION: SIMATIC S7 NET, 12 MS, 90 DEG ANGLE CONNECTORS; SUPPL P/N: 6ES7972-0BB60- 0XA0	100
0253360	MODULE:6RICSKRH006A;CONFIGURATION CARD , MODULE: TYPE: CONFIGURATION CARD; APPLICATION: UPS; SUPPL P/N: 6RICSKRH006A	100
0253374	MODULE:6RICAP13767A;IGBT;I/P 600 V 300 A , MODULE: TYPE: IGBT; INPUT: 600 V 300 A;	100

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	APPLICATION: UPS; REFERENCE NO: NF 13767; SUPPL P/N: 6RICAP13767A	
0253442	MODULE:3UF7400-1AA00-0;ANALOG OUTPUT , MODULE: TYPE: ANALOG OUTPUT; SUPPL P/N: 3UF7400-1AA00-0	100
0255906	MODULE:6ES7153-2BA02-0XB0;SIMATIC DP, MODULE: TYPE: ET 200M INTERFACE IM 153-2; SUPPL P/N: 6ES7153-2BA02-0XB0; SIMATIC DP, HIGH FLATURE FOR MAX 12 S7-300, WITH REDUNDANCY; TIME STAMP ING; FIT FOR ISOCHROME MODE NEW FEATURES: 12 MODULES/ STATION SLAVE INITIATIVE; FOR SWITCHES AND DRIVES; EXTENDED DATA FOR HART SEC ONDARY VARIABLES OPERATION WITH 64PT MODULES EXTENDED TIMESTAMPS WITH 32 SIGNALS/ SLOT	100
0255907	MODULE:6ES7331-7KF02-0AB0;ANALOG INPUT , MODULE: TYPE: ANALOG INPUT; SUPPL P/N: 6ES7331-7KF02-0AB0; SIMATIC S7-300, SM331; OPTICALLY ISOLATED; 8AI, RESOLUTION 9/12/14 BITS; U/ I/ THERMOCOUPLE / RESISTANCE INTERRUPTED DIAGNOSTICS, 1 X 20 PIN, REMOVE/ INSERT W BACKPLANE BUS	100
0256392	MODULE:6ES7322-1HH01-0AA0;OPTICALLY , MODULE: TYPE: DIGITAL O/P, SM 322; APPLICATION: DHP SIMATIC S7-300; SUPPL P/N: 6ES7322-1HH01-0AA0; OPTICALLY ISOLATED 16DO; RELAY CONTACTS, 1 X 20 PIN	100
0256393	MODULE:6ES7972-0AA01-0XA0;REPEATER RS485 , MODULE: TYPE: REPEATER RS485; APPLICATION: DHP SIMATIC DP; SUPPL P/N: 6ES7972-0AA01-0XA0; FOR THE CONNECTION OF PROFIBUS/MPI BUS SYSTEMS WITH MAXIMUM 31 NODES; 12 MBIT/S, DEGREE OF PROTECTION IP20	100
0501089	MODULE:3RW4447-6BC45;SOFT STATER , MODULE: TYPE: SOFT STATER; POWER	100

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	SOURCE: 2400 VDC; 250KW; MANUF P/N: 3RW4447-6BC45; CLASS 10	
0501124	MODULE:3UL2203-1B;SUMMATION CT , MODULE: TYPE: SUMMATION CT; MANUF P/N: 3UL2203-1B	100
0501125	MODULE:3UF7500-1AA00-0 , MODULE: TYPE: SIMOCODE EARTH FAULT; MANUF P/N: 3UF7500-1AA00-0	100
0501127	MODULE:3UF7114-1BA00-0;CURRENT MEASURING, MODULE: TYPE: CURRENT MEASURING; INPUT: 63-630 A; MANUF P/N: 3UF7114-1BA00-0; SIMOCODE CT/VT; V BUS BAR	100
0501522	MODULE:6ES7221-7KF02-OABO;PLC , MODULE: APPLICATION: PLC; MANUF P/N: 6ES7221-7KF02-OABO	100
0501523	MODULE:6ES7322-1BH02-0AA0;DIGITAL INPUT, MODULE: TYPE: DIGITAL INPUT; APPLICATION: PLC; MANUF P/N: 6ES7322- 1BH02-0AA0	100
0501524	MODULE:6ES7153-2BB00-0AA0;ET 200;PLC , MODULE: TYPE: ET 200; APPLICATION: PLC; MANUF P/N: 6ES7153-2BB00-0AA0	100
0502239	MODULE:6ES7315-2EH13-0AB0;SIMATIC CP315 , MODULE: TYPE: SIMATIC CP315; MANUF P/N: 6ES7315-2EH13-0AB0; FOR USE ON SIEMENS CONTROL CABINET	100
0503025	MODULE:PC D232;INPUT/OUTPUT;FOR ABB , MODULE: TYPE: INPUT/OUTPUT; MANUF P/N: 3BHE022293R0101; PC D232; FOR ABB UNITROL 6800 EXCITATION SYSTEM	100
0552769	MODULE:3BDH000512R1;INTERFACE;I/P 24 VDC, MODULE: TYPE: INTERFACE; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; DIMENSIONS: WD 400 X LG 200 MM; SPECIFICATION: CCR70; MANUF P/N: 3BDH000512R1	100
0552770	MODULE:3BDH000554R1;O/P 4-20 MA;24 VDC, MODULE: OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; SPECIFICATION: SD891;	100

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	MANUF P/N: 3BDH000554R1; ID 300MM X LG 100MM	
0552771	MODULE:DA501;DIGITAL/ANALOG I/O;S 500 , MODULE: TYPE: DIGITAL/ANALOG I/O; INPUT: 24 VDC; OUTPUT: 4-20 MA; DIMENSIONS: WD 150 X LG 250 MM; SPECIFICATION: S 500; MANUF P/N: DA501	100
0552772	MODULE:TB521;CPU;O/P 4-20 MA;PLC;AC 500, MODULE: TYPE: CPU; OUTPUT: 4-20 MA; APPLICATION: PLC; DIMENSIONS: WD 150 X LG 250 MM; SPECIFICATION: AC 500; MANUF P/N: TB521	100
0552773	MODULE:3BDH000555R1;O/P 4-20 MA;24 VDC , MODULE: OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; SPECIFICATION: SD894; MANUF P/N: 3BDH000555R1	100
0552774	MODULE:3BDH000720R1;ANALOG INPUT , MODULE: TYPE: ANALOG INPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; MANUF P/N: 3BDH000720R1	100
0552775	MODULE:BINARY OUTPUT;I/P 24 VDC, MODULE: TYPE: BINARY OUTPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; MANUF P/N: 3BDH000733R1	100
0552776	MODULE:3BDH000723R1;ANALOG OUTPUT , MODULE: TYPE: ANALOG OUTPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; SPECIFICATION: CA010; MANUF P/N: 3BDH000723R1	100
0552777	MODULE:3BD000606R1;CPU;I/P 24 VDC , MODULE: TYPE: CPU; INPUT: 24 VDC; OUTPUT: 4-20 MA; SPECIFICATION: AC 870; MANUF P/N: 3BD000606R1; APPLICATION: MELODY800XA	100
0552778	MODULE:CM272;COMMUNICATION;I/P 24 VDC , MODULE: TYPE: COMMUNICATION; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: PLC; DIMENSIONS: WD 150 X LG 200 MM; SPECIFICATION: PROFIBUS DP; MANUF P/N: CM272	100

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0552779	MODULE:3BDH000616R1;I/P 24 VDC;CI 150 , MODULE: INPUT: 24 VDC; OUTPUT: 4-20 MA; DIMENSIONS: WD 300 X LG 100 MM; SPECIFICATION: CI 150; MANUF P/N: 3BDH000616R1	100
0552780	MODULE:AI 561;ANALOG INPUT CARD;24 VDC , MODULE: TYPE: ANALOG INPUT CARD; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: PLC; DIMENSIONS: WD 150 X LG 250 MM; MANUF P/N: AI 561	100
0552781	MODULE:3BDH000730R1;BINARY INPUT , MODULE: TYPE: BINARY INPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; DIMENSIONS: WD 300 X LG 100 MM; SPECIFICATION: CBI 20; MANUF P/N: 3BDH000730R1	100
0565150	MODULE:SIMATIC NET S612;O/P 0.25 A;24 V , MODULE: TYPE: SIMATIC NET S612; OUTPUT: 0.25 A; POWER SOURCE: 24 V; APPLICATION: NETWORK T3000; MANUF P/N: 6GK5612-0BA00-2AA3; USED FOR PROTECTION OF DEVICES AND NETWORKS IN AUTOMATION; AND PROTECTION OF INDUSTRIAL COMMUNICATION VIA VPN (MAX. 32 UNITS) AND FIREWALL	100
0566343	MODULE:MCS2;ESP CONTROLLER;O/P 4-20 MA , MODULE: TYPE: ESP CONTROLLER; INPUT: 24VDC 110VAC; OUTPUT: 4-20 MA; POWER SOURCE: 20-0-20VAC; 47-63HZ; APPLICATION: ELECTROSTATIC PRECIPITATOR; DIMENSIONS: WD 400 X HT 250 X THK 100 MM; REFERENCE NO: MCS2	100
0568023	MODULE:MODULE BUS;9-30 VDC;CONVERTER , MODULE: TYPE: MODULE BUS; POWER SOURCE: 9-30 VDC; APPLICATION: CONVERTER; DIMENSIONS: WD 67 X LG 100 X THK 22 MM; SPECIFICATION: MOXA, MGATE MB3170	100
0568024	MODULE:ETHERNET EXTENDER;12-48 VDC , MODULE: TYPE: ETHERNET EXTENDER;	100

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	POWER SOURCE: 12-48 VDC; MANUF P/N: 3621-0110	
0575240	MODULE COMM:3UF7400-1AA0-0;SWITCHGEAR , MODULE, COMMUNICATION: TYPE: ANALOG EXTENTION; INPUT: 2 ANALOG 4-20MA; APPLICATION: SWITCHGEAR; MANUF P/N: 3UF7400-1AA0-0; IP20	100
0575252	MODULE COMM:3UF7300-1AU00-0 , MODULE, COMMUNICATION: TYPE: DIGITAL EXTENTION; INPUT: 4 DIGITAL; OUTPUT: 2 RELAY; APPLICATION: SWITCHGEAR; MANUF P/N: 3UF7300-1AU00-0	100
0575274	MODULE:3UF7010-1AU00-0;MOTOR MANAGEMENT, MODULE: TYPE: MOTOR MANAGMENT; INPUT: 24 V; OUTPUT: 100-240 VAC; APPLICATION: MOTOR; DIMENSIONS: 45 X 111 X 124 MM; SPECIFICATION: PRO-V SIMOCODE; MANUF P/N: 3UF7010-1AU00-0	100
0576196	MODULE:176449-02;I/P 24 VDC;O/P 24 VDC , MODULE: TYPE: PROXIMITOR SEISMIC MONITOR; INPUT: 24 VDC; OUTPUT: 24 VDC; POWER SOURCE: 24 VDC; APPLICATION: VIBRATION SYSTEM; DIMENSIONS: WD 24.4 X HT 241.3 X DP 241.8 MM; MANUF P/N: 176449-02; MODEL NO: 3500/42-01-00; 3500/42M PROXIMITOR	100
0579868	MODULE:3BSE008514R0001;DIGITAL OUTPUT , MODULE: TYPE: DIGITAL OUTPUT; MANUF P/N: 3BSE008514R0001; REFERENCE NO: D0820	100
0580043	MODULE:3BSE008508R0001;DI810;24VDC 6MA , MODULE: TYPE: DIGITAL OUTPUT; MANUF P/N: 3BSE008514R0001; REFERENCE NO: D0820	100
0580046	MODULE:3BSE008552R001;DI811;48 VDC , MODULE: TYPE: DIGITAL INPUT; POWER SOURCE: 48 VDC; MANUF P/N: 3BSE008552R001; REFERENCE NO: DI811; 16 CHANNEL	100

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0580047	MODULE:3BSE040662R0001;AI830;24V 80MA, MODULE: TYPE: RESISTANCE TEMPERATURE DETECTOR; POWER SOURCE: 24V 80MA; MANUF P/N: 3BSE040662R0001; 8 CHANNEL; ANALOG INPUT; AI830 RTD INPUT MODULE	100
0580168	MODULE:3BSE008546R0001;AO820;24 V , MODULE: TYPE: ANALOG OUTPUT; OUTPUT: 4-20 MA; POWER SOURCE: 24 V; MANUF P/N: 3BSE008546R0001; REFERENCE NO: AO820; 4 CHANNEL	100
0580171	MODULE:3BHE022294R0103;INTERFACE;24 VDC , MODULE: TYPE: INTERFACE; POWER SOURCE: 24 VDC; MANUF P/N: 3BHE022294R0103; REFERENCE NO: GFD233	100
0580171	MODULE:3BHE022294R0103;INTERFACE;24 VDC , MODULE: TYPE: INTERFACE; POWER SOURCE: 24 VDC; MANUF P/N: 3BHE022294R0103; REFERENCE NO: GFD233	100
0580172	MODULE:3BHB004744R0010;60 V , MODULE: TYPE: CONVERTER CONTROL SYSTEM; POWER SOURCE: 60 V; MANUF P/N: 3BHB004744R0010; REFERENCE NO: MV GDR; XV C517AE	100
0580172	MODULE:3BHB004744R0010;60 V , MODULE: TYPE: CONVERTER CONTROL SYSTEM; POWER SOURCE: 60 V; MANUF P/N: 3BHB004744R0010; REFERENCE NO: MV GDR; XV C517AE	100
0582397	MODULE:123-1017;I/P 24 VDC;400UA , MODULE: TYPE: LOCKOUT POSITION INDICATION; INPUT: 24 VDC; POWER SOURCE: 400UA; APPLICATION: CONVEYOR PULL KEY SYSTEM; DIMENSIONS: WD 150 X LG 28 MM; MANUF P/N: 123-1017	100
0582398	MODULE:123-1020;TERMINATION UNIT , MODULE: TYPE: TERMINATION UNIT; INPUT: 24 VDC; OUTPUT: 24VDC 28MA; POWER SOURCE: 86-1.2 KHZ; APPLICATION: CONVEYOR PULL KEY SYSTEM; MANUF P/N: 123-1020	100

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0582996	MODULE:6R-AATB2742CO2C;SLAVE CONVERTER , MODULE: TYPE: RECTIFIER CONTROL CARD; APPLICATION: 20KVA UPS MACHINES; MANUF P/N: 6R-AATB2742CO2C; SLAVE CONVERTER CONTROL CARD 12P	100
0582997	MODULE:6R-AAT B2083FO2B;RIC SK DRIVER , MODULE: TYPE: INVERTER DRIVER CARD; APPLICATION: 20KVA AROS UPS MACHINES; MANUF P/N: 6R-AAT B2083FO2B; RIC SK DRIVER IGBT	100
0582998	MODULE:6R-AATB2742C03A;MASTER; RIC SK , MODULE: TYPE: RECTIFIER CONTROL CARD; APPLICATION: 20KVA UPS MACHINES; MANUF P/N: 6R-AATB2742C03A; MASTER; RIC SK CONTROL RADDR MUST; 220VDC	100
0582999	MODULE:02600134;SCR;I/P 1200V; 55A , MODULE: TYPE: SCR; INPUT: 1200V; 55A; MANUF P/N: 02600134; SEMIPACK	100
0583000	MODULE:6RICAERH008I03A;INVERTER CONTROL , MODULE: TYPE: INVERTER CONTROL; APPLICATION: 20 KVA UPS MACHINES; MANUF P/N: 6RICAERH008I03A	100
0583107	MODULE:SYSTEM CARD;I/P 20KVA 220VDC , MODULE: TYPE: SYSTEM CARD; INPUT: 20KVA 220VDC; APPLICATION: 20KVA UPS MACHINES; MANUF P/N: 6R_APTB2196A04A; RIC HPS SISTEMA	100
0584570	MODULE:HIEB410237P0006;INTERFACE , MODULE: TYPE: INTERFACE; INPUT: 125VAC/DC; OUTPUT: 125VAC/DC; POWER SOURCE: 1.5 TO 2.5 A; DIMENSIONS: WD 38.8 X HT 77 X DP 58.5 MM; SPECIFICATION: FLKM-D 9 SUB/B; MANUF P/N: HIEB410237P0006; 9 POSITIONS; ANY MOUNTING TYPE	100
0584572	MODULE:HIEB410237P0005;INTERFACE , MODULE: TYPE: INTERFACE; INPUT: 125VAC/DC; OUTPUT: 125VAC/DC; POWER	100

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	SOURCE: 1.5 TO 2.5 A; DIMENSIONS: WD 38.8 X HT 77 X DP 58.5 MM; SPECIFICATION: FLKM-D 9 SUB/B; MANUF P/N: HIEB410237P0006; 9 POSITIONS; ANY MOUNTING TYPE	
0585805	MODULE:COMM BOARD;O/P 5V+/-10% 100MA , MODULE: TYPE: COMM BOARD; OUTPUT: 5V+/-10% 100MA; POWER SOURCE: 5V+/-5%, 100MA VDC; APPLICATION: CBP2; MANUF P/N: 6SX7010-0FF05; INTERFACE TO S7-300	100
0585806	MODULE:EXPANSION BOARD , MODULE: TYPE: EXPANSION BOARD; MANUF P/N: 6SX7010-0KB00	100
0585807	MODULE:MICRO MEMORY CARD;24 V , MODULE: TYPE: MICRO MEMORY CARD; POWER SOURCE: 24 V; APPLICATION: SIMATIC S7-300; MANUF P/N: 6ES7953-8LJ20-0AA0	100
0585808	MODULE:POWER CONVERTER;24 VDC;SIMOVERT, MODULE: TYPE: POWER CONVERTER; POWER SOURCE: 24 VDC; MANUF P/N: 6SE7031-8EF60-7-K11L20; SIMOVERT MASTERDRIVE	100
0585809	MODULE:T400 TECHNOLOGY;24 VDC;REGULATION, MODULE: TYPE: T400 TECHNOLOGY; POWER SOURCE: 24 VDC; MANUF P/N: 6DD1606-0AD0; REGULATION AND CONTROL MODULE	100
0588300	MODULE:CPU;I/P DIGITAL;O/P 16 DIGITAL , MODULE: TYPE: CENTRAL PROCESSING UNIT; INPUT: DIGITAL; OUTPUT: 16 DIGITAL; POWER SOURCE: 24V; APPLICATION: SIMATIC S7-300; DIMENSIONS: DIA 130 X WD 120 X HT 125 MM; MANUF P/N: 6ES7313-6CF03-OABO; CPU 313C-2DP COMPACT CPU WITH MPI; 3 FAST COUNTERS; 1 INTEGRATED DP INTERFACE; 24VDC POWER SUPPLY; 64 KBYTE, MICRO MEMORY CARD REQUIRED	100
0588301	MODULE:VOLTAGE/CURRENT;120-110 V , MODULE: TYPE: VOLTAGE/CURRENT; POWER SOURCE: 120-110 V; MANUF P/N:	100

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	UGE 100; REFERENCE NO: BV27935BG; FOR DETECTION OF GENERATION VOLTAGE	
0588302	MODULE:CURRENT DETECTION;5 V;FOR , MODULE: TYPE: CURRENT DETECTION; POWER SOURCE: 5 V; MANUF P/N: 1GE100; REFERENCE NO: BV 28018BG; FOR DETECTION GENERATOR CURRENT; CURRENT 1A; 5A	100
0588490	MODULE COMM:6AV1242- OABOO;PROCESSOR, MODULE, COMMUNICATION: TYPE: PROCESSOR; MANUF P/N: 6AV1242-OABOO	100
0588491	MODULE COMM:6ES5530- 7LA12;PROCESSOR , MODULE, COMMUNICATION: TYPE: PROCESSOR; MANUF P/N: 6ES5530-7LA12	100
0588492	MODULE COMM:6ES5535- 3BL11;PROCESSOR , MODULE, COMMUNICATION: TYPE: PROCESSOR; MANUF P/N: 6ES5535-3BL11	100
0588493	MODULE:6ES5143-3SA11;PLC INTERFACE , MODULE: TYPE: PLC INTERFACE; MANUF P/N: 6ES5143-3SA11	100
0588494	MODULE:6ES5155-3UA21;CENTRAL CONTROLLER , MODULE: TYPE: CENTRAL CONTROLLER; MANUF P/N: 6ES5155-3UA21	100
0588495	MODULE:6ES5430-4UA12;DIGITAL INPUT , MODULE: TYPE: DIGITAL INPUT; MANUF P/N: 6ES5430-4UA12	100
0588496	MODULE:6ES5451-4UA12;DIGITAL OUTPUT , MODULE: TYPE: DIGITAL OUTPUT; MANUF P/N: 6ES5451-4UA12	100
0588497	MODULE:6ES5451-7LA11;DIGITAL OUTPUT , MODULE: TYPE: DIGITAL OUTPUT; MANUF P/N: 6ES5451-7LA11	100
0588498	MODULE:6ES5460-4UA12;ANALOG INPUT , MODULE: TYPE: ANALOG INPUT; MANUF P/N: 6ES5460-4UA12	100

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0588499	MODULE:6ES5460-7LA11;ANALOG INPUT , MODULE: TYPE: ANALOG INPUT; MANUF P/N: 6ES5460-7LA11	100
0588500	MODULE:6ES5511-5AA14;CPU , MODULE: TYPE: CENTRAL PROCESSING UNIT; MANUF P/N: 6ES5511-5AA14	100
0588501	MODULE:6ES7952-1AK00-0AA0;CPU , MODULE: TYPE: CENTRAL PROCESSING UNIT; APPLICATION: SIMATIC S7; RAM MEMORY CARD FOR S7-400; SUPPL P/N: 6ES7952-1AK00-0AA0	100
0588502	MODULE:6ES5946-3UA22;CPU , MODULE: TYPE: CENTRAL PROCESSING UNIT; MANUF P/N: 6ES5946-3UA22	100
0588502	MODULE:6ES5946-3UA22;CPU , MODULE: TYPE: CENTRAL PROCESSING UNIT; MANUF P/N: 6ES5946-3UA22	100
0588503	MODULE:6ES5947-3UA22;CPU , MODULE: TYPE: CENTRAL PROCESSING UNIT; MANUF P/N: 6ES5947-3UA22	100
0588504	MODULE:6ES5955-3NF11;PLC , MODULE: TYPE: PLC; MANUF P/N: 6ES5955-3NF11	100
0588505	MODULE:7KE4490-2BN;MASTER , MODULE: TYPE: MASTER; MANUF P/N: 7KE4490-2BN	100
0588506	MODULE:7KE490-2BN;MASTER , MODULE: TYPE: MASTER; MANUF P/N: 7KE490-2BN	100
0588507	MODULE:7KE490-2BP;SLAVE , MODULE: TYPE: SLAVE; MANUF P/N: 7KE490-2BP	100
0588815	MODULE:204-2BC10-2AA3;SCALANCE X204- 243 , MODULE: TYPE: NETWORK MANAGED IE SWITCH; MANUF P/N: 204-2BC10-2AA3; SCALANCE X204-243	100
0588816	MODULE:6ES5314-3UH12;PLC INTERFACE, MODULE: TYPE: PLC INTERFACE; MANUF P/N: 6ES5314-3UH12; S5 MODULE	100

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0589110	MODULE COMM:6ES5512-5BC22;S5 PLC , MODULE, COMMUNICATION: TYPE: S5 PLC; MANUF P/N: 6ES5512-5BC22	100
0589111	MODULE PWR SUP:6ES5455-3NC11;PLC , MODULE, POWER SUPPLY: TYPE: PLC; INPUT: 24 V; OUTPUT: 24 V; MANUF P/N: 6ES5455-3NC11	100
0589112	MODULE PWR SUP:6ES5951-7ND12;PLC , MODULE, POWER SUPPLY: TYPE: PLC; INPUT: 24 V; OUTPUT: 24 V; MANUF P/N: 6ES5951-7ND12	100
0589113	MODULE:38.51.0.024;INTERFACE RELAY , MODULE: TYPE: INTERFACE RELAY; MANUF P/N: 38.51.0.024; FINDER MODULAR	100
0589114	MODULE:6ES5340-3KB42;ANALOG TC I/P , MODULE: TYPE: ANALOG TC I/P; MANUF P/N: 6ES5340-3KB42	100
0589115	MODULE:6ES5947-7LA12;CPU , MODULE: TYPE: CPU; MANUF P/N: 6ES5947-7LA12	100
0589116	MODULE:6ES7321-1BPOO-OAAO;O/P 24 V , MODULE: TYPE: SIMATIC DIGITAL INPUT; OUTPUT: 24 V; MANUF P/N: 6ES7321- 1BPOO-OAAO; OPTICALLY ISOLATED IN GROUPS OF 16.64 DI; SM221	100
0589117	MODULE:6ES7392-1AN00-OAA0;TERMINAL, MODULE: TYPE: TERMINAL; MANUF P/N: 6ES7392-1AN00-OAA0; WITH SCREW TYPE FOR 64 CHANNEL	100
0589118	MODULE:6ES7392-4BC50-OAA0 , MODULE: TYPE: PRE WIRED CONNECTOR; MANUF P/N: 6ES7392-4BC50-OAA0	100
0589119	MODULE:6ES7153-2AR04-0XA0;ET200M , MODULE: TYPE: ET200M; SUPPL P/N: 6ES7153-2AR04-0XA0	100
0589120	MODULE COMM:6ES5512-5BC21;S5 PLC , MODULE, COMMUNICATION: TYPE: S5 PLC; MANUF P/N: 6ES5512-5BC21	100
0589121	MODULE:6ES7322-1BP00-OAAO;OPTICALLY , MODULE: TYPE: SIMATIC DIGITAL OUTPUT	100

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	SM322; MANUF P/N: 6ES7322-1BP00-OAAO; OPTICALLY ISOLATED IN GROUPS OF 16.16 DO; 24VDC	
0589122	MODULE:6ES5470-4UC11;ANALOG INPUT MODULE , MODULE: TYPE: ANALOG INPUT MODULE; MANUF P/N: 6ES5470-4UC11; S5 PLC	100
0589577	MODULE:6ES5324-3UA11;CPU , MODULE: TYPE: CPU; MANUF P/N: 6ES5324-3UA11	100
0589578	MODULE:6ES5436-7LA11;DIGITAL INPUT , MODULE: TYPE: DIGITAL INPUT; MANUF P/N: 6ES5436-7LA11	100
0589579	MODULE:CPU 412-5H;SIMATIC S7-400 , MODULE: TYPE: CPU 412-5H; SPECIFICATION: SIMATIC S7-400; SUPPL P/N: S7400-CPU-412-5H	100
0589580	MODULE COMM:6ES5530-7LA11;PLC , MODULE, COMMUNICATION: TYPE: PLC; MANUF P/N: 6ES5530-7LA11	100
0589581	MODULE:6ES7315-2EH130-0AB0;CPU , MODULE: TYPE: CPU; MANUF P/N: 6ES7315- 2EH130-0AB0	100
0589582	MODULE:6ES5942-7UA12;CPU , MODULE: TYPE: CPU; MANUF P/N: 6ES5942-7UA12	100
0589583	MODULE:6ES5452-8MR11;DIGITAL OUTPUT , MODULE: TYPE: DIGITAL OUTPUT; MANUF P/N: 6ES5452-8MR11	100
0589584	MODULE:6ES5458-4UA11;RELAY OUTPUT , MODULE: TYPE: RELAY OUTPUT; MANUF P/N: 6ES5458-4UA11	100
0589585	MODULE:X100A-USB/P-UK , MODULE: TYPE: ADDER LINK X100PLUS AUDIO EXTENDER; MANUF P/N: X100A-USB/P-UK	100
0589586	MODULE:6ES5941-7UA12;CPU , MODULE: TYPE: CPU; MANUF P/N: 6ES5941-7UA12	100
0589587	MODULE:6ES5458-7LB11;RELAY OUTPUT , MODULE: TYPE: RELAY OUTPUT; MANUF P/N: 6ES5458-7LB11	100

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0589588	MODULE:6ES5456-7LA11;RELAY OUTPUT , MODULE: TYPE: RELAY OUTPUT; MANUF P/N: 6ES5456-7LA11	100
0589589	MODULE:6ES7392-1AM00-0AA0;SIMATIC , MODULE: TYPE: FRONT CONNECTOR; MANUF P/N: 6ES7392-1AM00-0AA0; SIMATIC S7-300; 392 WITH SCREW CONTRACTS, 40 PIN	100
0589590	MODULE:6ES7390-1AF30-0AA0;SIMATIC;S7- 300 , MODULE: TYPE: SIMATIC; SPECIFICATION: S7-300; MANUF P/N: 6ES7390-1AF30-0AA0	100
0610272	MODULE:6ES73364GE00-0AB0;ANALOG INPUT , MODULE: TYPE: ANALOG INPUT; INPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; SPECIFICATION: SM336 FAIL SAFE; SUPPL P/N: 6ES73364GE00-0AB0	100
0611502	MODULE:HPSPARAHM/HT10-400;UPS 20 KVA , MODULE: TYPE: UPS PARALLEL CARD; APPLICATION: UPS 20 KVA; SUPPL P/N: HPSPARAHM/HT10-400	100
0611655	MODULE:ANALOG O/P;O/P 4-20 MA;230 VAC , MODULE: TYPE: ANALOG O/P; OUTPUT: 4- 20 MA; POWER SOURCE: 230 VAC; APPLICATION: NOX/SOX ANALYZER GM32; DIMENSIONS: SQ 50 MM; SPECIFICATION: 2034657; 2 CHANNELS, 500 OHM, 0/4...22 MA, GALVANIZED ISOLATED PER MODULE	100
0611656	MODULE:DIGITAL OUTPUT 4 CHANNEL;230 VAC , MODULE: TYPE: DIGITAL OUTPUT 4 CHANNEL; OUTPUT: 48 VAC/DC; 0.5 A; POWER SOURCE: 230 VAC; APPLICATION: ANALYZER GM32; SPECIFICATION: 2034661	100
0612508	MODULE:70A102;16 CH DIGITAL ANALOG INPUT , MODULE: TYPE: 16 CH DIGITAL ANALOG INPUT; INPUT: 0-20 MA; POWER SOURCE: 24 VAC; APPLICATION: PROCONTROL 13DCS; SUPPL P/N: 70A102; FIRMWARE 2.1; CARD REV BB; BLUELINE	100
0612784	MODULE:SKMD-105F08;FAST DIODE , MODULE: TYPE: FAST DIODE; INPUT: 800 V	100

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	105 A; APPLICATION: DC CHOPPER; DIMENSIONS: WD 30 X LG 92 X HT 20 MM; MANUF P/N: SKMD-105F08	
0612785	MODULE:SKND-105F08;FAST DIODE , MODULE: TYPE: FAST DIODE; INPUT: 800 V 105 A; APPLICATION: DC CHOPPER; DIMENSIONS: WD 30 X LG 92 X HT 20 MM; MANUF P/N: SKND-105F08	100
0612786	MODULE:EMG90-DIO-16E/LP;LAMP TEST , MODULE: TYPE: LAMP TEST; POWER SOURCE: 250 VDC; DIMENSIONS: WD 90 X LG 75 X HT 55 MM; MANUF P/N: EMG90-DIO- 16E/LP	100
0612787	MODULE:EMG45-DIO-8E;DIODE;250 VDC , MODULE: TYPE: DIODE; POWER SOURCE: 250 VDC; DIMENSIONS: WD 75 X LG 55 X HT 45 MM; MANUF P/N: EMG45-DIO-8E	100
0612789	MODULE:PLC-OSC-24DC/24DC/2;OPTO- COUPLER , MODULE: TYPE: OPTO- COUPLER; INPUT: 24 VDC; OUTPUT: 3-33 VDC; POWER SOURCE: 24 VDC; APPLICATION: PLC INTERFACE; DIMENSIONS: WD 80 X LG 94 X THK 6.2 MM; MANUF P/N: PLC-OSC-24DC/24DC/2; MOUNTING DIN RAIL NS 35/7.5	100
0613541	MODULE:2043952;CONTROL;240 VAC , MODULE: TYPE: CONTROL; POWER SOURCE: 240 VAC; APPLICATION: GM83 NOX AND SOX ANALYZER; SUPPL P/N: 2043952	100
0622719	MODULE:3BDH000733R1;BINARY OUTPUT, MODULE: TYPE: BINARY OUTPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; SUPPL P/N: 3BDH000733R1	100
0622719	MODULE:3BDH000733R1;BINARY OUTPUT , MODULE: TYPE: BINARY OUTPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; SUPPL P/N: 3BDH000733R1	100
0622720	MODULE:3BD000606R1;CPU;I/P 24 VDC , MODULE: TYPE: CPU; INPUT: 24 VDC;	100

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	OUTPUT: 4-20 MA; SPECIFICATION: AC 870; SUPPL P/N: 3BD000606R1; APPLICATION: MELODY800XA	
0622720	MODULE:3BD000606R1;CPU;I/P 24 VDC , MODULE: TYPE: CPU; INPUT: 24 VDC; OUTPUT: 4-20 MA; SPECIFICATION: AC 870; SUPPL P/N: 3BD000606R1; APPLICATION: MELODY800XA	100
0622721	MODULE:3BDH000720R1;ANALOG INPUT , MODULE: TYPE: ANALOG INPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; SUPPL P/N: 3BDH000720R1	100
0629919	MODULE:3UF7113-1AA00-0;MOTOR , MODULE: TYPE: SIMOCODE MANAGEMENT; APPLICATION: MOTOR; DIMENSIONS: WD 120 X HT 90 X DP 145 MM; SUPPL P/N: 3UF7113-1AA00-0	100
0630011	MODULE:3UF7510-1AA00-0;CURRENT;24 V , MODULE: TYPE: CURRENT; POWER SOURCE: 24 V; APPLICATION: SIMOCODE EARTH FAULT; DIMENSIONS: WD 22.5 X HT 92 X DP 124 MM; SPECIFICATION: IEC 60721; SUPPL P/N: 3UF7510-1AA00-0	100
0632239	MODULE:6GK443-1EX30- 0XE0;COMMUNICATION, MODULE: TYPE: COMMUNICATION; MANUF P/N: 6GK443- 1EX30-0XE0; CP443-1; V2.3.S7 CP FOR INDUSTRIAL ETHERNET ISO AND TCP/IP WITH SEND; RECEIVE AND FETCH; WRITE INTERFACE; LONG DATA; UDP; TCP ISO; S7 COMMUNICATION; ROUTING; MODULE REPLACEMENT WITHOUT PG 10/100 MBPS; INITIALIZATION OVER LAN; IP MULTICAST; NTP; ACCESS PROTECTION WITH IP-ACL; FIRMWARE V2.3	100
0639116	MODULE PWR SUP:RN221N- B1;TRANSMITTER , MODULE, POWER SUPPLY: TYPE: TRANSMITTER; INPUT: 20-50 VAC/DC; OUTPUT: 4-20 MA; APPLICATION: FMI51-K1EB2JA3Y1A LIQUICAP M FMI51; SPECIFICATION: ATEX II-1-GD-EX-IA-IIC; SUPPL P/N: RN221N-B1; 1:1 TRANSMISSION;	100

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	HOUSING 22.5MM; MOUNT: RAIL 35MM; PROTECTION: IP20	
0639117	MODULE PWR SUP:NIVOTESTER FTC325 , MODULE, POWER SUPPLY: TYPE: NIVOTESTER FTC325; INPUT: 20-30/20-60 VAC; OUTPUT: 4-20 MA; APPLICATION: CAPACITIVE ROD PROBE FTI51- KAF1GGJ73Y1A; SPECIFICATION: ATEX II-1- GD-EX-IA-IIC-WHG; SUPPL P/N: FTC325- C1B11; SWITCH OUTPUT: 1X SPST LEVEL AND 1X SPST ALARM NC; HOUSING: 2-WIRE PFM 45MM; MOUNT: DIN RAIL; 1-CHANNEL SETTING VIA PUSH BUTTON; ADJUSTABLE OPERATING DELAY; EMC ACCORDING TO NAMUR	100
0660913	MODULE:7XT3400-BA00/DD;BAND-PASS FILTER , MODULE: TYPE: BAND-PASS FILTER; INPUT: 55 VAC; OUTPUT: 55VAC 30SEC; APPLICATION: STATOR EARTH FAULT PROTECTION SCHEME IN THE GENERATOR PROTETION SCHEME IN CONJUNCTION WITH THE 7XT33 20HZ SIGNAL GENERATOR WHEN MAKING USE OF THE 7UM62 PROTECTION RELAY; SUPPL P/N: 7XT3400-BA00/DD	100
0660914	MODULE:7XT3300-0BA00/DD;SIGNAL GENERATOR , MODULE: TYPE: SIGNAL GENERATOR; INPUT: 24-250 VDC; OUTPUT: 25 V; POWER SOURCE: 220 V; APPLICATION: STATOR EARTH FAULT PROTECTION SCHEME IN THE GENERATOR PROTETION SCHEME IN CONJUNCTION WITH THE 7XT33 20HZ SIGNAL GENERATOR WHEN MAKING USE OF THE 7UM62 PROTECTION RELAY; SUPPL P/N: 7XT3300- 0BA00/DD	100
0661796	MODULE:R902-423-144 , MODULE: TYPE: CENTRAL PROCESSING NIT CONTROL; SPECIFICATION: A4VSG125/180EDP/30X-V; REFERENCE NO: 5776216-066; SUPPL P/N: R902-423-144	100
0662077	MODULE:T224380;TEMPERATURE-TR400 , MODULE: TYPE: TEMPERATURE-TR400;	100

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	INPUT: 24-240 VDC; OUTPUT: 1250 VA; APPLICATION: TEMPERATURE MONITOR; OEM P/N: T224380; PT100 TEMPERATURE RELAYS TYPE TR400 DIGITAL; 4 SENSORS; 4 LIMITS	
0662078	MODULE:T224360;TEMPERATURE-TR600 , MODULE: TYPE: TEMPERATURE-TR600; INPUT: 24-240 VDC; OUTPUT: 1250 VA; APPLICATION: TEMPERATURE MONITOR; OEM P/N: T224360; PT100 TEMPERATURE RELAYS TYPE TR600 DIGITAL; 6 SENSORS; 6 LIMITS; 2 ANALOG OUTPUT	100
0662079	MODULE:1SVR730885R4300;3PH MONITORING , MODULE: TYPE: 3PH MONITORING; INPUT: 180-280 VAC; APPLICATION: CM-MPS.23S MULTIFUNCTION 3 PHASE RMS MONITORING RELAY; OEM P/N: 1SVR730885R4300	100
0664773	MODULE:6SL3130-7TE21-6AA4;ACTIVE LINE , MODULE: TYPE: ACTIVE LINE; APPLICATION: SAMPLING PLANT; SPECIFICATION: SINAMICS S120; OEM P/N: 6SL3130-7TE21-6AA4	100
0664774	MODULE:3UF710-1AA00-0;SAMPLING PLANT, MODULE: TYPE: SIMOCODE GROUND-FAULT; APPLICATION: SAMPLING PLANT; OEM P/N: 3UF710-1AA00-0	100
0664775	MODULE:6SL3100-0BE21-6AB0 , MODULE: TYPE: ACTIVE INTERFACE; APPLICATION: SAMPLING PLANT; SPECIFICATION: SINAMICS S120; OEM P/N: 6SL3100-0BE21- 6AB0	100
0664776	MODULE:3RK3111-1AA10;SIRIUS 3RK3;24 VDC , MODULE: TYPE: SIRIUS 3RK3; POWER SOURCE: 24 VDC; APPLICATION: SAMPLING PLANT; MODULAR SAFETY; DIMENSIONS: WD 45 MM; OEM P/N: 3RK3111-1AA10; 3RK3 4/8 F-DI; 1F-RO; IF-DO; PARAMETERIZABLE VIA SW MISS ES; TERMINAL: SCREW UP TO SIL3	100

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0664777	MODULE:3RK3211-1AA10;SIRIUS 3RK32;24 VDC, MODULE: TYPE: SIRIUS 3RK32; POWER SOURCE: 24 VDC; APPLICATION: SAMPLING PLANT; MODULAR SAFETY; DIMENSIONS: WD 22.5 MM; OEM P/N: 3RK3211-1AA10	100
0664779	MODULE:3RK3251-1AA10;SIRIUS 3RK32 , MODULE: TYPE: SIRIUS 3RK32; POWER SOURCE: 24VDC 2A; APPLICATION: SAMPLING PLANT; MODULAR SAFETY; DIMENSIONS: WD 45 MM; OEM P/N: 3RK3251-1AA10	100
0664780	MODULE:3UF7010-1AB00-0;SIMODOCODE PRO-V , MODULE: TYPE: SIMODOCODE PRO-V; POWER SOURCE: 24 VDC; APPLICATION: SAMPLING PLANT; MODULAR SAFETY; OEM P/N: 3UF7010-1AB00-0	100
0664909	MODULE:6SL3055-0AA00-5BA3;SENSOR , MODULE: TYPE: SENSOR; APPLICATION: SAMPLING PLANT SMC20 MODULES; SPECIFICATION: SINAMATICS S120; OEM P/N: 6SL3055-0AA00-5BA3	100
0664910	MODULE:6SL3120-1TE23-0AA4;MOTOR , MODULE: TYPE: MOTOR; APPLICATION: SAMPLING PLANT FOR 15KW MOTOR; OEM P/N: 6SL3120-1TE23-0AA4	100
0664911	MODULE:CURRENT MEASURING;I/P 0.3-3 A , MODULE: TYPE: CURRENT MEASURING; INPUT: 0.3-3 A; APPLICATION: SAMPLING PLANT; SUPPL P/N: 3UF7100-1AA00-0	100
0664912	MODULE:6SL3054-0EJ00-1BA0 , MODULE: TYPE: COMPACT FLASH CARD; APPLICATION: SAMPLING PLANT; OEM P/N: 6SL3054-0EJ00-1BA0	100
0251654	MODULE:6ES7326-2BF10-OABO;O/P 0.5-2 A , MODULE: TYPE: DIGITAL OUTPUT; INPUT: 70-100 MA; OUTPUT: 0.5-2 A; POWER SOURCE: 24 VDC; APPLICATION: AUTOMATION/CONTROL SYSTEM; DIMENSIONS: WD 80 X HT 125 X DP 120 MM;	100

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	REFERENCE NO: SM 326; SUPPL P/N: 6ES7326-2BF01-0AB0; 6ES7326-2BF10-OABO; FAILSAFE FOR SIMATIC S7F SYSTEMS WITH DIAGNOST INTERRUPT, 1 X 40 PIN, PLC	
0251654	MODULE:6ES7326-2BF10-OABO;O/P 0.5-2 A , MODULE: TYPE: DIGITAL OUTPUT; INPUT: 70-100 MA; OUTPUT: 0.5-2 A; POWER SOURCE: 24 VDC; APPLICATION: AUTOMATION/CONTROL SYSTEM; DIMENSIONS: WD 80 X HT 125 X DP 120 MM; REFERENCE NO: SM 326; SUPPL P/N: 6ES7326-2BF01-0AB0; 6ES7326-2BF10- OABO; FAILSAFE FOR SIMATIC S7F SYSTEMS WITH DIAGNOST INTERRUPT, 1 X 40 PIN, PLC	100
0252636	MODULE COMM:6GK15033CB00 , MODULE, COMMUNICATION: TYPE: OPTICAL LINK PROFIBUS; APPLICATION: STACKER/SPREADER DHP; REFERENCE NO: OLM/G12 V4.0; SUPPL P/N: 6GK15033CB00; W 1 RS485 & 2 GLASS-FOC- INTERFACES (4 BFOC-SOCKE TS) FOR STANDARD DISTANCES UP TO 2850 M, WITH SIGNAL, CONTACT & MEASURING OUTPUT	100
0252828	MODULE:6ES7972-0BB60-0XA0;PROFIBUS , MODULE: TYPE: PROFIBUS; APPLICATION: SIMATIC S7 NET, 12 MS, 90 DEG ANGLE CONNECTORS; SUPPL P/N: 6ES7972-0BB60- 0XA0	100
0253360	MODULE:6RICSKRH006A;CONFIGURATION CARD , MODULE: TYPE: CONFIGURATION CARD; APPLICATION: UPS; SUPPL P/N: 6RICSKRH006A	100
0253374	MODULE:6RICAP13767A;IGBT;I/P 600 V 300 A , MODULE: TYPE: IGBT; INPUT: 600 V 300 A; APPLICATION: UPS; REFERENCE NO: NF 13767; SUPPL P/N: 6RICAP13767A	100
0253442	MODULE:3UF7400-1AA00-0;ANALOG OUTPUT , MODULE: TYPE: ANALOG OUTPUT; SUPPL P/N: 3UF7400-1AA00-0	100

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0255906	MODULE:6ES7153-2BA02-0XB0;SIMATIC DP, MODULE: TYPE: ET 200M INTERFACE IM 153-2; SUPPL P/N: 6ES7153-2BA02-0XB0; SIMATIC DP, HIGH FLATURE FOR MAX 12 S7-300, WITH REDUNDANCY; TIME STAMP ING; FIT FOR ISOCHROME MODE NEW FEATURES: 12 MODULES/ STATION SLAVE INITIATIVE; FOR SWITCHES AND DRIVES; EXTENDED DATA FOR HART SEC ONDARY VARIABLES OPERATION WITH 64PT MODULES EXTENDED TIMESTAMPS WITH 32 SIGNALS/ SLOT	100
0255907	MODULE:6ES7331-7KF02-0AB0;ANALOG INPUT, MODULE: TYPE: ANALOG INPUT; SUPPL P/N: 6ES7331-7KF02-0AB0; SIMATIC S7-300, SM331; OPTICALLY ISOLATED; 8AI, RESOLUTION 9/12/14 BITS; U/ I/ THERMOCOUPLE / RESISTANCE INTERRUPTED DIAGNOSTICS, 1 X 20 PIN, REMOVE/ INSERT W BACKPLANE BUS	100
0256392	MODULE:6ES7322-1HH01-0AA0;OPTICALLY , MODULE: TYPE: DIGITAL O/P, SM 322; APPLICATION: DHP SIMATIC S7-300; SUPPL P/N: 6ES7322-1HH01-0AA0; OPTICALLY ISOLATED 16DO; RELAY CONTACTS, 1 X 20 PIN	100
0256393	MODULE:6ES7972-0AA01-0XA0;REPEATER RS485 , MODULE: TYPE: REPEATER RS485; APPLICATION: DHP SIMATIC DP; SUPPL P/N: 6ES7972-0AA01-0XA0; FOR THE CONNECTION OF PROFIBUS/MPI BUS SYSTEMS WITH MAXIMUM 31 NODES; 12 MBIT/S, DEGREE OF PROTECTION IP20	100
0501089	MODULE:3RW4447-6BC45;SOFT STATER , MODULE: TYPE: SOFT STATER; POWER SOURCE: 2400 VDC; 250KW; MANUF P/N: 3RW4447-6BC45; CLASS 10	100
0501124	MODULE:3UL2203-1B;SUMMATION CT , MODULE: TYPE: SUMMATION CT; MANUF P/N: 3UL2203-1B	100
0501125	MODULE:3UF7500-1AA00-0 , MODULE: TYPE: SIMOCODE EARTH FAULT; MANUF P/N: 3UF7500-1AA00-0	100

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0501127	MODULE:3UF7114-1BA00-0;CURRENT MEASURING, MODULE: TYPE: CURRENT MEASURING; INPUT: 63-630 A; MANUF P/N: 3UF7114-1BA00-0; SIMOCODE CT/VT; V BUS BAR	100
0501522	MODULE:6ES7221-7KF02-OABO;PLC , MODULE: APPLICATION: PLC; MANUF P/N: 6ES7221-7KF02-OABO	100
0501523	MODULE:6ES7322-1BH02-0AA0;DIGITAL INPUT , MODULE: TYPE: DIGITAL INPUT; APPLICATION: PLC; MANUF P/N: 6ES7322-1BH02-0AA0	100
0501524	MODULE:6ES7153-2BB00-0AA0;ET 200;PLC , MODULE: TYPE: ET 200; APPLICATION: PLC; MANUF P/N: 6ES7153-2BB00-0AA0	100
0502239	MODULE:6ES7315-2EH13-0AB0;SIMATIC CP315 , MODULE: TYPE: SIMATIC CP315; MANUF P/N: 6ES7315-2EH13-0AB0; FOR USE ON SIEMENS CONTROL CABINET	100
0503025	MODULE:PC D232;INPUT/OUTPUT;FOR ABB , MODULE: TYPE: INPUT/OUTPUT; MANUF P/N: 3BHE022293R0101; PC D232; FOR ABB UNITROL 6800 EXCITATION SYSTEM	100
0552769	MODULE:3BDH000512R1;INTERFACE;I/P 24 VDC , MODULE: TYPE: INTERFACE; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; DIMENSIONS: WD 400 X LG 200 MM; SPECIFICATION: CCR70; MANUF P/N: 3BDH000512R1	100
0552770	MODULE:3BDH000554R1;O/P 4-20 MA;24 VDC , MODULE: OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; SPECIFICATION: SD891; MANUF P/N: 3BDH000554R1; ID 300MM X LG 100MM	100
0552771	MODULE:DA501;DIGITAL/ANALOG I/O;S 500 , MODULE: TYPE: DIGITAL/ANALOG I/O; INPUT: 24 VDC; OUTPUT: 4-20 MA; DIMENSIONS: WD 150 X LG 250 MM; SPECIFICATION: S 500; MANUF P/N: DA501	100

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0552772	MODULE:TB521;CPU;O/P 4-20 MA;PLC;AC 500 , MODULE: TYPE: CPU; OUTPUT: 4-20 MA; APPLICATION: PLC; DIMENSIONS: WD 150 X LG 250 MM; SPECIFICATION: AC 500; MANUF P/N: TB521	100
0552773	MODULE:3BDH000555R1;O/P 4-20 MA;24 VDC , MODULE: OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; SPECIFICATION: SD894; MANUF P/N: 3BDH000555R1	100
0552774	MODULE:3BDH000720R1;ANALOG INPUT , MODULE: TYPE: ANALOG INPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; MANUF P/N: 3BDH000720R1	100
0552774	MODULE:3BDH000720R1;ANALOG INPUT , MODULE: TYPE: ANALOG INPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; MANUF P/N: 3BDH000720R1	100
0552776	MODULE:3BDH000723R1;ANALOG OUTPUT , MODULE: TYPE: ANALOG OUTPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; SPECIFICATION: CA010; MANUF P/N: 3BDH000723R1	100
0552777	MODULE:3BD000606R1;CPU;I/P 24 VDC , MODULE: TYPE: CPU; INPUT: 24 VDC; OUTPUT: 4-20 MA; SPECIFICATION: AC 870; MANUF P/N: 3BD000606R1; APPLICATION: MELODY800XA	100
0552778	MODULE:CM272;COMMUNICATION;I/P 24 VDC , MODULE: TYPE: COMMUNICATION; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: PLC; DIMENSIONS: WD 150 X LG 200 MM; SPECIFICATION: PROFIBUS DP; MANUF P/N: CM272	100
0552779	MODULE:3BDH000616R1;I/P 24 VDC;CI 150 , MODULE: INPUT: 24 VDC; OUTPUT: 4-20 MA; DIMENSIONS: WD 300 X LG 100 MM; SPECIFICATION: CI 150; MANUF P/N: 3BDH000616R1	100

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0552780	MODULE:AI 561;ANALOG INPUT CARD;24 VDC , MODULE: TYPE: ANALOG INPUT CARD; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: PLC; DIMENSIONS: WD 150 X LG 250 MM; MANUF P/N: AI 561	100
0552781	MODULE:3BDH000730R1;BINARY INPUT , MODULE: TYPE: BINARY INPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; DIMENSIONS: WD 300 X LG 100 MM; SPECIFICATION: CBI 20; MANUF P/N: 3BDH000730R1	100
0565150	MODULE:SIMATIC NET S612;O/P 0.25 A;24 V , MODULE: TYPE: SIMATIC NET S612; OUTPUT: 0.25 A; POWER SOURCE: 24 V; APPLICATION: NETWORK T3000; MANUF P/N: 6GK5612-0BA00-2AA3; USED FOR PROTECTION OF DEVICES AND NETWORKS IN AUTOMATION; AND PROTECTION OF INDUSTRIAL COMMUNICATION VIA VPN (MAX. 32 UNITS) AND FIREWALL	100
0566343	MODULE:MCS2;ESP CONTROLLER;O/P 4-20 MA , MODULE: TYPE: ESP CONTROLLER; INPUT: 24VDC 110VAC; OUTPUT: 4-20 MA; POWER SOURCE: 20-0-20VAC; 47-63HZ; APPLICATION: ELECTROSTATIC PRECIPITATOR; DIMENSIONS: WD 400 X HT 250 X THK 100 MM; REFERENCE NO: MCS2	100
0568023	MODULE:MODULE BUS;9-30 VDC;CONVERTER , MODULE: TYPE: MODULE BUS; POWER SOURCE: 9-30 VDC; APPLICATION: CONVERTER; DIMENSIONS: WD 67 X LG 100 X THK 22 MM; SPECIFICATION: MOXA, MGATE MB3170	100
0568024	MODULE:ETHERNET EXTENDER;12-48 VDC , MODULE: TYPE: ETHERNET EXTENDER; POWER SOURCE: 12-48 VDC; MANUF P/N: 3621-0110	100
0575240	MODULE COMM:3UF7400-1AA0-0;SWITCHGEAR , MODULE, COMMUNICATION: TYPE: ANALOG EXTENTION; INPUT: 2 ANALOG 4-20MA;	100

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	APPLICATION: SWITCHGEAR; MANUF P/N: 3UF7400-1AA0-0; IP20	
0575252	MODULE COMM:3UF7300-1AU00-0 , MODULE, COMMUNICATION: TYPE: DIGITAL EXTENTION; INPUT: 4 DIGITAL; OUTPUT: 2 RELAY; APPLICATION: SWITCHGEAR; MANUF P/N: 3UF7300-1AU00-0	100
0575274	MODULE:3UF7010-1AU00-0;MOTOR MANAGEMENT, MODULE: TYPE: MOTOR MANAGMENT; INPUT: 24 V; OUTPUT: 100- 240 VAC; APPLICATION: MOTOR; DIMENSIONS: 45 X 111 X 124 MM; SPECIFICATION: PRO-V SIMOCODE; MANUF P/N: 3UF7010-1AU00-0	100
0576196	MODULE:176449-02;I/P 24 VDC;O/P 24 VDC , MODULE: TYPE: PROXIMITOR SEISMIC MONITOR; INPUT: 24 VDC; OUTPUT: 24 VDC; POWER SOURCE: 24 VDC; APPLICATION: VIBRATION SYSTEM; DIMENSIONS: WD 24.4 X HT 241.3 X DP 241.8 MM; MANUF P/N: 176449-02; MODEL NO: 3500/42-01-00; 3500/42M PROXIMITOR	100
0579868	MODULE:3BSE008514R0001;DIGITAL OUTPUT , MODULE: TYPE: DIGITAL OUTPUT; MANUF P/N: 3BSE008514R0001; REFERENCE NO: D0820	100
0580043	MODULE:3BSE008508R0001;DI810;24VDC 6MA , MODULE: TYPE: DIGITAL INPUT; POWER SOURCE: 24VDC 6MA; MANUF P/N: 3BSE008508R0001; REFERENCE NO: DI810; 16 CHANNEL; ABB SOLE SOURCE IN PLACE EFFECTIVE 01/04/2016 TO 31/03/2022; KUSILE AGREEMENT DOCUMENT ATTACHED; DOC NO: 240-118824127	100
0580046	MODULE:3BSE008552R001;DI811;48 VDC , MODULE: TYPE: DIGITAL INPUT; POWER SOURCE: 48 VDC; MANUF P/N: 3BSE008552R001; REFERENCE NO: DI811; 16 CHANNEL	100
0580047	MODULE:3BSE040662R0001;AI830;24V 80MA , MODULE: TYPE: RESISTANCE	100

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	TEMPERATURE DETECTOR; POWER SOURCE: 24V 80MA; MANUF P/N: 3BSE040662R0001; 8 CHANNEL; ANALOG INPUT; AI830 RTD INPUT MODULE	
0580168	MODULE:3BSE008546R0001;AO820;24 V , MODULE: TYPE: ANALOG OUTPUT; OUTPUT: 4-20 MA; POWER SOURCE: 24 V; MANUF P/N: 3BSE008546R0001; REFERENCE NO: AO820; 4 CHANNEL	100
0580171	MODULE:3BHE022294R0103;INTERFACE;24 VDC , MODULE: TYPE: INTERFACE; POWER SOURCE: 24 VDC; MANUF P/N: 3BHE022294R0103; REFERENCE NO: GFD233	100
0580172	MODULE:3BHB004744R0010;60 V , MODULE: TYPE: CONVERTER CONTROL SYSTEM; POWER SOURCE: 60 V; MANUF P/N: 3BHB004744R0010; REFERENCE NO: MV GDR; XV C517AE	100
0582397	MODULE:123-1017;I/P 24 VDC;400UA , MODULE: TYPE: LOCKOUT POSITION INDICATION; INPUT: 24 VDC; POWER SOURCE: 400UA; APPLICATION: CONVEYOR PULL KEY SYSTEM; DIMENSIONS: WD 150 X LG 28 MM; MANUF P/N: 123-1017	100
0582398	MODULE:123-1020;TERMINATION UNIT , MODULE: TYPE: TERMINATION UNIT; INPUT: 24 VDC; OUTPUT: 24VDC 28MA; POWER SOURCE: 86-1.2 KHZ; APPLICATION: CONVEYOR PULL KEY SYSTEM; MANUF P/N: 123-1020	100
0582996	MODULE:6R-AATB2742CO2C;SLAVE CONVERTER , MODULE: TYPE: RECTIFIER CONTROL CARD; APPLICATION: 20KVA UPS MACHINES; MANUF P/N: 6R-AATB2742CO2C; SLAVE CONVERTER CONTROL CARD 12P	100
0582997	MODULE:6R-AAT B2083FO2B;RIC SK DRIVER , MODULE: TYPE: INVERTER DRIVER CARD; APPLICATION: 20KVA AROS UPS MACHINES; MANUF P/N: 6R-AAT B2083FO2B; RIC SK DRIVER IGBT	100

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0582998	MODULE:6R-AATB2742C03A;MASTER; RIC SK , MODULE: TYPE: RECTIFIER CONTROL CARD; APPLICATION: 20KVA UPS MACHINES; MANUF P/N: 6R-AATB2742C03A; MASTER; RIC SK CONTROL RADDR MUST; 220VDC	100
0582999	MODULE:02600134;SCR;I/P 1200V; 55A , MODULE: TYPE: SCR; INPUT: 1200V; 55A; MANUF P/N: 02600134; SEMIPACK	100
0583000	MODULE:6RICAERH008I03A;INVERTER CONTROL , MODULE: TYPE: INVERTER CONTROL; APPLICATION: 20 KVA UPS MACHINES; MANUF P/N: 6RICAERH008I03A	100
0583107	MODULE:SYSTEM CARD;I/P 20KVA 220VDC , MODULE: TYPE: SYSTEM CARD; INPUT: 20KVA 220VDC; APPLICATION: 20KVA UPS MACHINES; MANUF P/N: 6R_APTB2196A04A; RIC HPS SISTEMA	100
0584570	MODULE:HIEB410237P0006;INTERFACE , MODULE: TYPE: INTERFACE; INPUT: 125VAC/DC; OUTPUT: 125VAC/DC; POWER SOURCE: 1.5 TO 2.5 A; DIMENSIONS: WD 38.8 X HT 77 X DP 58.5 MM; SPECIFICATION: FLKM-D 9 SUB/B; MANUF P/N: HIEB410237P0006; 9 POSITIONS; ANY MOUNTING TYPE	100
0584572	MODULE:HIEB410237P0005;INTERFACE , MODULE: TYPE: INTERFACE; INPUT: 125VAC/DC; OUTPUT: 125VAC/DC; POWER SOURCE: 1.5 TO 2.5 A; DIMENSIONS: WD 33.8 X HT 77 X DP 58.5 MM; SPECIFICATION: FLKM-D 9 SUB/B; MANUF P/N: HIEB410237P0005; 9 POSITIONS; ANY MOUNTING TYPE	100
0585805	MODULE:COMM BOARD;O/P 5V+/-10% 100MA , MODULE: TYPE: COMM BOARD; OUTPUT: 5V+/-10% 100MA; POWER SOURCE: 5V+/-5%, 100MA VDC; APPLICATION: CBP2; MANUF P/N: 6SX7010-OFF05; INTERFACE TO S7-300	100

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0585806	MODULE:EXPANSION BOARD , MODULE: TYPE: EXPANSION BOARD; MANUF P/N: 6SX7010-0KB00	100
0585807	MODULE:MICRO MEMORY CARD;24 V , MODULE: TYPE: MICRO MEMORY CARD; POWER SOURCE: 24 V; APPLICATION: SIMATIC S7-300; MANUF P/N: 6ES7953-8LJ20-0AA0	100
0585808	MODULE:POWER CONVERTER;24 VDC;SIMOVERT , MODULE: TYPE: POWER CONVERTER; POWER SOURCE: 24 VDC; MANUF P/N: 6SE7031-8EF60-7-K11L20; SIMOVERT MASTERDRIVE	100
0585809	MODULE:T400 TECHNOLOGY;24 VDC;REGULATION, MODULE: TYPE: T400 TECHNOLOGY; POWER SOURCE: 24 VDC; MANUF P/N: 6DD1606-0AD0; REGULATION AND CONTROL MODULE	100
0588300	MODULE:CPU;I/P DIGITAL;O/P 16 DIGITAL , MODULE: TYPE: CENTRAL PROCESSING UNIT; INPUT: DIGITAL; OUTPUT: 16 DIGITAL; POWER SOURCE: 24V; APPLICATION: SIMATIC S7-300; DIMENSIONS: DIA 130 X WD 120 X HT 125 MM; MANUF P/N: 6ES7313-6CF03-OABO; CPU 313C-2DP COMPACT CPU WITH MPI; 3 FAST COUNTERS; 1 INTEGRATED DP INTERFACE; 24VDC POWER SUPPLY; 64 KBYTE, MICRO MEMORY CARD REQUIRED	100
0588301	MODULE:VOLTAGE/CURRENT;120-110 V , MODULE: TYPE: VOLTAGE/CURRENT; POWER SOURCE: 120-110 V; MANUF P/N: UGE 100; REFERENCE NO: BV27935BG; FOR DETECTION OF GENERATION VOLTAGE	100
0588302	MODULE:CURRENT DETECTION;5 V;FOR , MODULE: TYPE: CURRENT DETECTION; POWER SOURCE: 5 V; MANUF P/N: 1GE100; REFERENCE NO: BV 28018BG; FOR DETECTION GENERATOR CURRENT; CURRENT 1A; 5A	100
0588490	MODULE COMM:6AV1242-OABOO;PROCESSOR , MODULE,	100

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	COMMUNICATION: TYPE: PROCESSOR; MANUF P/N: 6AV1242-OABOO	
0588491	MODULE COMM:6ES5530- 7LA12;PROCESSOR , MODULE, COMMUNICATION: TYPE: PROCESSOR; MANUF P/N: 6ES5530-7LA12	100
0588492	MODULE COMM:6ES5535- 3BL11;PROCESSOR , MODULE, COMMUNICATION: TYPE: PROCESSOR; MANUF P/N: 6ES5535-3BL11	100

0588493	MODULE:6ES5143-3SA11;PLC INTERFACE , MODULE: TYPE: PLC INTERFACE; MANUF P/N: 6ES5143-3SA11	100
0588494	MODULE:6ES5155-3UA21;CENTRAL CONTROLLER , MODULE: TYPE: CENTRAL CONTROLLER; MANUF P/N: 6ES5155-3UA21	100
0588495	MODULE:6ES5430-4UA12;DIGITAL INPUT , MODULE: TYPE: DIGITAL INPUT; MANUF P/N: 6ES5430-4UA12	100
0588496	MODULE:6ES5451-4UA12;DIGITAL OUTPUT , MODULE: TYPE: DIGITAL OUTPUT; MANUF P/N: 6ES5451-4UA12	100
0588497	MODULE:6ES5451-7LA11;DIGITAL OUTPUT , MODULE: TYPE: DIGITAL OUTPUT; MANUF P/N: 6ES5451-7LA11	100
0588498	MODULE:6ES5460-4UA12;ANALOG INPUT, MODULE: TYPE: ANALOG INPUT; MANUF P/N: 6ES5460-4UA12	100
0588499	MODULE:6ES5460-7LA11;ANALOG INPUT , MODULE: TYPE: ANALOG INPUT; MANUF P/N: 6ES5460-7LA11	100
0588500	MODULE:6ES5511-5AA14;CPU , MODULE: TYPE: CENTRAL PROCESSING UNIT; MANUF P/N: 6ES5511-5AA14	100
0588501	MODULE:6ES7952-1AK00-0AA0;CPU , MODULE: TYPE: CENTRAL PROCESSING UNIT; APPLICATION: SIMATIC S7; RAM	100

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	MEMORY CARD FOR S7-400; SUPPL P/N: 6ES7952-1AK00-0AA0	
0588502	MODULE:6ES5946-3UA22;CPU , MODULE: TYPE: CENTRAL PROCESSING UNIT; MANUF P/N: 6ES5946-3UA22	100
0588502	MODULE:6ES5946-3UA22;CPU , MODULE: TYPE: CENTRAL PROCESSING UNIT; MANUF P/N: 6ES5946-3UA22	100
0588503	MODULE:6ES5947-3UA22;CPU , MODULE: TYPE: CENTRAL PROCESSING UNIT; MANUF P/N: 6ES5947-3UA22	100
0588504	MODULE:6ES5955-3NF11;PLC , MODULE: TYPE: PLC; MANUF P/N: 6ES5955-3NF11	100
0588505	MODULE:7KE4490-2BN;MASTER , MODULE: TYPE: MASTER; MANUF P/N: 7KE4490-2BN	100
0588506	MODULE:7KE490-2BN;MASTER, MODULE: TYPE: MASTER; MANUF P/N: 7KE490-2BN	100
0588507	MODULE:7KE490-2BP;SLAVE , MODULE: TYPE: SLAVE; MANUF P/N: 7KE490-2BP	100
0588815	MODULE:204-2BC10-2AA3;SCALANCE X204-243 , MODULE: TYPE: NETWORK MANAGED IE SWITCH; MANUF P/N: 204-2BC10-2AA3; SCALANCE X204-243	100
0588816	MODULE:6ES5314-3UH12;PLC INTERFACE , MODULE: TYPE: PLC INTERFACE; MANUF P/N: 6ES5314-3UH12; S5 MODULE	100
0589110	MODULE COMM:6ES5512-5BC22;S5 PLC , MODULE, COMMUNICATION: TYPE: S5 PLC; MANUF P/N: 6ES5512-5BC22	100
0589111	MODULE PWR SUP:6ES5455-3NC11;PLC , MODULE, POWER SUPPLY: TYPE: PLC; INPUT: 24 V; OUTPUT: 24 V; MANUF P/N: 6ES5455-3NC11	100
0589112	MODULE PWR SUP:6ES5951-7ND12;PLC , MODULE, POWER SUPPLY: TYPE: PLC; INPUT: 24 V; OUTPUT: 24 V; MANUF P/N: 6ES5951-7ND12	100

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0589113	MODULE:38.51.0.024;INTERFACE RELAY , MODULE: TYPE: INTERFACE RELAY; MANUF P/N: 38.51.0.024; FINDER MODULAR	100
0589114	MODULE:6ES5340-3KB42;ANALOG TC I/P , MODULE: TYPE: ANALOG TC I/P; MANUF P/N: 6ES5340-3KB42	100
0589115	MODULE:6ES5947-7LA12;CPU , MODULE: TYPE: CPU; MANUF P/N: 6ES5947-7LA12	100
0589116	MODULE:6ES7321-1BPOO-OAAO;O/P 24 V , MODULE: TYPE: SIMATIC DIGITAL INPUT; OUTPUT: 24 V; MANUF P/N: 6ES7321- 1BPOO-OAAO; OPTICALLY ISOLATED IN GROUPS OF 16.64 DI; SM221	100
0589117	MODULE:6ES7392-1AN00-OAAO;TERMINAL , MODULE: TYPE: TERMINAL; MANUF P/N: 6ES7392-1AN00-OAAO; WITH SCREW TYPE FOR 64 CHANNEL	100
0589118	MODULE:6ES7392-4BC50-OAAO , MODULE: TYPE: PRE WIRED CONNECTOR; MANUF P/N: 6ES7392-4BC50-OAAO	100
0589119	MODULE:6ES7153-2AR04-0XA0;ET200M , MODULE: TYPE: ET200M; SUPPL P/N: 6ES7153-2AR04-0XA0	100
0589120	MODULE COMM:6ES5512-5BC21;S5 PLC , MODULE, COMMUNICATION: TYPE: S5 PLC; MANUF P/N: 6ES5512-5BC21	100
0589121	MODULE:6ES7322-1BP00-OAAO;OPTICALLY MODULE: TYPE: SIMATIC DIGITAL OUTPUT SM322; MANUF P/N: 6ES7322-1BP00-OAAO; OPTICALLY ISOLATED IN GROUPS OF 16.16 DO; 24VDC	100
0589122	MODULE:6ES5470-4UC11;ANALOG INPUT MODULE, MODULE: TYPE: ANALOG INPUT MODULE; MANUF P/N: 6ES5470-4UC11; S5 PLC	100
0589577	MODULE:6ES5324-3UA11;CPU , MODULE: TYPE: CPU; MANUF P/N: 6ES5324-3UA11	100

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0589578	MODULE:6ES5436-7LA11;DIGITAL INPUT , MODULE: TYPE: DIGITAL INPUT; MANUF P/N: 6ES5436-7LA11	100
0589579	MODULE:CPU 412-5H;SIMATIC S7-400 , MODULE: TYPE: CPU 412-5H; SPECIFICATION: SIMATIC S7-400; SUPPL P/N: S7400-CPU-412-5H	100
0589580	MODULE COMM:6ES5530-7LA11;PLC , MODULE, COMMUNICATION: TYPE: PLC; MANUF P/N: 6ES5530-7LA11	100
0589581	MODULE:6ES7315-2EH130-0AB0;CPU , MODULE: TYPE: CPU; MANUF P/N: 6ES7315- 2EH130-0AB0	100
0589582	MODULE:6ES5942-7UA12;CPU , MODULE: TYPE: CPU; MANUF P/N: 6ES5942-7UA12	100
0589583	MODULE:6ES5452-8MR11;DIGITAL OUTPUT , MODULE: TYPE: DIGITAL OUTPUT; MANUF P/N: 6ES5452-8MR11	100
0589584	MODULE:6ES5458-4UA11;RELAY OUTPUT , MODULE: TYPE: RELAY OUTPUT; MANUF P/N: 6ES5458-4UA11	100
0589585	MODULE:X100A-USB/P-UK , MODULE: TYPE: ADDER LINK X100PLUS AUDIO EXTENDER; MANUF P/N: X100A-USB/P-UK	100
0589586	MODULE:6ES5941-7UA12;CPU , MODULE: TYPE: CPU; MANUF P/N: 6ES5941-7UA12	100
0589587	MODULE:6ES5458-7LB11;RELAY OUTPUT , MODULE: TYPE: RELAY OUTPUT; MANUF P/N: 6ES5458-7LB11	100
0589588	MODULE:6ES5456-7LA11;RELAY OUTPUT , MODULE: TYPE: RELAY OUTPUT; MANUF P/N: 6ES5456-7LA11	100
0589589	MODULE:6ES7392-1AM00-0AA0;SIMATIC , MODULE: TYPE: FRONT CONNECTOR; MANUF P/N: 6ES7392-1AM00-0AA0; SIMATIC S7-300; 392 WITH SCREW CONTRACTS, 40 PIN	100
0589590	MODULE:6ES7390-1AF30-0AA0;SIMATIC;S7- 300, MODULE: TYPE: SIMATIC; SPECIFICATION: S7-300; MANUF P/N: 6ES7390-1AF30-0AA0	100

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0610272	MODULE:6ES73364GE00-0AB0;ANALOG INPUT, MODULE: TYPE: ANALOG INPUT; INPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: TURBINE CONTROL SYSTEM; SPECIFICATION: SM336 FAIL SAFE; SUPPL P/N: 6ES73364GE00-0AB0	100
0611502	MODULE:HPSPARAHM/HT10-400;UPS 20 KVA , MODULE: TYPE: UPS PARALLEL CARD; APPLICATION: UPS 20 KVA; SUPPL P/N: HPSPARAHM/HT10-400	100
0611655	MODULE:ANALOG O/P;O/P 4-20 MA;230 VAC , MODULE: TYPE: ANALOG O/P; OUTPUT: 4-20 MA; POWER SOURCE: 230 VAC; APPLICATION: NOX/SOX ANALYZER GM32; DIMENSIONS: SQ 50 MM; SPECIFICATION: 2034657; 2 CHANNELS, 500 OHM, 0/4...22 MA, GALVANIZED ISOLATED PER MODULE	100
0611656	MODULE:DIGITAL OUTPUT 4 CHANNEL;230 VAC , MODULE: TYPE: DIGITAL OUTPUT 4 CHANNEL; OUTPUT: 48 VAC/DC; 0.5 A; POWER SOURCE: 230 VAC; APPLICATION: ANALYZER GM32; SPECIFICATION: 2034661	100
0612508	MODULE:70A102;16 CH DIGITAL ANALOG INPUT , MODULE: TYPE: 16 CH DIGITAL ANALOG INPUT; INPUT: 0-20 MA; POWER SOURCE: 24 VAC; APPLICATION: PROCONTROL 13DCS; SUPPL P/N: 70A102; FIRMWARE 2.1; CARD REV BB; BLUELINE	100
0612784	MODULE:SKMD-105F08;FAST DIODE , MODULE: TYPE: FAST DIODE; INPUT: 800 V 105 A; APPLICATION: DC CHOPPER; DIMENSIONS: WD 30 X LG 92 X HT 20 MM; MANUF P/N: SKMD-105F08	100
0612785	MODULE:SKND-105F08;FAST DIODE , MODULE: TYPE: FAST DIODE; INPUT: 800 V 105 A; APPLICATION: DC CHOPPER; DIMENSIONS: WD 30 X LG 92 X HT 20 MM; MANUF P/N: SKND-105F08	100
0612786	MODULE:EMG90-DIO-16E/LP;LAMP TEST , MODULE: TYPE: LAMP TEST; POWER	100

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	SOURCE: 250 VDC; DIMENSIONS: WD 90 X LG 75 X HT 55 MM; MANUF P/N: EMG90-DIO-16E/LP	
0612787	MODULE:EMG45-DIO-8E;DIODE;250 VDC , MODULE: TYPE: DIODE; POWER SOURCE: 250 VDC; DIMENSIONS: WD 75 X LG 55 X HT 45 MM; MANUF P/N: EMG45-DIO-8E	100
0612789	MODULE:PLC-OSC-24DC/24DC/2;OPTO- COUPLER	100
0613541	MODULE:2043952;CONTROL;240 VAC , MODULE: TYPE: OPTO-COUPLER; INPUT: 24 VDC; OUTPUT: 3-33 VDC; POWER SOURCE: 24 VDC; APPLICATION: PLC INTERFACE; DIMENSIONS: WD 80 X LG 94 X THK 6.2 MM; MANUF P/N: PLC-OSC-24DC/24DC/2; MOUNTING DIN RAIL NS 35/7.5	100
0622719	MODULE:3BDH000733R1;BINARY OUTPUT , MODULE: TYPE: BINARY OUTPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; SUPPL P/N: 3BDH000733R1	100
0622719	MODULE:3BDH000733R1;BINARY OUTPUT , MODULE: TYPE: BINARY OUTPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; SUPPL P/N: 3BDH000733R1	100
0622720	MODULE:3BD000606R1;CPU;I/P 24 VDC , MODULE: TYPE: CPU; INPUT: 24 VDC; OUTPUT: 4-20 MA; SPECIFICATION: AC 870; SUPPL P/N: 3BD000606R1; APPLICATION: MELODY800XA	100
0622720	MODULE:3BD000606R1;CPU;I/P 24 VDC , MODULE: TYPE: CPU; INPUT: 24 VDC; OUTPUT: 4-20 MA; SPECIFICATION: AC 870; SUPPL P/N: 3BD000606R1; APPLICATION: MELODY800XA	100
0622721	MODULE:3BDH000720R1;ANALOG INPUT , MODULE: TYPE: ANALOG INPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; SUPPL P/N: 3BDH000720R1	100
0622721	MODULE:3BDH000720R1;ANALOG INPUT , MODULE: TYPE: ANALOG INPUT; INPUT: 24 VDC; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; SUPPL P/N: 3BDH000720R1	100

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0629919	MODULE:3UF7113-1AA00-0;MOTOR , MODULE: TYPE: SIMOCODE MANAGEMENT; APPLICATION: MOTOR; DIMENSIONS: WD 120 X HT 90 X DP 145 MM; SUPPL P/N: 3UF7113-1AA00-0	100
0630011	MODULE:3UF7510-1AA00-0;CURRENT;24 V , MODULE: TYPE: CURRENT; POWER SOURCE: 24 V; APPLICATION: SIMOCODE EARTH FAULT; DIMENSIONS: WD 22.5 X HT 92 X DP 124 MM; SPECIFICATION: IEC 60721; SUPPL P/N: 3UF7510-1AA00-0	100
0632239	MODULE:6GK443-1EX30- 0XE0;COMMUNICATION , MODULE: TYPE: COMMUNICATION; MANUF P/N: 6GK443- 1EX30-0XE0; CP443-1; V2.3.S7 CP FOR INDUSTRIAL ETHERNET ISO AND TCP/IP WITH SEND; RECEIVE AND FETCH; WRITE INTERFACE; LONG DATA; UDP; TCP ISO; S7 COMMUNICATION; ROUTING; MODULE REPLACEMENT WITHOUT PG 10/100 MBPS; INITIALIZATION OVER LAN; IP MULTICAST; NTP; ACCESS PROTECTION WITH IP-ACL; FIRMWARE V2.3	100
0639116	MODULE PWR SUP:RN221N- B1;TRANSMITTER , MODULE, POWER SUPPLY: TYPE: TRANSMITTER; INPUT: 20-50 VAC/DC; OUTPUT: 4-20 MA; APPLICATION: FMI51-K1EB2JA3Y1A LIQUICAP M FMI51; SPECIFICATION: ATEX II-1-GD-EX-IA-IIC; SUPPL P/N: RN221N-B1; 1:1 TRANSMISSION; HOUSING 22.5MM; MOUNT: RAIL 35MM; PROTECTION: IP20	100
0639117	MODULE PWR SUP:NIVOTESTER FTC325 , MODULE, POWER SUPPLY: TYPE: NIVOTESTER FTC325; INPUT: 20-30/20-60 VAC; OUTPUT: 4-20 MA; APPLICATION: CAPACITIVE ROD PROBE FTI51- KAF1GGJ73Y1A; SPECIFICATION: ATEX II-1- GD-EX-IA-IIC-WHG; SUPPL P/N: FTC325- C1B11; SWITCH OUTPUT: 1X SPST LEVEL AND 1X SPST ALARM NC; HOUSING: 2-WIRE PFM 45MM; MOUNT: DIN RAIL; 1-CHANNEL SETTING VIA PUSH BUTTON; ADJUSTABLE	100

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	OPERATING DELAY; EMC ACCORDING TO NAMUR	
0660913	MODULE:7XT3400-BA00/DD;BAND-PASS FILTER , MODULE: TYPE: BAND-PASS FILTER; INPUT: 55 VAC; OUTPUT: 55VAC 30SEC; APPLICATION: STATOR EARTH FAULT PROTECTION SCHEME IN THE GENERATOR PROTETION SCHEME IN CONJUNCTION WITH THE 7XT33 20HZ SIGNAL GENERATOR WHEN MAKING USE OF THE 7UM62 PROTECTION RELAY; SUPPL P/N: 7XT3400-BA00/DD	100
0660914	MODULE:7XT3300-0BA00/DD;SIGNAL GENERATOR , MODULE: TYPE: SIGNAL GENERATOR; INPUT: 24-250 VDC; OUTPUT: 25 V; POWER SOURCE: 220 V; APPLICATION: STATOR EARTH FAULT PROTECTION SCHEME IN THE GENERATOR PROTETION SCHEME IN CONJUNCTION WITH THE 7XT33 20HZ SIGNAL GENERATOR WHEN MAKING USE OF THE 7UM62 PROTECTION RELAY; SUPPL P/N: 7XT3300-0BA00/DD	100
0661796	MODULE:R902-423-144 , MODULE: TYPE: CENTRAL PROCESSING NIT CONTROL; SPECIFICATION: A4VSG125/180EDP/30X-V; REFERENCE NO: 5776216-066; SUPPL P/N: R902-423-144	100
0662077	MODULE:T224380;TEMPERATURE-TR400, MODULE: TYPE: TEMPERATURE-TR400; INPUT: 24-240 VDC; OUTPUT: 1250 VA; APPLICATION: TEMPERATURE MONITOR; OEM P/N: T224380; PT100 TEMPERATURE RELAYS TYPE TR400 DIGITAL; 4 SENSORS; 4 LIMITS	100
0662078	MODULE:T224360;TEMPERATURE-TR600, MODULE: TYPE: TEMPERATURE-TR600; INPUT: 24-240 VDC; OUTPUT: 1250 VA; APPLICATION: TEMPERATURE MONITOR; OEM P/N: T224360; PT100 TEMPERATURE RELAYS TYPE TR600 DIGITAL; 6 SENSORS; 6 LIMITS; 2 ANALOG OUTPUT	100

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0662079	MODULE:1SVR730885R4300;3PH MONITORING , MODULE: TYPE: 3PH MONITORING; INPUT: 180-280 VAC; APPLICATION: CM-MPS.23S MULTIFUNCTION 3 PHASE RMS MONITORING RELAY; OEM P/N: 1SVR730885R4300	100
0664773	MODULE:6SL3130-7TE21-6AA4;ACTIVE LINE , MODULE: TYPE: ACTIVE LINE; APPLICATION: SAMPLING PLANT; SPECIFICATION: SINAMICS S120; OEM P/N: 6SL3130-7TE21-6AA4	100
0664774	MODULE:3UF710-1AA00-0;SAMPLING PLANT , MODULE: TYPE: SIMOCODE GROUND- FAULT; APPLICATION: SAMPLING PLANT; OEM P/N: 3UF710-1AA00-0	100
0664775	MODULE:6SL3100-0BE21-6AB0 , MODULE: TYPE: ACTIVE INTERFACE; APPLICATION: SAMPLING PLANT; SPECIFICATION: SINAMICS S120; OEM P/N: 6SL3100-0BE21- 6AB0	100
0664776	MODULE:3RK3111-1AA10;SIRIUS 3RK3;24 VDC, MODULE: TYPE: SIRIUS 3RK3; POWER SOURCE: 24 VDC; APPLICATION: SAMPLING PLANT; MODULAR SAFETY; DIMENSIONS: WD 45 MM; OEM P/N: 3RK3111-1AA10; 3RK3 4/8 F-DI; 1F-RO; IF-DO; PARAMETERIZABLE VIA SW MISS ES; TERMINAL: SCREW UP TO SIL3	100
0664777	MODULE:3RK3211-1AA10;SIRIUS 3RK32;24 VDC, MODULE: TYPE: SIRIUS 3RK32; POWER SOURCE: 24 VDC; APPLICATION: SAMPLING PLANT; MODULAR SAFETY; DIMENSIONS: WD 22.5 MM; OEM P/N: 3RK3211-1AA10	100
0664779	MODULE:3RK3251-1AA10;SIRIUS 3RK32 , MODULE: TYPE: SIRIUS 3RK32; POWER SOURCE: 24VDC 2A; APPLICATION: SAMPLING PLANT; MODULAR SAFETY; DIMENSIONS: WD 45 MM; OEM P/N: 3RK3251-1AA10	100

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0664780	MODULE:3UF7010-1AB00-0;SIMODOCODE PRO-V , MODULE: TYPE: SIMODOCODE PRO-V; POWER SOURCE: 24 VDC; APPLICATION: SAMPLING PLANT; MODULAR SAFETY; OEM P/N: 3UF7010-1AB00-0	100
0664909	MODULE:6SL3055-0AA00-5BA3;SENSOR , MODULE: TYPE: SENSOR; APPLICATION: SAMPLING PLANT SMC20 MODULES; SPECIFICATION: SINAMATICS S120; OEM P/N: 6SL3055-0AA00-5BA3	100
0664910	MODULE:6SL3120-1TE23-0AA4;MOTOR , MODULE: TYPE: MOTOR; APPLICATION: SAMPLING PLANT FOR 15KW MOTOR; OEM P/N: 6SL3120-1TE23-0AA4	100
0664911	MODULE:CURRENT MEASURING;I/P 0.3-3 A , MODULE: TYPE: CURRENT MEASURING; INPUT: 0.3-3 A; APPLICATION: SAMPLING PLANT; SUPPL P/N: 3UF7100-1AA00-0	100
0664912	MODULE:6SL3054-0EJ00-1BA0 , MODULE: TYPE: COMPACT FLASH CARD; APPLICATION: SAMPLING PLANT; OEM P/N: 6SL3054-0EJ00-1BA0	100
0179141	VSD:1;1500;1500;11 KW;400 VAC , DRIVE, VARIABLE SPEED: RATIO: 1; INPUT RPM: 1500; OUTPUT RPM: 1500; POWER: 11 KW; POWER SOURCE: 400 VAC; SUPPL P/N: ATV320D11N4B; WITH HEAT SINK; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	100
0220913	VSD:1;1500;1500;291 KW;400 VAC , DRIVE, VARIABLE SPEED: RATIO: 1; INPUT RPM: 1500; OUTPUT RPM: 1500; POWER: 291 KW; POWER SOURCE: 400 VAC; SUPPL P/N: 6RA8085-6D522-0AA0; FOR COAL STACKER RECLAIMER TRAVEL, SIZE 2.68 M WD X 3.18 M LG X 6.25 M HT; SIMATICS DCM DC CONVERTER; 219KW DC DRIVE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE	100

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	CORRECT DRAWING REVISION NUMBER (IF APPLICABLE)	
0224351	VSD:1;1500;1500;61 KW;400 VAC , DRIVE, VARIABLE SPEED: RATIO: 1; INPUT RPM: 1500; OUTPUT RPM: 1500; POWER: 61 KW; POWER SOURCE: 400 VAC; SUPPL P/N: 6RA8031-6D522-BAA0; FOR COAL STACKER RECLAIMER SLEW DRIVE, SIZE 265 MM WD X 345 MM HT X 275 MM DP, SIMOREG DC MASTER CONVERTER; SIMATICS DCM DC CONVERTER; 61KW DC DRIVE; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	100
0240960	VSD:1;1500;1500 RPM;5.5 KW;400 V , DRIVE, VARIABLE SPEED: RATIO: 1; INPUT RPM: 1500; OUTPUT RPM: 1500 RPM; POWER: 5.5 KW; POWER SOURCE: 400 V; SUPPL P/N: ATV320U55N4B; WITH HEAT SINKVENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	100
0240961	VSD:1;1500;1500 RPM;30 KW;400 V , DRIVE, VARIABLE SPEED: RATIO: 1; INPUT RPM: 1500; OUTPUT RPM: 1500 RPM; POWER: 30 KW; POWER SOURCE: 400 V; SUPPL P/N: ATV930D30N4; WITH HEAT SINK; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	100
0240962	VSD:1;1500;1500 RPM;4 KW;400 V , DRIVE, VARIABLE SPEED: RATIO: 1; INPUT RPM: 1500; OUTPUT RPM: 1500 RPM; POWER: 4 KW; POWER SOURCE: 400 V; SUPPL P/N: ATV320U40N4C; WITH HEAT SINK; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	100

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0572359	VSD:ATV71HD45N4;0:1;1500 RPM;15000 RPM , DRIVE, VARIABLE SPEED: RATIO: 0:1; INPUT RPM: 1500 RPM; OUTPUT RPM: 15000 RPM; POWER: 45 KW; POWER SOURCE: 400 V; MANUF P/N: ATV71HD45N4; 3AC; 104A; 50HZ; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	100
0662080	VSD ELECT:CFW110477T4SZ;HEAVY DUTY;3 , DRIVE, VARIABLE SPEED ELECTRICAL: TYPE: HEAVY DUTY; OUTPUT RATING: 250 KW; POTENTIAL: 400 VAC; PHASE: 3; DIMENSIONS: WD 169 X LG 486 X THK 142 MM; INPUT: 400 VAC; CURRENT: 477 A; MOUNTING METHOD: WALL; ENCLOSURE: IP20; OEM P/N: CFW110477T4SZ;	100
0662081	VSD ELECT:ATV312H075N4;HEAVY DUTY;3 , DRIVE, VARIABLE SPEED ELECTRICAL: TYPE: HEAVY DUTY; OUTPUT RATING: 0.75 KW; POTENTIAL: 400 VAC; PHASE: 3; INPUT: 400 VAC; CURRENT: 3.6 A; MOUNTING METHOD: WALL; ENCLOSURE: IP54; OEM P/N: ATV312H075N4; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	100
0664781	CHOKE:SIMATICS;VSD LINE ACTIVATOR , CHOKE: TYPE: SIMATICS; OPERATION: VSD LINE ACTIVATOR; APPLICATION: SAMPLING PLANT; FOR 7.5KW SINAMICS G120 VSD; SUPPL P/N: 6SL3203-0CE21-8AA0; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	100
0664791	CHOKE:SIMATICS;VSD LINE ACTIVATOR , CHOKE: TYPE: SIMATICS; OPERATION: VSD LINE ACTIVATOR; APPLICATION: SAMPLING PLANT; FOR 2.2KW SINAMICS G120 VSD; SUPPL P/N: 6SL3203-00E21-0AA0; VENDORS ARE RESPONSIBLE FOR ENSURING THAT	100

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	THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	
0664811	CHOKE:OUTPUT;VSD LINE ACTIVATOR, CHOKE: TYPE: OUTPUT; OPERATION: VSD LINE ACTIVATOR; APPLICATION: SAMPLING PLANT; FOR 2.2KW SINAMICS G120 VSD; SUPPL P/N: 6SL3202-0AE16-1CA0; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	100
0664812	CHOKE:OUTPUT;VSD LINE ACTIVATOR , CHOKE: TYPE: OUTPUT; OPERATION: VSD LINE ACTIVATOR; APPLICATION: SAMPLING PLANT; FOR 7.5KW SINAMICS G120 VSD; SUPPL P/N: 6SL3202-0AE21-8CA0; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	100
0664813	VSD ELECT:SYNCHRONIZER;2.2-1.5 KW;3 , DRIVE, VARIABLE SPEED ELECTRICAL: TYPE: SYNCHRONIZER; OUTPUT RATING: 2.2-1.5 KW; POTENTIAL: 380-480 10PCT; PHASE: 3; CURRENT: 6.10-7.7 A; SUPPL P/N: SL3210-1PE16-1UL1; SINAMICS G120 PM240-2 VSD FOR 2.2KW; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	100
0232058	TRANSDUCER:POWER FACTOR;I/P 63.5VAC 1A , TRANSDUCER: TYPE: POWER FACTOR; INPUT: 63.5VAC 1A; OUTPUT: 4-20 MA; POWER SOURCE: 220 VAC 50 HZ; 19 INCH, CALIBRATION -90 TO 90, 12MA UNITY	100
0256464	TRANSDUCER:POWER;O/P 4-20 MA , TRANSDUCER: TYPE: UNIVERSAL; MANUF	100

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	P/N: MI400; 2 ANALOG OUTPUTS, RS232 COMMUNICATION PORT	
0584574	TRANSDUCER:PRESSURE TO CURRENT , TRANSDUCER: TYPE: ISOLATING AMPLIFIER; INPUT: 0-10 V; OUTPUT: 0-10 V; POWER SOURCE: 18-30 VDC; MANUF P/N: 401152P001	100
0626222	TRANSDUCER: PRESSURE;I/P 0-20 MPA;24 VDC , TRANSDUCER: TYPE: PRESSURE; INPUT: 400 BAR; OUTPUT: 4-20 MA; POWER SOURCE: 8-30 VDC; APPLICATION: HYDRAULIC PACK; SUPPL P/N: HDA4745-A- 400-00N	100
0626223	TRANSDUCER: SPEED;I/P 0-3600 HZ;220 VAC , TRANSDUCER: TYPE: PRESSURE; INPUT: 60 BAR; OUTPUT: 4-20 MA; POWER SOURCE: 14-42 VDC; APPLICATION: SSC HYDRAULIC PACK; SUPPL P/N: EDS410-0060-4062	100
0637956	TRANSDUCER:ST 25C; ULTRASONIC LEVEL , TRANSDUCER: TYPE: POSITION; INPUT: 4-20 MA; OUTPUT: 20-100 KPA; POWER SOURCE: 24-38 VDC; APPLICATION: CONTROL BURNER TILT CYLINDERS; SUPPL P/N: AV2; CONNECTION: NPT1/4	100
0654525	TRANSDUCER: UNIVERSAL;2 ANALOG OUTPUTS, TRANSDUCER: TYPE: ACTIVE POWER; INPUT: 0-400 KPA; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: MAIN PRESSURE SYSTEM; SPECIFICATION: 19.003; SUPPL P/N: 56934745-006	100
0654528	TRANSDUCER:VDC3G3;VOLTAGE TO CURRENT , TRANSDUCER: TYPE: ACTIVE; INPUT: 0-400 KPA; OUTPUT: 4-20 MA; POWER SOURCE: 24 VDC; APPLICATION: CHARGE PRESSURE SYSTEM; SPECIFICATION: 19.001; SUPPL P/N: 56934745-003	100

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0584895	RESISTOR: RESISTANCE: 5 OHM; RATING: 2.8 KW; CONNECTION: HOUSING; MATERIAL: POLYPROPYLENE; TOLERANCE: +/-10 DIVIDE BY 0.1 PERCENT; TYPE: HIGH VOLTAGE; AIRCOOLED; MANUF P/N: 3BHB029421R0005; 100 PERCENT AT 40 DEGREES CELSIUS; 0 PERCENT AT 225 DEGREES CELSIUS	100
0589924	RESISTOR: RESISTANCE: 34 OHM; RATING: 2.8 KW AT 2.5 LITRE PER MINUTE; CONNECTION: CLIP ON; MATERIAL: POLYPROPYLENE; TOLERANCE: +/-3 PCT; TYPE: WATER COOLED; MANUF P/N: HIES308461R0004; MAX WATER INLET -60 DEGREES; MAX WATER OUTLET -70 DEGREES; WATER CONNECTION THREAD M10 X 1; SIZE: 6.3 X 0.8 MM	100
0115944	RESISTOR: RESISTANCE: 0.72 OHM; MATERIAL: WIREWOUND; REFERENCE NO: EJ009266A, UNK; 64 AMPS; TYPE EJ 00492; SURFACE MOUN	100
0580049	CONTROLLER: TYPE: AC 800PEC; RANGE: 64 BIT; RATING: 24 V; MANUF P/N: 3BHE023584R2334. REFERENCE NO: PP D113 B03 26 100110; WITH 30K-LUT FPGA	15
0579871	CONTROLLER: TYPE: AC; RANGE: 220 V; RATING: 380V 900A; MOUNTING: WALL; MANUF P/N: 3BHB19787R0190; REFERENCE NO: DCS800-503-900-05; VENDORS ARE RESPONSIBLE FOR ENSURING THAT THEY ARE PERFORMING AGAINST THE CORRECT DRAWING REVISION NUMBER (IF APPLICABLE).	15

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0236738	COMPUTER: TYPE: EXCITATION CONTROL TERMINAL; SUPPL P/N: 3BHE051348R1110; TYPE: FOCUS FL-T	30
580051	POWER SUPPLY: INPUT: 160-320 VDC; OUTPUT VOLTAGE: 300 VDC; OUTPUT CURRENT: 0.5 A; TYPE: DC-DC; SPECIFICATION: T5081-01A	50
580050	HEAT EXCHANGER: TYPE: VELLO DEST 10; PASS: 4; RATING: 3 BAR; PART NO: 3BHB020097R0001	20
584573	SENSOR: TYPE: SPEED; RANGE: 0.1HZ TO 120KHZ; RATING: 20-30VDC 60MA; DIMENSIONS: WD 45 X LG 110 X HT 75 MM; MANUF P/N: 3BHB018318R0001; LC DISPLAY; ZERO SPEED SENSOR; OPERATIONAL TEMPERATURE -20 DEGREES CELSIUS TO 65 DEGREES CELSIUS; STEP RESPONSE 10 TO 90 PERCENT <25MS	50
0616251	FAN, ELECTRIC: TYPE: AC CENTRIFUGAL; SIZE: LG 172 X HT 130 MM; POTENTIAL: 230 VDC; CURRENT: 2.45 A; VOLUME RATING: 1200 M3/HR; SUPPL P/N: D2E160-AH02-15	50
614035	METER, FLOW: TYPE: OPTICAL; CONNECTION: 1/2 INBSP; RANGE: 3-10L/MIN; 75-325NL/MIN; MATERIAL: NYLON	25
614037	VESSEL: TYPE: EXPANSION TANK; CAPACITY: 50 L; RATING: 10 BAR; MATERIAL: STEEL; COLOR: BERYLLIUM; SPECIFICATION: C1	15

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5. Delivery of Modules, Drives, Resistors, Diodes, Rectifier and Thyristors

The Supplier shall be responsible for:

1. Providing adequate notice of equipment delivery and co-ordinating site access with responsible personnel onsite.
2. Checking of delivery contents, as well as packing and marking of equipment before dispatch.
3. Delivery loading, transportation to site and unloading of diodes, rectifiers and thyristors once onsite.

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.

6. Acceptance

This document has been seen and accepted by:

Name	Designation
Ayanda Mahlobo	System Engineer
Mooiman Phetla	System Engineer
Remember Sigawuke	Electrical Engineering Manager
Malibongwe Mabizela	Engineering Manager

7. Revisions

Date	Rev.	Compiler	Remarks
February 2022	00	N Mkhize	This document was compiled for Suppliers to understand what need to be done.
April 2023	01	Nathi Mkhize	Additional scope was included (Modules. Resistors, Drives etc.)

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8. Development Team

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

- ☐ Nathi Mkhize

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