

PHỤ LỤC 2 - VẬT TƯ PHẦN C&I

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
1	39554013	LPMSV Actuator (Van hơi mai stop tuabin dẫn động bơm cấp	BO	ACTUATOR; HYDRAULIC MODEL: LPMSV Actuator PART NUMBER: 82620C-432000A TYPE: Hydraulic actuator SERIAL NUMBER: 82620C-432000A PRESSURE RATING: 11.2 ± 0.2 MPa MATERIAL: N/A MANUFACTURER: DEC/Trung Quốc DRAWING NUMBER: (WBG)B2620C-432000A APPLICATION: Boiler Water Feed Pump ADDITIONAL INFORMATION: DRAW:(WBG)B2620C-432000A		1.00
2	39554014	Bộ LCV Actuator van hơi điều khiển tuabin dẫn động bơm nước cấp; Product number: B2620C-333000A NO: 325201104008	BO	ACTUATOR; HYDRAULIC MODEL: LCV Actuator PART NUMBER: 325201104008 TYPE: Hydraulic actuator SERIAL NUMBER: Product number: B2620C-333000A PRESSURE RATING: 11.2 ± 0.2 MPa MATERIAL: N/A MANUFACTURER: DEC/China APPLICATION: Boiler Water Feed Pump ADDITIONAL INFORMATION: DOFENG, Electric Auto control Engineering Co. LTD		1.00
3	39553016	Sliding damper valve burner; Actuator IQ10	CAI	ACTUATOR; ELECTRICAL MODEL: Actuator IQ PART NUMBER: N/A TYPE: Actuator IQ10 FREQUENCY RATING: 50 Hz ENCLOSURE: IP68 INPUT SIGNAL: 24VDC, 4-20mA PHASE: 3 RPM: 24 rpm CYCLE TIME: 10,000 cycles (500,000 output turns) CONNECTION: F10 A VOLTS: 380 VAC TORQUE: 34 Nm SIZE: 10 POWER RATING: 380VAC TEMPERATURE RATING: (-30 +70 °C), MANUFACTURER: Rotork CONNECTION, MECHANICAL: F10 A CONNECTION,ELECTRICAL: 3 x M25 plus 1 x M40 POWER SUPPLY: 380VAC VAC DRAWING NUMBER: 103B0000 APPLICATION: Sliding damper valve burner ADDITIONAL INFORMATION: F10 A [IP68]		4.00
4	39553032	Actuator control valve; Rotork IQM10- F10-B4	CAI	ACTUATOR; ELECTRICAL MODEL: Rotork IQM PART NUMBER: N/A TYPE: Rotork IQM10-F10-B4 FREQUENCY RATING: 50HZ Hz ENCLOSURE: IP68 INPUT SIGNAL: 24VDC, 4-20mA PHASE: 3 RPM: 24 CYCLE TIME: 1,800,000 starts at load of 50% rated torque ROTATION ANGLE: 5:1 CONNECTION: F10 B4 VOLTS: 380 VAC TORQUE: 34 Nm SIZE: 10 POWER RATING: 380VAC TEMPERATURE RATING: -30 to +70 °C deg C MANUFACTURER: ROTORK POWER SUPPLY: 380 VAC APPLICATION: PAF/FDF ADDITIONAL INFORMATION: Wiring diagram: 203B0000 Speed : 24rpm; Torque max :34Nm; Enclosure : IP68 Lubrication : SAE80EP (Valeport 1002370)		1.00

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5	39500024	Positional for pneumatic valve (Actuator positioner); Digital Valve Controller	CAI	CONTROLLER; DEVICES MODEL: DVC6200 PART NUMBER: N/A TYPE: Digital Valve Controller ACCURACY: $\pm 0.5\%$ of output span AMPS: 10 mA CONNECTION: 1/4 NPT FREQUENCY: 0 Hz MATERIAL: Stainless Steel NUMBER OF OUTPUTS: DOUBLE-Acting OPERATING VOLTAGE: 30 VDC VDC OUTPUT CURRENT: 4-20 mA mA OUTPUT VOLT: 10 VDC VDC PHASE: 1 TEMPERATURE RANGE: - 40 to 85 deg C VOLTS: 11 to 30 VDC VDC MANUFACTUER: Fisher APPLICATION: For Soot Blower ADDITIONAL INFORMATION: Supply Pressure: 0,3-10,0 bar, Output Action: Double		1.00
6	39553019	Van Rotork actuator; IQTM1000- F14	CAI	ACTUATOR; ELECTRICAL MODEL: IQTM PART NUMBER: N/A TYPE: IQTM1000- F14 AMPERAGE: 1.2 A FREQUENCY RATING: 50 Hz ENCLOSURE: IP68 INPUT SIGNAL: 24VDC, 4-20mA PHASE: 3 RPM: 0.125 - 0.5 rpm CYCLE TIME: 1,800,000 starts at load of 50% rated torque CONNECTION: F14 VOLTS: 380 VAC TORQUE: 1000Nm POWER RATING: 380 VAC TEMPERATURE RATING: -30 to +70 °C deg C MANUFACTURER: ROTORK CONNECTION,ELECTRICAL: 4 x M25 POWER SUPPLY: 400-3-50 APPLICATION: PA air control damper valve for MILL ADDITIONAL INFORMATION: Speed Range: 120secs, Rated Current: 1.20 Am		2.00
7	34502011	Speed sensor; Magnetic speed sensor; 50~5000Hz Hz	CAI	SENSOR; SPEED MODEL: SZMB-9 PART NUMBER: N/A TYPE: Magnetic speed sensor OUTPUT: $\geq 300\text{mV}$ at 50r/min OUTPUT TYPE: X12K4P four-core plug POWER SUPPLY: 24VDC VDC RANGE: 50~5000Hz Hz TEMPERATURE, OPERATING: -20 ~ +60°C MANUFACTUER: "Shanghai Automation " APPLICATION: COAL FEEDER	SZMB-9	2.00
8	38302176	Power supplier; QUINT-PS; QUINT-PS-100-240AC/24DC/40	CAI	BOARD; CONTROL MODEL: QUINT-PS PART NUMBER: 2904603 TYPE: QUINT-PS-100-240AC/24DC/40 SIZE: 240x130x125 mm PHASE: 1 POWER RATING: 1051 W VOLTAGE RATING: 110-240 VAC CURRENT RATING: 12,5-4,4 A FREQUENCY RATING: 50-60 Hz APPLICATION: DCS ADDITIONAL INFORMATION: Output: 24VDC/40A		2.00

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9	39424019	Modular CPU Card & IO Card; CPU M & IOC N	CAI	CARD MODEL: 200-595-SSS-1Hh PART NUMBER: N/A TYPE: CPU M & IOC N POWER SUPPLY: N/A MANUFACTURER: Vibro-meter SA ADDITIONAL INFORMATION: Temp. Nor(°C) -20°C to +70°C Humidity: 90% Non-Condensing Modular CPU Card - Rack Interface & Local Display Input: 19.2K BAUD MAX. RS232,RS422 / 100Mbps ETHERNET Model No.200-595-SSS-1Hh		1.00
10	35691055	Power Supply; RPS 6U	CAI	POWER SUPPLY MODEL: RPS 6U PART NUMBER: No.200-582-500-011 TYPE: Power Supply CURRENT: 1.6 A CURRENT RATING: 1.6 A FREQUENCY RATING: 50-60 Hz PHASE: 1 POWER RATING: 400 W RATING,VOLTAGE: 90 ~ 240 VAC TEMPERATURE RANGE: -25°C to +65°C deg C VOLTAGE RATING: 90 ~ 240 VAC MANUFACTUER: Vibro-meter SA ADDITIONAL INFORMATION: 50~60Hz, Temp. Nor(°C) -25°C to +65°C Humidity: 95% Non-condensing	No.200-582-500-011	1.00
11	39424031	Card MPC4 độ rung bơm SN: E160987; Card MPC4	CAI	CARD MODEL: VM600 MPC4 PART NUMBER: 200-510-071-113 TYPE: Card MPC4 SIZE: 262 x 20.1 x 187 mm POWER SUPPLY: 0-16 VAC VAC MANUFACTURER: Vibro-meter SA ADDITIONAL INFORMATION: PNR: 200-510-071-113 ECR: 112300	200-510-071-113	1.00
12	39424033	Input/Output Card; IOC 4T	CAI	CARD MODEL: 6-channel signal interface card for MPC 4 PART NUMBER: 200-560-000-0XX TYPE: IOC 4T SIZE: 262 x 20.1 x 125 mm POWER SUPPLY: 1.5 W MANUFACTURER: Vibro-Meter SA ADDITIONAL INFORMATION: Temperature: -25°C to +65°C		1.00
13	39424034	Condition Monitoring Card; CMC 16	CAI	CARD MODEL: CMC PART NUMBER: 200-530-SSS-HHh TYPE: CMC 16 SIZE: 262 x 20 x 187 mm SPECIAL FEATURES: 16 individually configurable dynamic channels, 16 parallel programmable anti-aliasing filters and ADCs POWER SUPPLY: Supply voltage : 5 VDC ± 5%, Consumption from +5 VDC supply : 15 W W MANUFACTURER: Vibro-meter SA ADDITIONAL INFORMATION: Frequency range : 0.25 to 10,000 Hz, Maximum pulses per revolution : 128 for speed calculation (1 only for phase reference), Minimum rise time : 4 volts/second		1.00
14	39424047	Input/Output Card; IOC 16T	CAI	CARD MODEL: IOC PART NUMBER: N/A TYPE: IOC 16T SIZE: 262 x 20 x 125 mm SPECIAL FEATURES: 16 channel interface card for CMC 16 (Condition Monitoring Card), Screw terminal strip (48 terminals) POWER SUPPLY: Supply voltage : 5 VDC ± 5%, +12 VDC and -12 VDC, Consumption from +5 VDC supply : 2 W, Consumption from -12 VDC supply : 1 W max. MANUFACTURER: Vibro-meter SA ADDITIONAL INFORMATION: Temperature : -25°C to +65°C		1.00

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15	39424048	Power Unit; Q63P	CAI	CARD MODEL: MELSEC-Q SERIES PART NUMBER: IAD50702 TYPE: Q63P MATERIAL: Case: ABS SIZE: 55.2 x 98 x 90 mm POWER SUPPLY: 45 W MANUFACTURER: Mitsubishi ADDITIONAL INFORMATION: Voltage supply: 24 VDC, Output Current 5V (A): 6A		1.00
16	39424051	CPU của PLC; Q02UCPU	CAI	CARD MODEL: Q02UCPU PART NUMBER: IAD50702 TYPE: UNIVERSAL MODEL QCPU SIZE: 27.4 x 98 x 89.3 mm POWER SUPPLY: 5VDC 0.23A MANUFACTURER: Mitsubishi ADDITIONAL INFORMATION: Program Memory: 20K, Program Memory Unit: STEP, Local I/O Points: 2048, Local + Remote I/O Points: 8192		1.00
17	39424052	D/A Unit; Q64DAN	CAI	CARD MODEL: Q64DAN PART NUMBER: IAD50702 TYPE: ANALOG OUTPUT SIZE: 27.4 x 98 x 112 mm SPECIAL FEATURES: Occupied I/O Points on PLC: 16, Integrated Analogue Outputs: 4 POWER SUPPLY: 24 VDC, 0.24A VDC MANUFACTURER: Mitsubishi ADDITIONAL INFORMATION: Output Voltage Range (V): -10-10; 0-5; 1-5, Output Current Range (mA): 0-20; 4-20		1.00
18	39424053	DI Unit; Q42	CAI	CARD MODEL: QX42 PART NUMBER: IAD50702 TYPE: DC INPUT (PLUS COMMON) SIZE: 27.4 x 98 x 90 mm SPECIAL FEATURES: Occupied I/O Points on PLC: 64, Integrated Digital Inputs: 64 POWER SUPPLY: 24 VDC, 0.075A MANUFACTURER: Mitsubishi ADDITIONAL INFORMATION: Weight (kg): 0.143 kg, Battery included: No		1.00
19	39424054	DO Unit; QY42P	CAI	CARD MODEL: QY42P PART NUMBER: IAD50702 TYPE: TRANSISTOR OUTPUT (SINK) SIZE: 27.4 x 98 x 90 mm SPECIAL FEATURES: Occupied I/O Points on PLC: 64, Integrated Digital Outputs: 64 POWER SUPPLY: 12-24 VDC, 0.15A MANUFACTURER: Mitsubishi ADDITIONAL INFORMATION: Output Type: TRANSISTOR, Output Logic: SINK, Wiring: SCREW, Battery included: No		1.00
20	39424055	DO Unit; QY41P	CAI	CARD MODEL: QY41P PART NUMBER: N/A TYPE: TRANSISTOR OUTPUT (SINK) SIZE: 27.4 x 98 x 90 mm SPECIAL FEATURES: Occupied I/O Points on PLC: 32, Integrated Digital Outputs;32 POWER SUPPLY: 12/24 VDC, 0.105A MANUFACTURER: Mitsubishi ADDITIONAL INFORMATION: Output Type: TRANSISTOR, Output Logic: SINK, Battery included:No		1.00

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21	39424062	Cable; AC05TB	CAI	CARD MODEL: AC05TB PART NUMBER: N/A TYPE: Signal Wire MATERIAL: Pure Copper SIZE: 5 m SPECIAL FEATURES: Flexibility: 10 million times bending resistance black 5 million times POWER SUPPLY: 12/24 VDC MANUFACTURER: Mitsubishi ADDITIONAL INFORMATION: Process: gold plating		1.00
22	58701009	4.5 Inch TouchPanel; GT1030-HBD2	CAI	DISPLAY SCREEN; OTHER TYPE: GT1030-HBD2 SIZE: W137(5.39) H66(2.59) [mm](inch) POWER SUPPLY RATING: 24 VDC TEMPERATURE RATING: 0-50 deg C POWER RATING: 2.2W (90mA/24VDC) or less W FEATURES: Improved monitoring performance and connectivity to FA devices ADDITIONAL INFORMATION: Mitsubishi, External dimensions: W145(5.7) x H76(2.99) x D29.5(1.16) [mm](inch) (Horizontal format)		1.00
23	31558036	Cable; GT10-C30R2- 6P	CAI	CABLE; COPPER-COATED LOW-VOLTAGE TYPE: GT10-C30R2-6P VOLTAGE RATING: 12 VDC NUMBER CORE: 6 P TEMPERATURE RATING: 0-50 deg C APPLICATION: Cable for multiple GOT connections COLOR: WHITE INSULATION MATERIAL: PVC LENGTH: 3 m ADDITIONAL INFORMATION: Mitsubishi		1.00
24	35691056	Potentiometer Converter; W5MS-11- R	CAI	POWER SUPPLY MODEL: W5-UNIT Series PART NUMBER: N/A TYPE: W5MS-11-R CURRENT RATING: 0 – 20 mA DC POWER RATING: 0.48 W RATING,VOLTAGE: 24 VDC SIZE: 45 x 94 x 41 mm TEMPERATURE RANGE: -5 to +55°C deg C MANUFACTUER: M-SYSTEM APPLICATION: PLC SYSTEM ADDITIONAL INFORMATION: 0 – 10 mV DC (Load resistance 10 kΩ min.)		1.00
25	38302107	Bộ mạch điều khiển; MODULE; Double analog I/O module X13650731070	CAI	BOARD; CONTROL MODEL: BRD04875 PART NUMBER: X13650731070 TYPE: Dual Analog In/Out Module POWER RATING: 20 VDC VOLTAGE RATING: 20 VDC CURRENT RATING: 4-20 mA FREQUENCY RATING: None Frequency APPLICATION: RTAC CH530 Rotary Chiller ADDITIONAL INFORMATION: X13650731070) MODULE; Double analog I/O module		1.00
26	38302108	Power Supply Module; X13650737070; Module;Power Supply Module	CAI	BOARD; CONTROL MODEL: BRD02102 PART NUMBER: X13650737070 TYPE: Module;Power Supply Module POWER RATING: 27 VAC VOLTAGE RATING: 24 VDC CURRENT RATING: N/A FREQUENCY RATING: 50 Hz APPLICATION: RTAC CH530 Rotary Chiller ADDITIONAL INFORMATION: Power Supply Module		1.00

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27	38302109	Bo mạch đầu vào; X13650728070; MODULE; DUAL BINARY INPUT	CAI	BOARD; CONTROL MODEL: X13650728070 PART NUMBER: BRD04873 TYPE: MODULE; DUAL BINARY INPUT POWER RATING: Very Low VOLTAGE RATING: 24 VDC CURRENT RATING: Very Low FREQUENCY RATING: 0 Hz APPLICATION: RTAC CH530 Rotary Chiller ADDITIONAL INFORMATION: MODULE; DUAL BINARY INPUT, Trane/China		1.00
28	38302111	Bo mạch; X13650729050; MODULE; DUAL HIGH VOLTAGE	CAI	BOARD; CONTROL MODEL: X13650729050 PART NUMBER: BRD04874 TYPE: MODULE; DUAL HIGH VOLTAGE MATERIAL: Copper and Plastic POWER RATING: 115 VA VOLTAGE RATING: 115 VAC CURRENT RATING: N/A FREQUENCY RATING: 50 Hz APPLICATION: RTAC CH530 Rotary Chiller ADDITIONAL INFORMATION: Trane/China		1.00
29	38302113	Bo mạch điều khiển; X13650734060; DUAL TRIAC OUTPUT	CAI	BOARD; CONTROL MODEL: X13650734060 PART NUMBER: BRD04876 TYPE: Dual Triac Output Board POWER RATING: 115 VAC VOLTAGE RATING: 115 VAC CURRENT RATING: N/A FREQUENCY RATING: 50 Hz APPLICATION: RTAC CH530 Rotary Chiller ADDITIONAL INFORMATION: DUAL TRIAC OUTPUT, Trane/China		1.00
30	38302131	Bo mạch điều khiển chính; X13650806050; MODULE; RELAY OUTPUT QUAD	CAI	BOARD; CONTROL MODEL: X13650806050 PART NUMBER: BRD04879 TYPE: MODULE; RELAY OUTPUT QUAD POWER RATING: 115 VAC VOLTAGE RATING: 115 VAC CURRENT RATING: N/A FREQUENCY RATING: 50 Hz APPLICATION: RTAC CH530 Rotary Chiller ADDITIONAL INFORMATION: RELAY OUTPUT QUAD, Trane/China		1.00
31	38302132	Bo mạch điều khiển chính; X13650733070; Module; Uual Relay Output	CAI	BOARD; CONTROL MODEL: X13650733070 PART NUMBER: BRD04878 TYPE: Dual Relay Output Board POWER RATING: 115 VAC VOLTAGE RATING: 115 VAC CURRENT RATING: N/A FREQUENCY RATING: 50 Hz APPLICATION: RTAC CH530 Rotary Chiller ADDITIONAL INFORMATION: Uual Relay Output, Trane/China		1.00
32	38302133	Bộ điều khiển UC800; X13651144010; MODULE; ASSEMBLY LARGE BASE TRACER UC800	CAI	BOARD; CONTROL MODEL: X13651144010 PART NUMBER: MOD01628 TYPE: MODULE; ASSEMBLY LARGE BASE TRACER POWER RATING: 5.04 W VOLTAGE RATING: 24 VDC CURRENT RATING: 210 mA FREQUENCY RATING: N/A Hz APPLICATION: RTAC CH530 Rotary Chiller ADDITIONAL INFORMATION: The Tracer UC800 provides the equipment system sequences and performs closed loop control. The Tracer UC800 provides integration with other BACnet systems and devices using BACnet MS/TP.		1.00

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33	38302134	Bộ mạch điều khiển; X13651571010	CAI	BOARD; CONTROL MODEL: X13651571010 PART NUMBER: MOD02947 TYPE: Tracer™ TD7 POWER RATING: 21 VA VOLTAGE RATING: 24 VAC CURRENT RATING: 0.875 A FREQUENCY RATING: 50/60 Hz APPLICATION: RTAC CH530 Rotary Chiller ADDITIONAL INFORMATION: Display, TD7, Trane/China		1.00
34	34490039	Cảm biến nhiệt độ X13651507030; Module, Temp Sensor, Fast	CAI	SENSOR MODEL: X13651507030 PART NUMBER: SEN02039 TYPE: Fast Response POWER SUPPLY: 24 VDC TEMPERATURE RANGE: 2°F for 180 °F deg F MANUFACTURER: Trane APPLICATION: RTAG310HP Rotary Chiller		1.00
35	38302141	Bộ điều khiển; MODULE; EXV, OVERMOLD CABLE ADAPTOR, 4 PIN M12	CAI	CONTROLLER; ACCESSORIES MODEL: X13650736130 PART NUMBER: MOD02688 TYPE: Module Expansion Valve Adaptor MANUFACTURER: Trane POWER SUPPLY: 24 VDC APPLICATION: RTAG Air-Cooled HelicalRotary Liquid Chillers RTAG310HP ADDITIONAL INFORMATION: MODULE; EXV, OVERMOLD CABLE ADAPTOR, 4 PIN M12 CABLE WITH MALE PLASTIC GLOBAL CONNECTION		1.00
36	29074001	Cuộn nam châm X13321313010; Coil; 36"leads	CAI	MAGNET; POWER TYPE: COL16745 SIZE: 36"leads CAPACITY: N/A SPECIAL FEATURES: X13321313010 POWER: 120 V APPLICATION: RTAG Air-Cooled HelicalRotary Liquid Chillers RTAG310HP ADDITIONAL INFORMATION:)Coil; 36"leads, Trane/China		1.00
37	29074002	Cuộn nam châm; X13320337010 COIL - ELECTRICAL; SOLENOID	CAI	MAGNET; POWER TYPE: X13320337010 COIL - ELECTRICAL; SOLENOID SIZE: 7/8" Knockout For Conduit Fitting CAPACITY: N/A POWER: 120 VAC APPLICATION: RTAG Air-Cooled HelicalRotary Liquid Chillers RTAG310HP ADDITIONAL INFORMATION: COIL - ELECTRICAL; SOLENOID, 120VAC, 50/60HZ, Trane/China		1.00
38	35691057	Power MMS; QUINT- PS/1AC/24DC/3.5	CAI	POWER SUPPLY MODEL: QUINT-PS PART NUMBER: N/A TYPE: QUINT-PS/1AC/24DC/3.5 CURRENT: 3.5 A CURRENT RATING: 0.8 A FREQUENCY RATING: 50 Hz PHASE: 1 POWER RATING: 180 VA RATING,VOLTAGE: 100 V AC ... 240 V AC VAC TEMPERATURE RANGE: -25 °C ... 70 °C deg C VOLTAGE RATING: 24 VDC MANUFACTURER: Phoenix Contact APPLICATION: MMS ADDITIONAL INFORMATION: Dimensions: 32 x 130 x 125 mm		1.00

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39	34505015	Vibration Acceleration Sensor; AS-062/100/0; ± 80 g (Umax = +24 V...+30 V) : ±7%	CAI	SENSOR; VIBRATION MODEL: AS-062 PART NUMBER: N/A TYPE: AS-062/100/0 FREQUENCY RANGE: 4 ... 10 kHz (± 5 %) LENGTH: 10 m MOUNTING: screw fittings, clamps OUTPUT: ≤ 300 Ω (working frequency range) approx. 2 KΩ OUTPUT TYPE: resistor POWER SUPPLY: Min.+ 18 VDC/ Max.+ 30 VDC VDC RANGE: ± 80 g (Umax = +24 V...+30 V) : ±7% MANUFACTUER: B&K Vibro APPLICATION: Boiler ADDITIONAL INFORMATION: Working temperature: - 50 °C ... + 125 °C,		10.00
40	38302166	SUBMERGED CHAIN CONVEYOR ZERO SPEED CONTROL BOARD; Prox Micro Proximity Sensor Proximity Switch - Double Trip - Includes Sensor and 6.5' cable; PRX 120	CAI	BOARD; CONTROL MODEL: Prox Micro Proximity Sensor Proximity Switch - Double Trip - Includes Sensor and 6.5' cable PART NUMBER: N/A TYPE: PRX 120 PHASE: 1 POWER RATING: 120 VAC VOLTAGE RATING: 120 VAC CURRENT RATING: 100 mA FREQUENCY RATING: 0.1Hz to 1000Hz Hz APPLICATION: SUBMERGED CHAIN CONVEYOR ADDITIONAL INFORMATION: Conduit Entry: (1) 1/2" NPT, Temperature Range: -40 to +158F (-40 to 70C)		1.00
41	34496001	Zero speed scraper chain conveyor; U - SHAPED TYPE	CAI	SENSOR; MOVEMENT MODEL: BUP-30 PART NUMBER: N/A TYPE: U - SHAPED TYPE MATERIAL: Case: ABS, Cap: PC OUTPUT CURRENT: 200 mA OUTPUT VOLT: MAX 30 VDC POWER SUPPLY: 12-24 VDC PROTECTION TYPE: IP66 PROXIMITY DISPLACEMENT RANGE: N/A TEMPERATURE RANGE: -25 to +65 deg C VOLTAGE RATING: 12-24 VDC MANUFACTURER: Autonics APPLICATION: Scraper Chain Conveyor ADDITIONAL INFORMATION: Dimensions: 52 x 72 x 20 mm		1.00
42	34498005	Sensor đo áp suất; HDA 4700; 600 bar	CAI	SENSOR; PRESSURE MODEL: HDA 4745-F21-0400-000 PART NUMBER: N/A TYPE: HDA 4700 ACCURACY: 0.25% MATERIAL: Connector: Stainless steel Seal ring: FKM OUTPUT CURRENT: 4-20 mA POWER SUPPLY: 9-35 VDC PRESSURE RANGE: 600 bar TEMPERATURE RANGE: -40 to 85 deg C MANUFACTUER: HYDAC APPLICATION: Scraper Chain Conveyor ADDITIONAL INFORMATION: Connection: G1/4 A DIN 3852		1.00
43	39500198	CONTROLLER DEVICES; LFL1.322	BO	CONTROLLER; DEVICES MODEL: LFL1... PART NUMBER: BPZ:LFL1.322 TYPE: LFL1.322 AMPS: Max 10 A CONSTRUCTION: Boiler Burner DEGREE OF PROTECTION: IP40 DIMENSION: 103 x 103 x 108.5 mm FREQUENCY: 50/60 Hz OPERATING VOLTAGE: 220-240 VAC PHASE: 1 TEMPERATURE RANGE: -20 to 60 deg C MANUFACTUER: SIEMENS APPLICATION: Boiler controller		2.00

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44	38310160	Coal feeding machine controller DT9; VCU 20103; Central Control Unit	BO	CONTROLLER; ACCESSORIES MODEL: VCU 20103 PART NUMBER: N/A TYPE: Central Control Unit MANUFACTUER: Schenck Process GmbH POWER SUPPLY: 85 - 240 VAC CONNECTION: Cable mounting with cable binders and screen clamps OUTPUT: 24 VDC APPLICATION: Coal feeding machine ADDITIONAL INFORMATION: Touch screen: Backlit color touch screen, Active Area 120mm (Width) x 64mm (Height); Dual core processor Main processor ARM9, Secondary processor ARM7, Operating temperature range (outside of housing) -25 °C ... +50 °C		1.00
45	38304115	Analog Input Module; 6ES7 331-7KF02-0AB0; Analog Input Module; SIMATIC S7-300, Analog input SM 331, isolated, 8 AI, Resolution 9/12/14 bits, U/I/thermocouple/resistor, alarm, diagnostics, 1x 20-pole Removing/inserting with active backplane bus	CAI	PROGRAMMER; MODULE MODEL: 6ES7 331-7KF02-0AB0 PART NUMBER: 6ES7 331-7KF02-0AB0 TYPE: Analog Input Module VOLTAGE RATING: 24 V BRAND NAME: SIEMENS MOUNT TYPE: Embedded Installation APPLICATION: PLC Siemens ADDITIONAL INFORMATION: SIMATIC S7-300, Analog input SM 331, isolated, 8 AI, Resolution 9/12/14 bits, U/I/thermocouple/resistor, alarm, diagnostics, 1x 20-pole Removing/inserting with active backplane bus		2.00
46	39554011	Actuator HP/LP bypass (TPS15486); Actuator Upgrade	BO	ACTUATOR; HYDRAULIC MODEL: GHZ 80/30-330-V-VITON PART NUMBER: Tag No. 10LBA12A A301 TYPE: Actuator Upgrade SERIAL NUMBER: Tag No. 10LBA12A A301 PRESSURE RATING: 33 MPa MATERIAL: Steel MANUFACTURER: CCI APPLICATION: HP/LP BYPASS ADDITIONAL INFORMATION: Hydraulic cylinder, double acting, double rod, C3, RAL7031(GHZ 80/30-330-V-VITON) Modulaton control block Piping set for PV4 Positon transmitter including limit switches. Carbon steel, C3, RAL7035, thickness 1,5mm Quick stroking device		1.00
47	39554012	Actuator HP/LP bypass spray (TPS15490); Actuator Upgrade GHZ-50/20x65-V-VITON	CAI	ACTUATOR; HYDRAULIC MODEL: GHZ-50/20x65-V-VITON PART NUMBER: Tag No. TBA. (New actuator assembly for 202833- 2CH including controls and PVK) TYPE: Actuator Upgrade GHZ-50/20x65-V-VITON SERIAL NUMBER: N/A PRESSURE RATING: N/A MATERIAL: N/A MANUFACTURER: CCI APPLICATION: N/A ADDITIONAL INFORMATION: Hydraulic cylinder, double acting, double rod, C3, RAL7031(GHZ-50/20x65-V-VITON) Modulaton control block Piping set for PV4 Positon transmitter including limit switches. Carbon steel, C3, RAL7035, thickness 1,5mm		1.00
48	39509001	Bộ điều khiển van HP Bypass; PVR 10-10	CAI	CONTROLLER; PRESSURE MODEL: N/A PART NUMBER: Art. No: 103.215.285.210 TYPE: PVR 10-10 PRESSURE RANGE: N/A MANUFACTUER: N/A ADDITIONAL INFORMATION: WAG-Art. No: 727.2068 WAG-Bez: ED1AA #5 Version: R, Winterthur Switzerland		1.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
49	35691149	power supply module; Redundant power supply; 91.2 W; 24 VDC	CAI	POWER SUPPLY MODEL: 140CPS22400 PART NUMBER: WX193500516 TYPE: Redundant power supply CURRENT: 3800 mA POWER RATING: 91.2 W RATING,VOLTAGE: 24 VDC MANUFACTUER: Schneider APPLICATION: HP-LP bypass ADDITIONAL INFORMATION: Output voltage 5.1 V DC, Module format Standard		1.00
50	39411074	Module RIO 1 Connector Quantum; 140CRP93100; S908 1CH	CAI	HARDWARE; COMMUNICATION MODEL: 140CRP93100 PART NUMBER: 3595861133754 TYPE: S908 1CH ACCESSORIES: N/A AMPERAGE RATING: 600 mA CAPACITY,STORAGE: I/O words/drop 64 I/64 O INTERFACE TYPE: Modicon Quantum SIZE: 51 x 104 x 290 mm SPECIAL FEATURES: 1 connector with single cable SPEED: 1544 Mbit/s VOLTAGE RATING: 5v MANUFACTUER: Schneider APPLICATION: HP/LP bypass ADDITIONAL INFORMATION: RIO HEAD-END ADAPTOR MODULE MODICON QUANTUM – 1 CONNECTOR WITH SINGLE CABLE		1.00
51	38304080	CPU Module; 140CPU43412A; 486 Controller	CAI	PROGRAMMER; MODULE MODEL: 140CPU43412A PART NUMBER: N/A TYPE: 486 Controller VOLTAGE RATING: 3 V Lithium BRAND NAME: Schneider MOUNT TYPE: mounted in frame APPLICATION: HP/LP bypass ADDITIONAL INFORMATION: Software name ProWORX 32 Concept; Processor name 80486		1.00
52	38304081	Quantum Hot Standby Module; 140CHS11000; S911 HOT STANDBY	CAI	PROGRAMMER; MODULE MODEL: 140CHS11000 PART NUMBER: N/A TYPE: S911 HOT STANDBY VOLTAGE RATING: N/A BRAND NAME: Schneider MOUNT TYPE: mounting brackets APPLICATION: HP/LP bypass ADDITIONAL INFORMATION: Software designation: ProWORX 32 NxT V2.0		1.00
53	39411075	Ethernet network TCP/IP module, Modicon Quantum, transparent ready, 750mA at 5VDC; 140NOE77101; Ethernet network TCP/IP module	CAI	HARDWARE; COMMUNICATION MODEL: 140NOE77101 PART NUMBER: N/A TYPE: Ethernet network TCP/IP module ACCESSORIES: Unit Type of Package 1 PCE AMPERAGE RATING: 750 mA CAPACITY,STORAGE: N/A INTERFACE TYPE: MT/RJ - 100BASE-FX fiber optic, RJ45 - 10BASE-T/100BASE-TX twisted pair SIZE: 51 x 104 x 290 mm SPECIAL FEATURES: Communication port protocol Ethernet Modbus TCP/IP SPEED: 10/100 Mbit/s VOLTAGE RATING: 5 VDC MANUFACTUER: SCHNEIDER APPLICATION: HP/LP bypass system ADDITIONAL INFORMATION: Ethernet network TCP/IP module - class B30 -data editor, rack viewer		1.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
54	35691149	power supply module; Redundant power supply; 91.2 W; 24 VDC	CAI	POWER SUPPLY MODEL: 140CPS22400 PART NUMBER: WX193500516 TYPE: Redundant power supply CURRENT: 3800 mA POWER RATING: 91.2 W RATING,VOLTAGE: 24 VDC MANUFACTUER: Schneider APPLICATION: HP-LP bypass ADDITIONAL INFORMATION: Output voltage 5.1 V DC, Module format Standard		1.00
55	39411087	RIO drop adaptor module; RIO drop adaptor module Modicon Quantum - 1 connector with single cable	CAI	HARDWARE; COMMUNICATION MODEL: 140CRA93100 PART NUMBER: 21192708066 TYPE: RIO drop adaptor module Modicon Quantum - 1 connector with single cable AMPERAGE RATING: 600 mA 1 channel SIZE: 51 x 104 x 290 mm SPEED: 1544 Mbit/s MANUFACTUER: Schneider APPLICATION: HP-LP Bypass ADDITIONAL INFORMATION: RIO drop adaptor module ModiconQuantum; Ranges: MB+ Node 01-64 RI/O Drop: 02-32		1.00
56	38304144	Discrete DC Input Module; 140 DDI 353 00; Low voltage dc discrete input modules	CAI	PROGRAMMER; MODULE MODEL: 140 DDI 353 00 PART NUMBER: N/A TYPE: Low voltage dc discrete input modules VOLTAGE RATING: 24 VDC BRAND NAME: Schneider MOUNT TYPE: Racks for Modules Mounting APPLICATION: PLC SYSTEM ADDITIONAL INFORMATION: 24V 4X8 SINK, Dimensions: 4.0" x 10.0" x 2.0" (10.2 cm x 25.4 cm x 5.1 cm) Weight: 0 lbs 11.0 oz (0.3kg);		1.00
57	38304078	OUTPUT MODULE; 140 DDO 353 01; I/O Modules	CAI	PROGRAMMER; MODULE MODEL: 140 DDO 353 01 PART NUMBER: 140DDO35301 TYPE: I/O Modules VOLTAGE RATING: 24 VDC BRAND NAME: TSX Quantum Schneider MOUNT TYPE: mounted in frame APPLICATION: I/O Modules ADDITIONAL INFORMATION: 16 AMP; 4 X 8 CHANNELS; -40 TO +85 DEGREE C		1.00
58	39414039	analog input module Modicon Quantum - 16 I multirange; 140 ACI 040 00; Analogue input module	CAI	COMMUNICATIONS HARDWARE; MODEMS MODEL: 140 ACI 040 00 PART NUMBER: 21151826072 TYPE: Analogue input module POWER SUPPLY: 5 W SIZE: 51 x 104 x 290 mm MANUFACTUER: Schneider Electric APPLICATION: HP-LP Bypass ADDITIONAL INFORMATION: Analogue input number 16, Absolute maximum input 30 mA, Input impedance 250 Ohm		1.00
59	39414001	analog output module Modicon Quantum - 8 O multirange; 140ACO13000; Analogue output module	CAI	COMMUNICATIONS HARDWARE; MODEMS MODEL: 140ACO13000 PART NUMBER: N/A TYPE: Analogue output module POWER SUPPLY: 5 SIZE: 51 x 104 x 290 mm MANUFACTUER: Schneider Electric APPLICATION: HP-LP Bypass ADDITIONAL INFORMATION: Addressing requirement 8 output words, Loop voltage 6...30 V DC, Maximum voltage drop <30 V 25 mA		1.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
60	51335179	Van solenoid; WDPFA06-ACB-S-32-G24/WD-D1; 210 x 49 x 83 mm	BO	VALVE; SOLENOID TYPE: WDPFA06-ACB-S-32-G24/WD-D1 SIZE: 210 x 49 x 83 mm AMPS: 930 mA TEMPERATURE RATING: -20...+70 °C deg C NOMINAL SIZE: NG6 according to ISO 4401-03 WATTS: 22.3 W VOLTS: 24 VDC SEAL MATERIAL: FKM RATING: 350 bar MATERIAL: Metal housing, round END STYLE: Flange construction END CONNECTION PREPARATION: Connector socket EN 175301 – 803 COIL TYPE: 24 VDC APPLICATION: HP-LP Bypass ADDITIONAL INFORMATION: Nominal volume flow rate QN: 32 l/min, International standard interface ISO, NG6		1.00
61	51335100	Van solenoid; BM32041a/L23-D1HB6-K9S1494 #2; 135 x 38 x 77.8 ; 0,95 kg mm	BO	VALVE; SOLENOID TYPE: BM32041a/L23-D1HB6-K9S1494 #2 SIZE: 135 x 38 x 77.8 ; 0,95 kg mm AMPS: 0.91 A TEMPERATURE RATING: -25 to 70 deg C ENCLOSURE: IP65 NOMINAL SIZE: Nominal size 4 - mini WATTS: 22 W VOLTS: 24 VDC SEAL MATERIAL: FKM (Viton) MATERIAL: Case: aluminium END STYLE: Screw plug HB0 (incl. seal) END CONNECTION PREPARATION: Connector socket EN 175301 – 803 COIL TYPE: 24 VDC ADDITIONAL INFORMATION: HP/LP BYPASS		1.00
62	51335180	Van solenoid; BM4Z30a-y-G24-D1; 103x68.5x30 mm	BO	VALVE; SOLENOID TYPE: BM4Z30a-y-G24-D1 SIZE: 103x68.5x30 mm AMPS: 0.83 A TEMPERATURE RATING: -25...+70 °C deg C ENCLOSURE: IP65 NOMINAL SIZE: NG3-Mini according to Wandfluh standard WATTS: 20 W VOLTS: 24 VDC SEAL MATERIAL: NBR RATING: 350 bar MATERIAL: Steel END STYLE: Threaded COIL TYPE: 24 VDC VDC ADDITIONAL INFORMATION: Construction: Direct operated, Mounting: Flange construction		1.00
63	34503149	Resistance thermometer; Pt100/B/2; -50 to +150 deg C; -30 ... +150 deg C	CAI	SENSOR; TEMPERATURE MODEL: TR36 PART NUMBER: N/A TYPE: Pt100/B/2 ACCURACY: Class A DIAMETER: 6 mm POWER SUPPLY: 24VDC, 4-20mA RANGE OF UNITS MEASURED: -50 to +150 deg C TEMPERATURE RANGE: -30 ... +150 deg C MANUFACTUER: WIKA APPLICATION: HP LP BYPASS ADDITIONAL INFORMATION: Hydraulic oil tank temperature sensor: Model: TR36 Tecsis Code TEP11X321809 Output signal: Pt100 Class B (IEC 60751), 2-wire		1.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
64	35050029	PTC Relay 2COC (No: 2961105 Supply: 24VDC (Coil)); Miniature (Thermistor motor protection relays); REL-MR- 24DC/21; 24 VDC; 6 A	CAI	RELAY; POWER TYPE: Miniature (Thermistor motor protection relays) MODEL/PART NUMBER: REL-MR-24DC/21 VOLTAGE RATING: 24 VDC VOLTAGE CONTROL: N/A CURRENT RATING: 6 A CURRENT FRAME/TRIP: N/A MANUFACTURER: Phoenix Contact SUPPLY CODE: 2961105 SUPPLIER: N/A BREAKING CAPACITY: 2 A (at 24 V, DC13) A ADDITIONAL INFORMATION: Motor load according to UL 508 1/4 HP, 240 - 277 V AC (N/O contact) 1/6 HP, 240 - 277 V AC (N/C contact)	Miniature REL-MR- 24DC/21	1.00
65	34206006	Bộ isolator	CAI	ISOLATOR; ELECTRICAL MODEL: MINI Analog PART NUMBER: N/A TYPE: MINI MCR-SL-1CP-I-I POWER SUPPLY: 34 mW mW INPUT: 18 V VDC OUTPUT: 0 mA ... 20 mA VOLTAGE RATING: 18 V VDC CURRENT RATING: 0 mA ... 20 mA mA IMPEDANCE: N/A SIZE: 6.2 x 93.1 x 101.2 mm CONNECTION: Screw connection MOUNTING: DIN rail mounting MANUFACTURER: Phoenix Contact APPLICATION: HP LP BYPASS ADDITIONAL INFORMATION: Ord.-No: 28 64 41 9 In/Out: 4...20mA Max. Load 600Ohm at 20mA output		1.00
66	35691075	Bộ nguồn từ HP Bypass	CAI	POWER SUPPLY MODEL: QUINT-PS PART NUMBER: 2866789 TYPE: QUINT-PS/1AC/24DC/40 POWER RATING: 1200 W RATING,VOLTAGE: 85 V AC ... 264 V AC MANUFACTUER: PhoenixContact ADDITIONAL INFORMATION: Input: 100-240V~/50-60Hz/11.9- 5.0A 90-300VDC(UL508:250VDC)/11.4-3.9A Output: 24VDC/40A (Boost 45A; 200A/12ms)		1.00
67	38300064	CPU PLC; 214- 1AD23-0XB0	CAI	CONTROLLER; PROGRAMMABLE LOGIC MODEL: 214-1AD23-0XB0 PART NUMBER: N/A TYPE: COMPACT UNIT, DC POWER SUPPLY 14 DI DC/10 DO DC, 8/12 KB CODE/8 KB DATA, PROFIBUS DP EXTENDABLE AMPERAGE RATING: 12 A CONNECTION: Plug-in I/O terminals DEGREE OF PROTECTION: IP20 DIMENSION: 120.5 x 80 x 62 mm EQUIPMENT/PACKAGE: N/A FREQUENCY: 0 Hz MOUNTING: mounted to the rack NUMBER OF OUTPUTS: 10 DO OPERATING VOLTAGE: 24 VDC OUTPUT CURRENT: 280 mA OUTPUT VOLT: 20 VDC PHASE: 1 POWER RATING: 350 W SPECIAL FEATURES: N/A SUPPLIER: Siemens MANUFACTUER: Siemens APPLICATION: HP LP BYPASS ADDITIONAL INFORMATION: PLC S7 200 CPU 224		1.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
68	38310082	EM222 PLC; 222-1BF22-0XA0	BO	CONTROLLER; ACCESSORIES MODEL: 222-1BF22-0XA0 PART NUMBER: N/A TYPE: SIMATIC S7-200, DIGITAL OUTPUT EM 222, FOR S7-22X CPU ONLY, 8DQ, 24 V DC, MANUFACTUER: Siemens POWER SUPPLY: 24 VDC CONNECTION: Plug-in I/O terminals MEMORY: N/A INPUT: from backplane bus 5 V DC, max. 50 mA OUTPUT: 20 VDC, 750 mA APPLICATION: HP LP BYPASS ADDITIONAL INFORMATION: Dimensions: 45 x 80 x 62 mm		1.00
69	38310083	EM231 PLC; 231-0HC22-0XA0; EM231 AI4x12bit	BO	CONTROLLER; ACCESSORIES MODEL: 231-0HC22-0XA0 PART NUMBER: N/A TYPE: EM231 AI4x12bit MANUFACTUER: Siemens POWER SUPPLY: 24 VDC CONNECTION: Plug-in MEMORY: N/A INPUT: 20 mA OUTPUT: None Output APPLICATION: HP LP BYPASS ADDITIONAL INFORMATION: permissible input voltage for voltage input (destruction limit), max:30 V, permissible input current for current input (destruction limit), max.: 20mA		1.00
70	34503068	Temperature Sensor; PT100 ,Duplex RTD; -50~350°C deg C; -50~350°C deg C	CAI	SENSOR; TEMPERATURE MODEL: WZPM2-12 PART NUMBER: WZPM2-12-50-G1/2-S-V TYPE: PT100 ,Duplex RTD CONNECTION, PROCESS: G1/2: Thread G1/2 CONSTRUCTION: S: Retractable type DIAMETER: 12: Probe diameter φ 12 MATERIAL: Platinum MOUNT TYPE: Thread POWER SUPPLY: 24 VDC RANGE OF UNITS MEASURED: -50~350°C deg C SENSOR LENGTH: 50 mm TEMPERATURE RANGE: -50~350°C deg C MANUFACTUER: DONGFANG YOYIK(DEYANG)ENGINEERING CO., LTD APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Thermal Response Time: τ0.5<90s		1.00
71	34503054	Nhiệt độ gói bơm cấp	CAI	SENSOR; TEMPERATURE MODEL: WZPM2-08 PART NUMBER: WZPM2-08-107.5-M18-S TYPE: PT100 ,Duplex RTD CONNECTION, PROCESS: Thread M18 CONSTRUCTION: S: Retractable type DIAMETER: Probe diameter φ 8 MATERIAL: Platinum MOUNT TYPE: Thread POWER SUPPLY: 24 VDC RANGE OF UNITS MEASURED: -50~350°C deg C SENSOR LENGTH: 107.5 mm TEMPERATURE RANGE: -50~350°C deg C MANUFACTUER: DONGFANG YOYIK(DEYANG)ENGINEERING CO., LTD APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Thermal Response Time: τ0.5<90s		1.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
72	34503195	Temperature Sensor (RTD); PT100 ,Duplex RTD; - 50~350°C deg C; - 50~350°C deg C	BO	SENSOR; TEMPERATURE MODEL: WZPM2-08 PART NUMBER: WZPM2-08-78-M18-S TYPE: PT100 ,Duplex RTD CONNECTION, PROCESS: Thread M18 CONSTRUCTION: S: Retractable type DIAMETER: Probe diameter ϕ 8 MATERIAL: Platinum MOUNT TYPE: Thread POWER SUPPLY: 24 VDC RANGE OF UNITS MEASURED: -50~350°C deg C SENSOR LENGTH: 78 mm TEMPERATURE RANGE: -50~350°C deg C MANUFACTUER: DONGFANG YOYIK(DEYANG)ENGINEERING CO., LTD APPLICATION: Motor driven boiler feed pump shaft bearing ADDITIONAL INFORMATION: Thermal Response Time: τ 0.5<90s		1.00
73	34503090	Temperature Sensor; PT100 ,Duplex RTD; - 50~350°C deg C; - 50~350°C deg C	CAI	SENSOR; TEMPERATURE MODEL: WZPM2-08 PART NUMBER: WZPM2-08-75-M18-S TYPE: PT100 ,Duplex RTD CONNECTION, PROCESS: Thread M18 CONSTRUCTION: S: Retractable type DIAMETER: Probe diameter ϕ 8 MATERIAL: Platinum MOUNT TYPE: Thread POWER SUPPLY: 24 VDC RANGE OF UNITS MEASURED: -50~350°C deg C SENSOR LENGTH: 75 mm TEMPERATURE RANGE: -50~350°C deg C MANUFACTUER: DONGFANG YOYIK(DEYANG)ENGINEERING CO., LTD APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Thermal Response Time: τ 0.5<90s	WZPM2-08-75-M18-S	1.00
74	34503055	Nhiệt độ nước chèn	CAI	SENSOR; TEMPERATURE MODEL: WZPM2-08 PART NUMBER: WZPM2-08-67.5-M18-B TYPE: PT100 ,Duplex RTD CONNECTION, PROCESS: Thread M18 CONSTRUCTION: B: Movable ferrule DIAMETER: Probe diameter ϕ 8 MATERIAL: Platinum MOUNT TYPE: Thread POWER SUPPLY: 24 VDC RANGE OF UNITS MEASURED: -50~350°C deg C SENSOR LENGTH: 67.5 mm TEMPERATURE RANGE: -50~350°C deg C MANUFACTUER: DONGFANG YOYIK(DEYANG)ENGINEERING CO., LTD APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Thermal Response Time: τ 0.5<90s		1.00
75	34503056	Nhiệt độ gối bơm	CAI	SENSOR; TEMPERATURE MODEL: WZPM2-08 PART NUMBER: WZPM2-08-102.5-M18-S TYPE: PT100 ,Duplex RTD CONNECTION, PROCESS: Thread M18 CONSTRUCTION: S: Retractable type DIAMETER: Probe diameter ϕ 8 MATERIAL: Platinum MOUNT TYPE: Thread POWER SUPPLY: 24 VDC RANGE OF UNITS MEASURED: -50~350°C deg C SENSOR LENGTH: 102.5 mm TEMPERATURE RANGE: -50~350°C deg C MANUFACTUER: DONGFANG YOYIK(DEYANG)ENGINEERING CO., LTD APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Thermal Response Time: τ 0.5<90s		1.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
76	34503200	Temperature Sensor (RTD); PT100 ,Duplex RTD; - 50~350°C deg C; - 50~350°C deg C	CAI	SENSOR; TEMPERATURE MODEL: WZPM2-08 PART NUMBER: WZPM2-08-40-M18-S TYPE: PT100 ,Duplex RTD CONNECTION, PROCESS: Thread M18 CONSTRUCTION: S: Retractable type DIAMETER: Probe diameter ϕ 8 MATERIAL: Platinum MOUNT TYPE: Thread POWER SUPPLY: 24 VDC RANGE OF UNITS MEASURED: -50~350°C deg C SENSOR LENGTH: 40 TEMPERATURE RANGE: -50~350°C deg C MANUFACTUER: DONGFANG YOYIK(DEYANG)ENGINEERING CO., LTD APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Thermal Response Time: τ 0.5<90s		1.00
77	34503057	Nhiệt độ gói bơm tăng áp	CAI	SENSOR; TEMPERATURE MODEL: WZPM2-08 PART NUMBER: WZPM2-08-44-M18-S TYPE: PT100 ,Duplex RTD CONNECTION, PROCESS: Thread M18 CONSTRUCTION: S: Retractable type DIAMETER: Probe diameter ϕ 8 MATERIAL: Platinum MOUNT TYPE: Thread POWER SUPPLY: 24 VDC RANGE OF UNITS MEASURED: -50~350°C deg C SENSOR LENGTH: 44 mm TEMPERATURE RANGE: -50~350°C deg C MANUFACTUER: DONGFANG YOYIK(DEYANG)ENGINEERING CO., LTD APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Thermal Response Time: τ 0.5<90s		1.00
78	34503094	Temperature Sensor; PT100 ,Duplex RTD; 0-180 deg C	CAI	SENSOR; TEMPERATURE MODEL: WZPM2-06 PART NUMBER: WZPM2-06-26 TYPE: PT100 ,Duplex RTD DIAMETER: probe ϕ 6mm mm LENGTH: 3.5 m MATERIAL: Platinum MOUNT TYPE: Thread POWER SUPPLY: 24 VDC RANGE OF UNITS MEASURED: 0-180 deg C SENSOR LENGTH: 26 mm MANUFACTUER: DONGFANG YOYIK(DEYANG)ENGINEERING CO., LTD APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Temperature shield: PT100, Armored platinum resistance, Dual, Four-wire, with full set accessories, probe ϕ 6mm, insert depth L=26mm, lead 3.5m		2.00
79	34503224	Temperature Sensor; PT100; 0-180 deg C	CAI	SENSOR; TEMPERATURE MODEL: WZPM2-06 PART NUMBER: WZPM2-06-24 TYPE: PT100 DIAMETER: probe ϕ 6mm mm LENGTH: 3.5 m MATERIAL: Platinum POWER SUPPLY: 24 VDC RANGE OF UNITS MEASURED: 0-180 deg C SENSOR LENGTH: 24 mm MANUFACTUER: DONGFANG YOYIK(DEYANG)ENGINEERING CO., LTD APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Shaft bearing temperature No.2: PT100, Armored platinum resistance, Dual, Four-wire, with full set accessories, probe ϕ 6mm, insert depth L=24mm, lead 3.5m		2.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
80	34503093	Temperature Sensor; PT100; 0-180 deg C	CAI	SENSOR; TEMPERATURE MODEL: WZPM2-06 PART NUMBER: WZPM2-06-30 TYPE: PT100 LENGTH: 3.5 m MATERIAL: Platinum POWER SUPPLY: 24 VDC RANGE OF UNITS MEASURED: 0-180 deg C SENSOR LENGTH: insert depth L=30mm MANUFACTUER: DONGFANG YOYIK(DEYANG)ENGINEERING CO., LTD APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Shaft bearing temperature No.2: PT100, Armored platinum resistance, Dual, Four-wire, with full set accessories, probe Ø6mm, insert depth L=30mm, lead 3.5m		2.00
81	34503053	Temperature of bearing B1 to B9 Metal, Working Oil.; 2x PT 100 three-wire	CAI	SENSOR; TEMPERATURE MODEL: TS-24I92-35-P23-800-6/8-A2 PART NUMBER: N/A TYPE: 2x PT 100 three-wire CONNECTION, PROCESS: G 1/2 M20x1,5 DIAMETER: D=5.8mm LENGTH: L=50mm POWER SUPPLY: 24 VDC RANGE OF UNITS MEASURED: -50 to 200 deg C MANUFACTUER: Tempsens APPLICATION: Temperature of bearing B1 to B9 Metal, Working Oil..		2.00
82	34505004	Độ rung gối trục bơm tăng áp; VELOMITOR	CAI	SENSOR; VIBRATION MODEL: 330500 PART NUMBER: 330500-A02-B01 TYPE: Velomitor Piezo-velocity Sensor ACCURACY: ±5% CERTIFICATES: EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU,.. FREQUENCY RESPONSE: 4.5 Hz to 5 kHz (270 cpm to 300 kcpm) ±3.0 dB. 6.0 Hz to 2.5 kHz (360 cpm to 150 kcpm) ±0.9 dB. LENGTH: 305 metres (1,000 feet) of cable LINEAR VELOCITY: 1270 mm/s (50 in/s) peak MATERIAL: 316L stainless steel OUTPUT TYPE: -12 ±3.0 VDC, over temperature referenced to Pin A POWER SUPPLY: 24 VDC RANGE: 1270 mm/s (50 in/s) peak. SENSITIVITY: 3.94mV/mm/s (100 mV/in/s) ±5% MANUFACTUER: Bently Nevada APPLICATION: Booster Feed Water Pump ADDITIONAL INFORMATION: Weight 142 grams (5.0 oz), typical, Diameter 25.3 mm (0.995 in).	330500- 02-01	2.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
83	38072005	Dây mở rộng độ rung gối trục bơm tăng áp; 330535-15-01	CAI	SENSOR; PROXIMITY MODEL: 330535 PART NUMBER: 330535-15-01 TYPE: 22 AWG, double-shielded cable CONNECTION: 2-pin Mil-C-5015 receptacle, hermetically-sealed, 304 stainless steel shell ARMOUR: double-shielded LENGTH: 4.5 m POWER SUPPLY: -24 VDC RANGE: 635 mm/s (25 in/s) peak below 680 Hz. 2940 m/s² (300 g) peak above 680 Hz. Vibration at frequencies above 2 kHz decreases this range. CERTIFICATES: EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU VOLTAGE RATING: -24 VDC LINEAR VELOCITY: ±2% to 152 mm/s (6 in/s) peak OUTPUT: -12 ±2.0 VDC MATERIAL: Copper, Case 300 series stainless steel FREQUENCY RESPONSE: 15 to 2000 Hz (900 to 120,000 cpm) ± 3.0 dB; 20 to 1000 Hz (1,200 to 60,000 cpm) ± 0.9 dB ACCURACY: ±5% MANUFACTURER: Bently Nevada APPLICATION: Feed Water Pump		2.00
84	34505002	Độ rung bơm cấp tuabin P/N:330104-00-02-10-02-00	CAI	SENSOR; VIBRATION MODEL: 3300 XL PART NUMBER: 330104-00-02-10-02-00 TYPE: 8 mm Proximity Probe ACCURACY: ± 5% LENGTH: 1 m LINEAR VELOCITY: 7.87 V/mm MATERIAL: Gold-plated brass or goldplated beryllium copper MOUNTING: M10 x 1 thread OUTPUT TYPE: 7.87 V/mm POWER SUPPLY: -24 VDC PROXIMITY DISPLACEMENT RANGE: 0.25 to 2.3 mm mm RANGE: -1 to -17 Vdc VDC SENSITIVITY: Less than 2 mV change in output voltage per volt change in input voltage SIZE: 8 mm MANUFACTURER: Bently Nevada APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Unthreaded Length Option: 0mm, Overall Case Length Option: 20mm	P/N:330104-00-02-10-02-00	2.00
85	34427112	Proximity Transducer Extension cable; 8 mm Proximity Probe; 0.25 to 2.3 mm mm	CAI	SENSOR; PROXIMITY MODEL: 3300 XL PART NUMBER: 330130-040-01-00 TYPE: 8 mm Proximity Probe CONNECTION: 7.24 mm (0.285 in) maximum diameter, Miniature male/female coaxial connector ARMOUR: Armored cable LENGTH: 4.0 m POWER SUPPLY: -24 VDC RANGE: 0.25 to 2.3 mm mm MATERIAL: Copper MANUFACTURER: Bently Nevada/USA APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: FEP or PFA coated armor	3300	2.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
86	34505001	ECC bơm cấp tuabin P/N:330104-00-06-10-02-00	CAI	SENSOR; VIBRATION MODEL: 3300 XL PART NUMBER: 330104-00-06-10-02-00 TYPE: 8 mm Proximity Probe ACCURACY: $\pm 5\%$ LENGTH: 1.0 m LINEAR VELOCITY: 7.87 V/mm MATERIAL: Gold-plated brass or goldplated beryllium copper MOUNTING: M10 x 1 thread OUTPUT TYPE: 7.87 V/mm POWER SUPPLY: -24 VDC PROXIMITY DISPLACEMENT RANGE: 0.25 to 2.3 mm mm RANGE: -1 to -17 Vdc VDC SENSITIVITY: Less than 2 mV change in output voltage per volt change in input voltage SIZE: 8 mm MANUFACTUER: Bently Nevada APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: with armor, Miniature coaxial ClickLoc connector, standard cable, Unthreaded Length Option: 0mm, Overall Case Length Option: 60mm		1.00
87	34481025	Proximito Sensor Amplifier; 330180-50-00; 0 - 0.34 mm/s	CAI	TRANSDUCER; PROXIMITY MODEL: 3300 XL PART NUMBER: 330180-50-00 TYPE: 330180-50-00 POWER SUPPLY: -24 VDC OUTPUT, SIGNAL: -1 to -17 Vdc VDC ACCURACY: $\pm 5\%$ RANGE OF UNITS MEASURED: 0 - 0.34 mm/s OUTPUT AMPS: 4-20 mA CONNECTION: Miniature female coaxial connector, 7.24 mm (0.285 in) maximum outside diameter "D" MANUFACTURER: Bently Nevada APPLICATION: Feed Water Pump		2.00
88	34505003	Độ rung bơm cấp điện	CAI	SENSOR; VIBRATION MODEL: 3300 XL PART NUMBER: 330103-00-16-10-02-00 TYPE: 8 mm Proximity Probe ACCURACY: $\pm 5\%$ LENGTH: 1.0 m LINEAR VELOCITY: 7.87 V/mm MATERIAL: Gold-plated brass or goldplated beryllium copper MOUNTING: M10 x 1 thread OUTPUT TYPE: 7.87 V/mm POWER SUPPLY: -24 VDC PROXIMITY DISPLACEMENT RANGE: 0.25 to 2.3 mm mm RANGE: -1 to -17 Vdc VDC SENSITIVITY: Less than 2 mV change in output voltage per volt change in input voltage SIZE: 8 mm MANUFACTUER: Bently Nevada APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: without armor, Miniature coaxial ClickLoc connector, standard cable		1.00
89	34483004	Bộ amplifier bơm cấp điện	CAI	TRANSDUCER; VIBRATION MODEL: 3300 XL PART NUMBER: 330180-90-00 TYPE: 3300 XL Proximito Sensor POWER SUPPLY: -24 VDC CURRENT: 4-20 mA OUTPUT, SIGNAL: 7.87 V/mm OUTPUT SIGNAL: 7.87 V/mm OUTPUT AMPS: 4-20 mA MOUNTING: panel mount CONNECTION: Miniature female coaxial connector, 7.24 mm (0.285 in) maximum outside diameter "D" MANUFACTURER: Bently Nevada APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Total Length and Mounting Option: 9.0 meters (29.5 feet) system length, panel mount		1.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
90	34505016	Magnetic Rotation Speed Sensor tachometer pickup probe; Rotary Speed QBJ-CS-2-2; 0-20000 pulses/ rpm	CAI	SENSOR; VIBRATION MODEL: QBJ-CS-2-2 PART NUMBER: N/A TYPE: Rotary Speed QBJ-CS-2-2 ACCURACY: ± 1 pulse/second LENGTH: 2500 mm OUTPUT: open collector output POWER SUPPLY: 12 - 24 VDC RANGE: 0-20000 pulses/ rpm MANUFACTUER: DY Electronic Instrument Co. Ltd Jiangyin No.3 Electronic Instrument Plant of Jiangsu Province APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: 10015056 (L65mm). M18x1 Cable Length: 2500mm	QBJ-CS-2-2	1.00
91	39514001	Bộ hiển thị tại chỗ bơm cấp điện; QBJ-3C2/g	BO	CONTROLLER; SPEED MODEL: QBJ PART NUMBER: Y1106005 TYPE: QBJ-3C2/g BRAND NAME: Jiangyin No.3 Electronic Instrument Plant DIMENSION: 154 x 78 x 260 mm FREQUENCY: 50 Hz OPERATING VOLTAGE: AC 220V $\pm 10\%$ OUTPUT CURRENT: 4 ~ 20 mA PHASE: 1 POWER SUPPLY: AC220V + 10%, 50Hz RANGE: 300 ~ 10.000 rpm MANUFACTUER: Jiangyin No.3 Electronic Instrument Plant of Jiangsu Province APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Device operating temperature: -10°C to +50°C		1.00
92	34481322	Cụm đo tốc độ bơm cấp TBFP : "Speed sensor PR 9376/010-011"	CAI	SENSOR; SPEED MODEL: PR 9376 PART NUMBER: 9376/010-011 TYPE: Hall Effect Speed/ Proximity Sensor FREQUENCY RANGE: Max 12 kHz (720,000 cpm) HOUSING ENCLOSURE: IP67 MATERIAL: Sensor – Stainless steel; Cable – PTFE OUTPUT: 1 AC cycle per revolution/gear tooth OUTPUT TYPE: High >10 V / Low <1V POWER SUPPLY: 10 to 30 VDC @ max. 25mA VDC RANGE: Output Voltage (12 VDC at 100 Kload) High >10 V / Low <1V TEMPERATURE, OPERATING: -25 to 100°C deg C MANUFACTUER: Emerson APPLICATION: Feed Water Pump		1.00
93	33422046	Switch áp suất dầu bôi trơn bơm cấp điện	CAI	SWITCH; PRESSURE MODEL: 44V1-K45-N4-C1A PART NUMBER: N/A TYPE: Dual Hi-Lo Pressure Switches PRESSURE RANGE: 4 to 75 psi CONNECTION, PROCESS: 1/4 OR 1/2 NPT(M) PROCESS CONNECTION OPTIONAL CONNECTION,ELECTRICAL: 3/4" NPT(F) Electrical Connection MATERIAL: Alloy 356 copper-free aluminum HOUSING ENCLOSURE: Alloy 356 copper-free aluminum POWER SUPPLY: 250VAC, 15A RANGE, INPUT SIGNAL: 4 to 75 psi TEMPERATURE RATING: -34 to 80 deg C BODY MATERIAL: Alloy 356 copper-free aluminum ENCLOSURE: IP65 MANUFACTURER: SOR APPLICATION: Feed Water Pump		1.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
94	33422047	Switch áp suất dầu bôi trơn bơm cấp điện	CAI	SWITCH; PRESSURE MODEL: 101RN-K3-N4-C1A-X PART NUMBER: N/A TYPE: Differential Pressure Switches PRESSURE RANGE: 3 to 30 psid CONNECTION, PROCESS: 1/4 NPTF HI SIDE PROCESS CONNECTION CONNECTION,ELECTRICAL: 3/4" NPT(F)-Right MATERIAL: Aluminum HOUSING ENCLOSURE: Aluminum POWER SUPPLY: 250 VAC, 15 amps RANGE, INPUT SIGNAL: 3 to 30 psid TEMPERATURE RATING: -34 to 80 deg C BODY MATERIAL: Aluminum ENCLOSURE: IP65 MANUFACTURER: SOR APPLICATION: Feed Water Pump		1.00
95	33422045	Pressure Switch	CAI	SWITCH; PRESSURE MODEL: 9AG-EF45-N1-F1A PART NUMBER: N/A TYPE: Mini-Hermet Pressure Switches CONNECTION, PROCESS: 1/4" NPT(F) CONNECTION,ELECTRICAL: 1/2" NPT(M) Electrical Connection MATERIAL: Copper-free aluminum RANGE, INPUT SIGNAL: 200 to 1750 psi TEMPERATURE RATING: -40 to 75°C deg C MANUFACTURER: SOR APPLICATION: Feed Water Pump		1.00
96	34468016	Level switch; Level Switch; 4 -M8 Screws evenly spaced	CAI	SWITCH; LEVEL MODEL: YKJD PART NUMBER: YKJD 220-BH-456-365-135 TYPE: Level Switch POWER SUPPLY: 220 VDC CONNECTION, PROCESS: 4 -M8 Screws evenly spaced TEMPERATURE, OPERATING: -20 to 100 deg C LENGTH: L1: 456, L2: 365, L3: 135 mm MANUFACTURER: Wenzhou Nanlong		1.00
97	51335128	Solenoid Valve; 4WE5N-6.0/AW220-50NZ4V; 6	CAI	VALVE; SOLENOID TYPE: 4WE5N-6.0/AW220-50NZ4V SIZE: 6 AMPS: 0.25 A TEMPERATURE RATING: -30-80 deg C NOMINAL SIZE: DN05 mm WATTS: 55 VA VOLTS: 220 VAC SEAL MATERIAL: Cast iron valve body,stainless steel valve core MATERIAL: Cast iron valve body,stainless steel valve core END STYLE: N/A COIL TYPE: AC COIL APPLICATION: Turbine feed pump hydraulic oil system ADDITIONAL INFORMATION: Solenoid directional valve, high pressure resistance, stable operation in hydraulic system		2.00
98	51335096	VALVE SOLENOID; 4WE6D62/EG220N9K4/V	CAI	VALVE; SOLENOID TYPE: 4WE6D62/EG220N9K4/V SIZE: N/A AMPS: 1 A TEMPERATURE RATING: -30 to +50 deg C ENCLOSURE: IP65 NOMINAL SIZE: 6 WATTS: 220 VA VOLTS: 220 VAC SEAL MATERIAL: FKM-seals MATERIAL: R900561274 END STYLE: 1/2" NPT COIL TYPE: 220 VAC APPLICATION: MSV VALVE ADDITIONAL INFORMATION: Without plug-in connector with component plug DIN EN 175 301-803	R901008688	1.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
99	51343009	Servo valve G761-3033B; S63JOGA4VPL; 04	CAI	VALVE; SERVO TYPE: S63JOGA4VPL SIZE: 04 APPLICATION: Feed Water Pump PRESSURE RATING: 4500 psi POWER RATING: 0.128 W MATERIAL: Aluminium body ADDITIONAL INFORMATION: S/N: 14920 P: 4500Psi -42.80 - +37.20mA MANUFACTURE: MOOG		1.00
100	34915006	LINEAR VARIABLE DIFFERENTIAL TRANSFORMER; LS-200TU	BO	FEEDBACK MODEL: LS-Series PART NUMBER: No. FA1E0271 TYPE: LS-200TU SIZE: 200 mm POWER SUPPLY: 5Vrms, 3kHz, sine wave current capacity 50mA or more MANUFACTURER: SHINIKAWA APPLICATION: LCV VALVE ADDITIONAL INFORMATION: Excitation 3kHz,5 to 20Vrms, Coil Impedance 600Ω±100Ω(3kHz)	LS-200TU	1.00
101	34911003	Electro-Pneumatic Positioner; for 4 ... 20 mA two-wire technology	CAI	POSITIONER; PNEUMATIC MODEL: TZIDC PART NUMBER: V18345-1010221001 TYPE: for 4 ... 20 mA two-wire technology RANGE: 0 ... 6 bar (0 ... 90 psi) bar CONNECTION: Pipe: Thread 1/4-18 NPT INPUT: Nominal range 4 ... 20 mA MANUFACTURER: ABB APPLICATION: ASH SYSTEM		2.00
102	51335054	Pneumatic recirculation valve; Solenoid 225B- 121CAAA; 45.2 x 88.6 x 99.2 mm	CAI	VALVE; SOLENOID TYPE: Solenoid 225B-121CAAA SIZE: 45.2 x 88.6 x 99.2 mm AMPS: 0.0625 A NOMINAL SIZE: 1/4" NPTF WATTS: 15,14 W VOLTS: 240,220 V SEAL MATERIAL: B5-6001 MATERIAL: N/A END STYLE: 1/4" NPTF END CONNECTION PREPARATION: Conduit 1/2" NPS COIL TYPE: 240 VAC ADDITIONAL INFORMATION: 150 Psi,	225B- 121CAAA	2.00
103	51335096	VALVE SOLENOID; 4WE6D62/EG220N9K 4/V	CAI	VALVE; SOLENOID TYPE: 4WE6D62/EG220N9K4/V SIZE: N/A AMPS: 1 A TEMPERATURE RATING: -30 to +50 deg C ENCLOSURE: IP65 NOMINAL SIZE: 6 WATTS: 220 VA VOLTS: 220 VAC SEAL MATERIAL: FKM-seals MATERIAL: R900561274 END STYLE: 1/2" NPT COIL TYPE: 220 VAC APPLICATION: MSV VALVE ADDITIONAL INFORMATION: Without plug-in connector with component plug DIN EN 175 301-803	R901008688	1.00
104	35691220	696 3500/15 3500 Power Supply Consists of: + AC power supply module	SET	POWER SUPPLY MODEL: 3500/15 PART NUMBER: 3500/15-05-05-00 TYPE: Legacy High Voltage AC Power Input Module POWER RATING: 175-274VAC/ 2,3A RATING,VOLTAGE: 175-274 VAC MANUFACTUER: Bently Nevada APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Fuse: 250V, 6,25A		2.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
105	38304013	Module giao tiếp; 3500/22M	BO	PROGRAMMER; MODULE MODEL: 3500/22M PART NUMBER: N/A TYPE: Main Module VOLTAGE RATING: 24 VDC BRAND NAME: Bently Nevada MOUNT TYPE: Rack Type APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Dimensions: 241.3 mm x 24.4 mm x 241.8 mm, Operating Temperature -30°C to +65°C		1.00
106	38304014	Module I/O; 10 Base-T/100 Base TX (copper)	BO	PROGRAMMER; MODULE MODEL: 10 Base-T/100 Base TX (copper) PART NUMBER: 146031-1 TYPE: Ethernet I/O Module VOLTAGE RATING: 24 VDC BRAND NAME: Bently Nevada MOUNT TYPE: Rack Type APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Consumption: 10.5 Watts, 10Base-T or 100Base-TX Ethernet, autosensing		1.00
107	39510005	Keyphasor Module; 3500/25; Enhanced Keyphasor Module	SET	ANALYZER MODEL: 3500/25 PART NUMBER: PWA 149369-01N TYPE: Enhanced Keyphasor Module FREQUENCY RATING: 0.017 to 20 kHz kHz INPUT: Each Keyphasor Module accepts up to two transducer signals from proximity probe transducers or magnetic pickups. The input signal range is +0.8 V to -21.0 V (NonIsolated I/O modules) or +5V to -11V (Isolated I/O modules). OUTPUT: 504 Ω maximum buffered output impedance. POWER SUPPLY: 3.2 W TEMPERATURE RATING: -30°C to +65°C deg C VOLTAGE RATING: +0.8 V to -21.0 V V MANUFACTUER: Bently Nevada APPLICATION: Feed Water Pump		1.00
108	39510024	Enhanced Keyphasor*Module; 3500/25; Keyphasor I/O Module (Internal Terminations)	SET	ANALYZER MODEL: 3500/25 PART NUMBER: 125800-01 TYPE: Keyphasor I/O Module (Internal Terminations) FREQUENCY RATING: Input range of 1 to 1,200,000 cpm (0.017 to 20 kHz INPUT: Input range of 1 to 1,200,000 cpm (0.017 to 20 kHz POWER SUPPLY: 3.2 W SIZE: 241.3 mm x 24.4 mm x 103.1 mm TEMPERATURE RATING: -30 to +65 deg C MANUFACTUER: Bently Nevada		1.00
109	39510023	Proximitor Seismic Monitor; 3500/42M; PWA 176449-02V; Monitor Module (Main Board); Consists PN: 176449-02 3500/42M Prox/SEIS Monitor; 128240-01 SEISMO I/O module w EXT TERM; 128015-08 Prox/Velom ET Block - Term; 128710-01 Recorder External Termination Block	SET	ANALYZER MODEL: 3500/42M PART NUMBER: PWA 176449-02V TYPE: Monitor Module (Main Board) ACCESSORIES: None ACCESSORIES CONNECTION, PROCESS: Rack Type CONNECTION,ELECTRICAL: Rack Type CONSTRUCTION: Vibration CURRENT RATING: +4 to +20 mA mA DETECTION METHOD: from proximity and seismic transducers EQUIPMENT/PACKAGE: N/A EXPLOSION PROOF: None EXPLOSION PROOF FREQUENCY RATING: 10 to 30,000 Hz Hz HOUSING ENCLOSURE: N/A INPUT: Accepts from 1 to 4 proximity, velocity or acceleration transducer signals MATERIAL: Case: Aluminium OUTPUT: 550 Ω Ohm POWER SUPPLY: 7.7 W PRESSURE RATING: None Pressure RANGE: +4 to +20 mA RANGE, INPUT SIGNAL: Accepts from 1 to 4 proximity, velocity or acceleration transducer signals SIZE: 241.3 mm x 24.4 mm x 241.8 mm mm TEMPERATURE RATING: -30°C to +65°C deg C VOLTAGE RATING: 0 to +12 Vdc range across load MANUFACTUER: Bently Nevada		3.00

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
110	38304015	Module I/O; 128229-01	BO	PROGRAMMER; MODULE MODEL: 3500-42M PART NUMBER: 128229-01 TYPE: Prox/Seismic I/O Module with internal terminations VOLTAGE RATING: 0 to +12 VDC BRAND NAME: Bently Nevada MOUNT TYPE: Rack Type APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Signal: Accepts from 1 to 4 proximity, velocity or acceleration transducer signals, Power consumption: 7.7 watts, typical		3.00
111	38304031	Module Tachometer; 3500/50; Monitor Module (Main Board)	CAI	PROGRAMMER; MODULE MODEL: 3500/50 PART NUMBER: PWA 133388-02R TYPE: Monitor Module (Main Board) VOLTAGE RATING: +10.0 V to -24.0 V VDC BRAND NAME: Bently Nevada MOUNT TYPE: Rack Type APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: Recorder: +4 to +20 mA		1.00
112	38304035	Tachometer Module; 3500/50M; I/O Module with Internal Terminations	CAI	PROGRAMMER; MODULE MODEL: 3500/50M PART NUMBER: 133442-01 TYPE: I/O Module with Internal Terminations VOLTAGE RATING: +10.0 V to -24.0 V VDC BRAND NAME: Bently Nevada MOUNT TYPE: Rack type APPLICATION: Feed Water Pump ADDITIONAL INFORMATION: I/O Module, Internal Terminations, Module I/O 133442-01, 241.3 mm x 24.4 mm x 163.1 mm		1.00
113	38304016	Module Overspeed; 3500/53	BO	PROGRAMMER; MODULE MODEL: 3500/53 PART NUMBER: PWA 133388-01P TYPE: 3500/53 Overspeed Detection Module VOLTAGE RATING: -24 Vdc, 40 mA maximum. BRAND NAME: Bently Nevada MOUNT TYPE: Mounted to rack frame APPLICATION: EHC SYSTEM ADDITIONAL INFORMATION: Operating Temperature: -30 °C to +65 °C , Recorder: +4 to +20 mA		2.00
114	38304017	Module I/O; 133396-01	BO	PROGRAMMER; MODULE MODEL: 3500/53 PART NUMBER: 133396-01 TYPE: Overspeed Detection I/O Module VOLTAGE RATING: -24 Vdc, 40 mA maximum VDC BRAND NAME: Bently Nevada MOUNT TYPE: Mounted to rack frame APPLICATION: EHC SYSTEM ADDITIONAL INFORMATION: Power Consumption: 8.0 watts, Recorder: +4 to +20 mA, Output Impedance: 550 Ω		2.00
115	35090142	Relay module; 2 SPDT và 1 DPDT; 3500/33; 250 VAC; 30 VDC; 10mA to 5A A; Max 5A A	CAI	RELAY; PROTECTION OTHER TYPE: 2 SPDT và 1 DPDT MODEL/PART NUMBER: 3500/33 VOLTAGE RATING: 250 VAC VOLTAGE CONTROL: 30 VDC CURRENT RATING: 10mA to 5A A CURRENT FRAME/TRIP: Max 5A A MANUFACTURER: Bently Nevada made in USA SUPPLY CODE: PWA 149986-01D SUPPLIER: Bently Nevada DESCRIPTION: The 3500/33 16-Channel Relay Module is a full-height module that provides 16 relay outputs. You can place any number of 16-channel relay modules in any of the slots to the right of the Transient Data Interface (TDI) Module BREAKING CAPACITY: 600 VA ADDITIONAL INFORMATION: Relay module: TX/RX contact rating : power DC 120 W, AC 600 VA; min current 10mA, max current 5A; max voltage 30VDC/230VAC; life 100000 lần ;		1

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
116	38304029	Module I/O; 149992-01	CAI	PROGRAMMER; MODULE MODEL: 149992-01 PART NUMBER: N/A TYPE: 3500/33 16-Channel Relay Module VOLTAGE RATING: 5-60 VDC BRAND NAME: Bently Nevada APPLICATION: EHC SYSTEM ADDITIONAL INFORMATION: Power Consumption: 5W, Single-pole Double-throw (SPDT), 241 mm x 24.4 mm x 242 mm		1
117	39414056	Comm gateway; 3500/92; 3500/92 Communication Gateway	CAI	COMMUNICATIONS HARDWARE; MODEMS MODEL: 3500/92 PART NUMBER: 3500/92 TYPE: 3500/92 Communication Gateway POWER SUPPLY: 5 W SIZE: 241 mm x 24.4 mm x 242 mm mm MANUFACTUER: Bently Nevada APPLICATION: EHC SYSTEM ADDITIONAL INFORMATION: led OK, TX/RX; protocol MODBUS AEG PI- MBUS-300; temp 0 - 65 deg C; modbus RS232/242; RS485; dimension main board 241 x 24.4 x 242 mm		1
118	35691059	Bộ nguồn ngoài; QUINT-PS/1AC/24DC/3.5	CAI	POWER SUPPLY MODEL: QUINT-PS PART NUMBER: 2866747 TYPE: QUINT-PS/1AC/24DC/3.5 CURRENT: Input: 100-240V~/50-60Hz/1.6-0.7A CURRENT RATING: 3.5 A FREQUENCY RATING: 50-60Hz Hz PHASE: 1 POWER RATING: 168 W RATING,VOLTAGE: Input: 100-240V~, Output: 24VDC TEMPERATURE RANGE: -25 °C ... 70 °C deg C VOLTAGE RATING: Input: 100-240V~, Output: 24VDC MANUFACTUER: PhoenixContact ADDITIONAL INFORMATION: Input: 100-240V~/50-60Hz/1.6-0.7A Output: 24VDC/3.5A (Boost 4A; 15A/12ms)		1
119	35050010	Role; No.29 61 192; 24 VDC	CAI	RELAY; POWER TYPE: REL-MR- 24DC/21-21 MODEL/PART NUMBER: No.29 61 192 VOLTAGE RATING: 250 V AC/DC VDC VOLTAGE CONTROL: 24 VDC CURRENT RATING: 17 mA CURRENT FRAME/TRIP: 25 A (20 ms) A MANUFACTURER: PhoenixContact SUPPLY CODE: 2961192 SUPPLIER: PhoenixContact BREAKING CAPACITY: 2000 VA (250 V AC)		5
120	34495006	Guided Radar (TDR) Level Meter; KROHNE OPTIFLEX 1300 C SN F114200000650030005	CAI	SENSOR; LEVEL MODEL: OPTIFLEX 1300 C PART NUMBER: F200000000370379 TYPE: KROHNE OPTIFLEX 1300 C SN F114200000650030005 ACCURACY: Liquids: ±3 mm / ±0.12", when distance < 10 m / 33 ft; ±0.03% of measured distance, when distance > 10 m / 33 ft CERTIFICATES: EX, IEC, FM APPROVED,... CONNECTION: 1/2NPT CONNECTION, PROCESS: 1/2NPT MATERIAL: Stainless steel (1.4404 / 316L) RANGE: N/A POWER SUPPLY: 24 VDC MANUFACTURER: KROHNE APPLICATION: Condenser level sensor ADDITIONAL INFORMATION: 2Wire/4...20mA		1

STT	Mã VT	Tên vật tư	ĐVT	Quy cách / Đặc tính kỹ thuật / NSX	Mã đặt hàng	Số lượng
121	34503201	Temperature sensor (RTD); PT100; 0 - 100 deg C; 0 - 100 deg C	CAI	SENSOR; TEMPERATURE MODEL: WZPM-001 PART NUMBER: 183227-017 TYPE: PT100 ACCURACY: Class A CONNECTION, PROCESS: 3 wires LENGTH: 2000 mm POWER SUPPLY: 24V RANGE OF UNITS MEASURED: 0 - 100 deg C TEMPERATURE RANGE: 0 - 100 deg C MANUFACTURER: LWD		1
122	34427096	PROXIMITOR SENSOR; 3300 XL 8MM; 330180-91-00; The 3300 XL 8 mm Proximity Transducer System; 0.25 to 2.3 mm; S/N: 14F01W05	PCS	SENSOR; PROXIMITY MODEL: 3300 XL 8MM PART NUMBER: 330180-91-00 TYPE: The 3300 XL 8 mm Proximity Transducer System EQUIPMENT/PACKAGE: N/A CONNECTION: Miniature female coaxial connector, 7.24 mm ARMOUR: 304 SST with FEP outer jacket LENGTH: 9 m CONNECTION,ELECTRICAL: Coaxial connection (miniature female) POWER SUPPLY: -24 VDC HOUSING ENCLOSURE: N/A SIZE: 8 mm OUTPUT TYPE: VDC RANGE: 0.25 to 2.3 mm FREQUENCY RANGE: (0 to 10 kHz), +0, -3 dB, with up to 305 metres (1000 feet) of field wiring ACCURACY CLASS: ±5% CERTIFICATES: FCC, EMC, RoHS, Maritime SPECIAL REQUIREMENT: N/A VOLTAGE RATING: VDC LINEAR VELOCITY: 7.87 V/mm PROXIMITY DISPLACEMENT RANGE: 0.25 to 2.3 mm WIDTH: 89.4 mm OUTPUT: -1 to -17 VDC MOUNTING: 35mm DIN rail MATERIAL: AISI 304 stainless steel (SST)		3
123	34427097	Proximitor Sensor; 3300 XL 50mm; 330878-91-00; 3300 XL 50 mm Proximity Transducer System; 1.3 to 29.2 mm	PCS	SENSOR; PROXIMITY MODEL: 3300 XL 50mm PART NUMBER: 330878-91-00 TYPE: 3300 XL 50 mm Proximity Transducer System EQUIPMENT/PACKAGE: N/A CONNECTION: Miniature female coaxial connector, 8.0 mm ARMOUR: NONE ARMOUR LENGTH: 9.0 meters (29.5 feet) system length CONNECTION,ELECTRICAL: Coaxial connection (miniature female) POWER SUPPLY: -24 VDC HOUSING ENCLOSURE: N/A SIZE: 50 mm OUTPUT TYPE: VDC RANGE: 1.3 to 29.2 mm FREQUENCY RANGE: 0 to 8 kHz kHz ACCURACY CLASS: ±0.74 mm CERTIFICATES: FCC, EMC, RoHS, Maritime SPECIAL REQUIREMENT: N/A VOLTAGE RATING: -24 VDC LINEAR VELOCITY: 394 mV/mm PROXIMITY DISPLACEMENT RANGE: 1.3 to 29.2 mm WIDTH: 31.7 mm OUTPUT: 0.39V/mm MOUNTING: 35mm DIN rail MATERIAL: AISI 304 stainless steel (SST) INTERFACE TYPE: N/A		1

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124	34427095	PROXIMITOR SENSOR; 3300 XL 11 MM; 330780-91- 00; 3300 XL 11 mm Proximitor Sensor; VDC; -1 to -19 VDC; BENTLY NEVADA	PCS	SENSOR; PROXIMITY MODEL: 3300 XL 11 MM PART NUMBER: 330780-91-00 TYPE: 3300 XL 11 mm Proximitor Sensor EQUIPMENT/PACKAGE: N/A CONNECTION: Miniature female coaxial ARMOUR: NONE ARMOUR LENGTH: 9.0 meters (29.5 feet) system length CONNECTION,ELECTRICAL: Coaxial connection (miniature female) POWER SUPPLY: -24 VDC HOUSING ENCLOSURE: N/A SIZE: 11 mm OUTPUT TYPE: VDC RANGE: -1 to -19 VDC FREQUENCY RANGE: 0 to 8 kHz: +0, -3 dB typical, with up to 305 meters (1000 feet) of field wiring ACCURACY CLASS: ±10% CERTIFICATES: FCC, EMC, RoHS, Maritime SPECIAL REQUIREMENT: N/A VOLTAGE RATING: -24 VDC LINEAR VELOCITY: 3.94 V/mm PROXIMITY DISPLACEMENT RANGE: 0.5 to 4.5 mm WIDTH: 89.4 mm OUTPUT: -1 to -19 VDC MOUNTING: 35mm DIN Rail MATERIAL: AISI 304 stainless steel (SST)		2
125	51339008	Mobile Controls Division; L90LS-02- 059837-02	BO	VALVE; HYDRAULIC TYPE: L90LS-02-059837-02 SIZE: N/A APPLICATION: Hydraulic RATING: Up to 420 bar END STYLE: Threaded Ports / Flange Ports BODY MATERIAL: Cast Iron ADDITIONAL INFORMATION: Manufactory: Parker		1
126	35301004	Curent transformer - HV Turret; XKC460323-A6874; XKC460323-A6874; Use for devices with voltage: 220 kV; 30 VA; 3000/1 A; 1 pha; 50/60 Hz	BO	TRANSFORMER; LOW VOLTAGE CURRENT, ITC = 1A TYPE: XKC460323-A6874 MODEL/PART NUMBER: XKC460323-A6874 RATED VOLTAGE: Use for devices with voltage: 220 kV RATED BURDEN: 30 VA CT RATIO: 3000/1 A PHASE: 1 pha FREQUENCY: 50/60 Hz MANUFACTURER: Zhida China ACCURACY: 5P20 (3x) DIMENSION: N/A		1
127	35301005	3 phase common neutral current transformer; XKC460324-A6874; XKC460324-A6874; Used for neutral of equipment with voltage: 220 kV; 30 VA; One CT is 3000/1; another one 2000/1 A; 1; 50/60 Hz	BO	TRANSFORMER; LOW VOLTAGE CURRENT, ITC = 1A TYPE: XKC460324-A6874 MODEL/PART NUMBER: XKC460324-A6874 RATED VOLTAGE: Used for neutral of equipment with voltage: 220 kV RATED BURDEN: 30 VA CT RATIO: One CT is 3000/1; another one 2000/1 A PHASE: 1 FREQUENCY: 50/60 Hz MANUFACTURER: Zhida China ACCURACY: N/A DIMENSION: attached drawing		1
128	35301007	Neutral Current Transformer (HVN Turret for temperature); XKC460323-A6874; P/N: 22; For devices with voltage: 220 kV; 50 VA; 1807/2 A; 1; 50/60 Hz	BO	TRANSFORMER; LOW VOLTAGE CURRENT, ITC = 1A TYPE: XKC460323-A6874 MODEL/PART NUMBER: P/N: 22 RATED VOLTAGE: For devices with voltage: 220 kV RATED BURDEN: 50 VA CT RATIO: 1807/2 A PHASE: 1 FREQUENCY: 50/60 Hz MANUFACTURER: Zhida china ACCURACY: 1,0 DIMENSION: N/A		1

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129	35090115	Oil current relay of OLTC of transformer T1/T2; URF 25/10; ref: 12-1.25.49.-0704; 250 V; 250 V; AC 0.01 A - max. 6 A. DC 0.01 A - max. 6 A A	CAI	RELAY; PROTECTION OTHER TYPE: URF 25/10 MODEL/PART NUMBER: ref: 12-1.25.49.-0704 VOLTAGE RATING: 250 V VOLTAGE CONTROL: 250 V CURRENT RATING: AC 0.01 A - max. 6 A. DC 0.01 A - max. 6 A A CURRENT FRAME/TRIP: 6 A MANUFACTURER: Made in Germany SUPPLY CODE: 12-1.25.49.-0704 SUPPLIER: EMB Germany BREAKING CAPACITY: Switching capacity: AC max. 1500 VA. DC max. 1250 W ADDITIONAL INFORMATION: IP 56, Activation oil flow rate: 3.00 m/s		3
130	33447008	Limit and Safety Switches; With roller Ø13 mm mm; E100; Metal body / Metal head	CAI	ACCESSORIES; SWITCHES SIZE: With roller Ø13 mm mm TYPE: E100 MATERIAL: Metal body / Metal head PARENT FIGURE/MODEL NUMBER: E10000BM13 APPLICATION: used for OLTC pressure relay ADDITIONAL INFORMATION: Limit and Safety Switches; Model E10000BM13; Bremas/EU		10
131	35690004	Voltage transformer VRQ3n/S2; 10000:√3/110:√3 VAC; VRQ3n/S2; 1 pha; 50 Hz; 110/√3 VAC; 10000/√3 VAC; 30 VA; 14057878; IEC61869-3	SET	TRANSFORMER; VOLTAGE OTHER RATIO: 10000:√3/110:√3 VAC TYPE: VRQ3n/S2 PHASE: 1 pha FREQUENCY: 50 Hz SECONDARY VOLTAGE: 110/√3 VAC PRIMARY VOLTAGE: 10000/√3 VAC ELECTRICAL POWER: 30 VA TEMPERATURE RATING: IEC61869-3 MANUFACTURER: Made in Italy MODEL/PART NUMBER: 14057878 IP: IEC61869-3 ADDITIONAL INFORMATION: Voltage transformer VRQ3n/S2, RATIO 10000:√3/110:√3 (V), 30VA, Made in Italy		3
132	35331001	current transformer ATB 10-B; ATB 10-B; ATB 10; 12 kV; 30/5 (1S1-1S2; 2S1-2S2) VA; 400/1-1 A; 1 pha; 50 Hz	SET	TRANSFORMER; CURRENT:87-14 KV; ITC = 1A : TYPE: ATB 10-B MODEL/PART NUMBER: ATB 10 RATED VOLTAGE: 12 kV RATED BURDEN: 30/5 (1S1-1S2; 2S1-2S2) VA CT RATIO: 400/1-1 A PHASE: 1 pha FREQUENCY: 50 Hz MANUFACTURER: Made in Indonesia SUPPLIER: PT. ESITAS PACIFIC - INDONESIA ACCURACY: 0,5/5P DIMENSION: 335/148/220(±5) - L/W(b)/H(±5) mm ADDITIONAL INFORMATION: current transformer ATB 10-B; 12kV; 400/1-1 (30 VA/5 VA); 0,5/5P; Made in Indonesia		3
133	34274019	Air circuit breaker IZM9; 115 kg; 3200 A; 690 VAC; 3437.85 kW; 3 pha; 4 pole; 12 kV; 100 kA	PCS	BREAKER; AIR OTHER SIZE: 115 kg CURRENT RATING: 3200 A VOLTAGE RATING: 690 VAC POWER RATING: 3437.85 kW PHASE: 3 pha POLE: 4 pole FREQUENCY: 50/60 Hz INDUSTRY STANDARD: IP20, IP54 with protective cover AC/DC: 220Vdc control voltage VDC TYPE: IZM97H4-V32W RATED LIGHTNING IMPULSE WITHSTAND VOTAGE: 12 kV RATED SHORT CIRCUIT BREAKING CURRENT: 100 kA ADDITIONAL INFORMATION: Air circuit breaker IZM97H4-V32W, Eaton Corporation Asia Pacific Headquarter, China		1

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134	35691089	Power supply PWU-SA; TAJ223 (GACP); MEP-TAJ223; 20A (5V)/4.4A(24V)/2.2A(48V); Input 220VAC/VDC; Output S1/S2/S4/S5/S6: 5/5/24/24/48 (VDC)5/24	BO	POWER SUPPLY MODEL: MEP-TAJ223-02T PART NUMBER: K016337 TYPE: MEP-TAJ223 POWER RATING: 20A (5V)/4.4A(24V)/2.2A(48V) RATING,VOLTAGE: Input 220VAC/VDC; Output S1/S2/S4/S5/S6: 5/5/24/24/48 (VDC)5/24 MANUFACTUER: TOACK - Toshiba ADDITIONAL INFORMATION: Power supply PWU-SA; TAJ223 (used for GACP cabinets)Toshiba		1
135	35691087	Power supply master control (AVR/GACP power supply); TAJ240; 500 W; 220 V	BO	POWER SUPPLY MODEL: PWU-SA PART NUMBER: S. No. K015460 TYPE: TAJ240 POWER RATING: 500 W RATING,VOLTAGE: 220 V MANUFACTUER: Toshiba ADDITIONAL INFORMATION: Code: 02T.Power supply master control 500W: PWU-SA; TAJ240		1
Ghi chú: Nhà máy điện Vũng Áng 1 đang sử dụng vật tư/thiết bị của các Nhà sản xuất gốc nêu trên để tạo thuận lợi cho các nhà thầu tham chiếu, nắm bắt được thông tin của vật tư/thiết bị qua đó có phương án chào hàng hóa của Nhà sản xuất gốc hoặc Nhà sản xuất tương đương đáp ứng được yêu cầu HSMT và tương thích với thiết bị/hệ thống hiện hữu						