



ITEM	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION
1	1900 mm	-	DIN RAIL	TS35 DIN RAIL STEEL
2	3902.000 mm	-	DUCT 80W x 80H	CABLE DUCT SLOTTED 80W x 80H
3	1	CLIPSAL	4CC1	CIRCUIT BREAKER ENCLOSURE
4	2	FINDER	55.34.0074 24VDC	4 CO 7 A PLUG-IN 94 SERIES SOCKETS GENERAL PURPOSE RELAYS FOR SOCKET MOUNTING
4.1	1	FINDER	+99.02.9.024	LED & DIODE MODULE
4.2	1	FINDER	9404	BASE FOR 5534 RELAY
5	1	NETEC	18WAYEB	165A 2 x M8 STUDS, 2 SCREWS/TUNNEL, 18 WAY x 16mm2 EARTH/NEUTRAL BAR
6	1	NHP	DTCB6102C	MCB DIN-T6 6KA 1P 2A C CURVE
7	1	NHP	GSF30	GRILLE AND FILTER H318 X W318 X D34MM. 291MMX291MM CUTOUT
8	1	NHP	GSV3001220	FILTER FAN H318 X W318 X D135MM 230V AC 700M3/HR. 291MMX291MM CUTOUT.
9	1	PHOENIX CONTACT	VAL-SEC-T2-3C-350-FM - 2905339	PLUG-IN SURGE ARRESTER, IN ACCORDANCE WITH TYPE 2/CLASS II, FOR 3-PHASE POWER SUPPLY NETWORKS WITH COMBINED PE AND N INSTALLED IN ONE CONDUCTOR
10	1	SCHMERSAL	ZS236-11Z-M20	DOOR OPERATED SWITCH 2 POLE PLUNGER TYPE
11	1	SIEMENS	6SE6400-3TC05-4DD0	MICROMASTER 4 OUTPUT REACTOR 200-480V 3AC 54 A
12	1	SIEMENS	6SL3225-0BE34-5AA0	SINAMICS G120 POWER MODULE PM250 WITH BUILT IN CL. A FILTER
13	1	SIEMENS	6SL3244-0BB13-1FA0	SINAMICS G120 CONTROL UNIT CU240E-2 PN-F E-TYPE SAFETY INTEGRATED
14	1	SIEMENS	6SL3255-0AA00-4JA1	SINAMICS G120 IOP INTELLIGENT OPERATOR PANEL
14.1	1	SIEMENS	6SL3256-0AP00-0JA0	SINAMICS G120 DOOR MOUNTING KIT IP55/ UL TYPE 12 FOR INTELLIGENT OPERATOR PANEL IOP
15	1	SOCOMEc	SSF DN160 3P	FUSE ISOLATOR FUSERBLOCK 160A/00 FRAME SIZE 13 WITH HANDLE
15.1	1	SOCOMEc	1400 1050	SHAFT 500mm LENGTH SUITS SLB 125-630A W/S2 HANDLES
15.2	2	SOCOMEc	3998 3016	TERMINAL SHROUD 3P SUITS VLB 125-200/SSF 100-160
15.3	1	SOCOMEc	3999 0701	AUXILIARY 1NO SUITS SWITCH FUSE SSF 20-1250A
16	1	SPRECHER + SCHUH	D7PMT44PX01S	PUSHBUTTON 22.5MM PLASTIC E-STOP 40MM 1NC SELF MON
16.1	1	SPRECHER + SCHUH	D7-X01	D7 CONTACT BLOCK 1 N/C PANEL MOUNT
16.2	1	SPRECHER + SCHUH	D7A6PR5	PROTECTIVE YELLOW GUARD FOR EMERGENCY STOP OPERATORS 85MM
17	1	STEGO	KTS01141	THERMOSTAT ALARM WITH 1 N/O CONTACT
18	1	THORN	THNBBO108	BIKINI 1 X 8W FLUORO
19	3	WEIDMULLER	0130160000-TW 4 SAK4	SAK SERIES, SEPERATION PLATE, 1.5 MM, BEIGE
20	4	WEIDMULLER	0383560000-EW 35	ACCESSORIES, END BRACKET
21	41	WEIDMULLER	0443660000-SAK 4_35	SAK SERIES, FEED-THROUGH TERMINAL, RATED CROSS-SECTION: 4 MM², SCREW CONNECTION, DIRECT MOUNTING
22	3	WEIDMULLER	0661160000-EK 4_35	SAK SERIES, PE TERMINAL, RATED CROSS-SECTION: 4 MM², SCREW CONNECTION, GREEN / YELLOW, DIRECT MOUNTING
23	6	WEIDMULLER	1029400000	WFF 70_AH BOLT-TYPE SCREW TERMINALS, FEED-THROUGH TERMINAL, RATED CROSS-SECTION: 70 MM², THREADED SUB CONNECTION, DIRECT MOUNTING
24	1	WEIDMULLER	8946940000	IE-TO-RJ45-FJ-B MOUNTING RAIL OUTLET, RJ45, EIA/TIA T568 B, IP20

CONSTRUCTION NOTES	
1. SWITCHBOARD TYPE	FREE STANDING FRONT CONNECTED
2. MATERIAL	2mm MILD STEEL
3. COLOUR EXTERIOR	B41 BLUE BELL
4. LIFTING FACILITY	BASE ONLY
5. CABLE ENTRY/EXIT	TOP
6. GLAND PLATE	ALUMINIUM 6mm 350Wx370H
7. MOUNTING PANS	
COLOUR	WHITE
MATERIAL	3mm MILD STEEL
RHS	381W x 1750H
REAR	605W x 1750H
8. PLINTH	75H x 40H U-CHANNEL
9. LOCK	3 POINT ROD LOCK WITH 7MM SQUARE DRIVE

REFERENCE DOCUMENTS	DOC NO
415V MCC 64 - DC350 DUST COLLECTOR FAN SCHEMATIC DIAGRAM SHT1	083-E-12683
415V MCC 64 - DC350 DUST COLLECTOR FAN SCHEMATIC DIAGRAM SHT 2	083-E-05823
DC350 FAN VVVF DRIVE PANEL GENERAL ARRANGEMENT SHT 2	080-E-13716
CONTRACT NUMBER OR PURCHASE ORDER NUMBER	
REFERENCE DOCUMENTS	
DOC NO	

REVISION				REVISION				REVISION				REVISION					
NO	DATE	DESCRIPTION	DES BY	DRN BY	CHK BY	DES/HSEC	BHPIO	DATE	NO	DATE	DESCRIPTION	DES BY	DRN BY	CHK BY	DES/HSEC	BHPIO	DATE
0	21.02.19	NP VVVF REPLACEMENT - PE1944 APPROVED FOR CONSTRUCTION	SM	DN	DS	AT	AG	27.02.19									

BHQIO TO COMPLETE				BHQIO/REVIEWER TO COMPLETE				DESIGNER/CONTRACTOR TO COMPLETE				
DRAWING STATUS	APPROVAL	SIGNED	DATE	REV	COMPANY	NAME	SIGNED	DATE	COMPANY	NAME	SIGNED	DATE
PRELIMINARY ONLY	_____	_____	_____	_____	_____	_____	_____	_____	I S SYSTEMS	_____	_____	_____
QUOTATION ONLY	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
CONSTRUCTION MAY PROCEED / AS BUILT	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
CONSTRUCTION MAY PROCEED EXCEPT AS NOTED	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
REVISE AND RESUBMIT	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

BHP Billiton Iron Ore Pty Ltd A.B.N. 46 008 700 981

PORT ORE HANDLING - NELSON POINT

PLANT NO. 2 CONTROL BUILDING SUBSTATION

DC350 FAN VVVF DRIVE PANEL

GENERAL ARRANGEMENT SHT1

BHP SCALE _____ **A1** DRG. NO. **080** **E** **13715 / 0**

