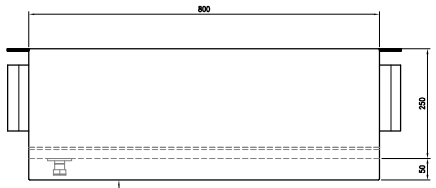
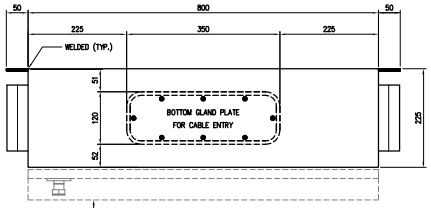
A0

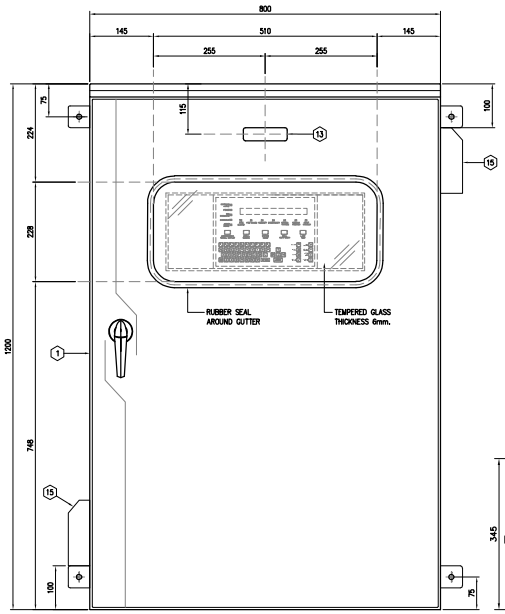
REV	DESCRIPTION	REVISING ZONE	REVISED	CHECKED	APPROVED	DATE



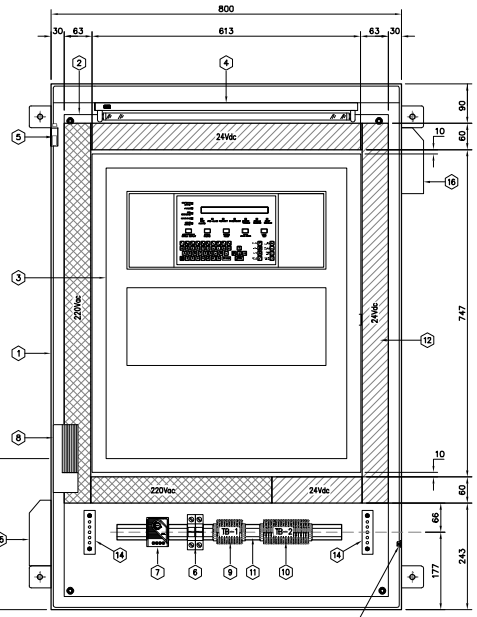
TOP VIEW
(SCALE 1/5)



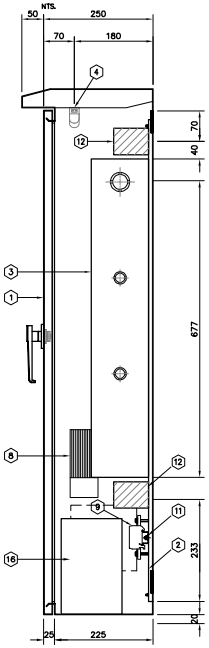
BOTTOM VIEW
(SCALE 1/5)



FRONT VIEW
(SCALE 1/5)



INSIDE VIEW
(WITHOUT COVER)
(SCALE 1/5)



SECTION A-A
(SCALE 1/5)

ENCLOSURE SPECIFICATION

BRAND : GUARDFIRE
DIMENSION : 800x1200x250mm (WxHxD)
MATERIAL : STEEL SHEET
DOOR : SINGLE DOOR WITH TEMPERED GLASS
WEIGHT : APPROX. 85kg.
THICKNESS : 2 mm

CABINET COATING :

CABINET : POWDER COATED (UV PROTECTION)

PROTECTION CLASS — SURFACE COLOR
IP55 — RAL 3020

APPROVED AMBIENT TEMPERATURE
0°C TO +49°C

APPROVED RELATIVE HUMIDITY
<93%

CABLE ENTRY
- BOTTOM SIDE

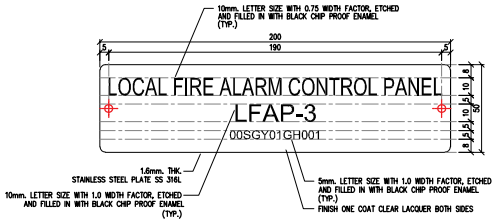
INTERNAL WIRING
- 1.5 Sq.mm. 450/750V PVC INSULATED WIRE
- INSULATION COLOR : BLACK(+), WHITE(-)

BILL OF MATERIALS

ITEM	DESCRIPTIONS	Q'TY
1	STEEL ENCLOSURE 800x1200x250mm(WxHxD)	1
2	MOUNTING PLATE	1
3	NOTIFIER, NFS2-640/E FIRE ALARM CONTROL PANEL COMPLETE WITH ACCESSORIES (SEE DETAIL"B" IN SHT. No. 2/3)	1
4	FLUORESCENT 9W LED-T5, 230V, (P+N+PE) BATTEN TYPE LUMINAIRE	1
5	OMRON, LIMIT SWITCH RATING 5A, 230VAC, 50Hz. (FOR ON/OFF FLUORESCENT LAMP)	1
6	MINIATURE CIRCUIT BREAKER 2P, 10A 230VAC STANDARD DIN RAIL MOUNTED TYPE	1
7	RITTAL, HYGROSTAT(35-95% RH) RAIL MOUNTED TYPE, P/N : SK3118000	1
8	RITTAL, ENCLOSURE HEATER WITHOUT FAN(40-50W), P/N : SK3105.340	1
9	TERMINATION BLOCK TYPE UT-4-MTD PHOENIX P/N : 3046184 (TB-1)	6
10	TERMINATION BLOCK TYPE UT-4-MTD PHOENIX P/N : 3046184 (TB-2)	18
11	DIN RAIL, STEEL GALVANIZED 7.5x35mm(WxH), LENGTH: 2m PHOENIX P/N : NS 35/7,5 PERF 2m	-
12	WIRE DUCT 60x80mm(WxH)	1
13	STAINLESS STEEL PANEL NAME PLATE SEE DETAIL"A"	1
14	EQUIVALENT POTENTIAL GROUND BAR (COPPER), SIZE 200x25x6mm.(LxHxW) INSTALLED ON INSULATION SUPPORT	2
15	VENTILATION LOUVER (WITHOUT FAN)	2

REFERENCE DRAWING :

1. FIRE ALARM SYSTEM SCHEMATIC DRAWING OF LFAP-3, DWG.NO.P6266-2-12101 REV.E



DETAIL "A" : NAMEPLATE DETAIL

LOCAL FIRE ALARM PANELS (LFAP-3)
00SGY01GH001
MOUNTED IN STEEL ENCLOSURE(IP55) LOCATED AT EP ELECTRICAL ROOM

REMARK

1. ADDITIONAL SUPPORT FOR MOUNTING THE DEVISES SHALL BE PROVIDED BY FABRICUTOR.

REV	DATE	DESCRIPTION	BY	CHKD	APPD
E	DEC.23,2020	FOR APPROVAL	T.Aulisporn	S.Chaiard	K.Thanthe
D	OCT.08,2020	FOR APPROVAL	T.Aulisporn	S.Chaiard	K.Thanthe
C	JUN.08,2020	FOR APPROVAL	T.Aulisporn	S.Chaiard	K.Thanthe
B	JANUARY.2020	FOR APPROVAL	T.Aulisporn	S.Chaiard	K.Thanthe
A	JULY.16,2019	FOR APPROVAL	T.Aulisporn	S.Chaiard	K.Thanthe

OWNER
PT.Bhumi Jati Power

PROJECT TITLE
TANJUNG JATI B EXPANSION (JAWA-4)
COAL FIRED STEAM POWER PLANT
2 x 1,000 MW

OWNER'S ENGINEER
PÖYRY

EPC CONTRACTORS
Sumitomo Corporation
PT. Wasa Mitra Engineering
AvantPower Japan Ltd.

PROJECT DRAWING NO.
TJB56-L1-OFF-C-SGY-I-DSD-3727
REV

ORDER
ITEM
TEAM CODE
Drawn
Checked
Approved
Date
Department
HUME PLANT LAYOUT & PIPING ENGINEERING SECTION
PLANT LAYOUT & PIPING DEPARTMENT

WBS Doc. CODE —
Project DWG. No. ES-(XT JB)5,6-32-00-0018 Rev. —
Title
PANEL OUTLINE DRAWING
FOR ESP ELECTRICAL BUILDING

Scale — DWG. No. P6266-2-12201 Rev. E Sheet No. 1/4

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ENGINEERING HEADQUARTERS / PLANT ENGINEERING DIVISION

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CAD SOFTWARE AUTOCAD 2010

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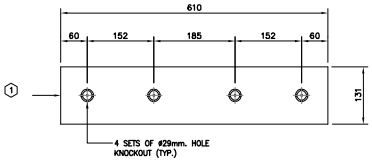
REV	DESCRIPTION	REVISING ZONE	REVISED	CHECKED	APPROVED	DATE

ENCLOSURE SPECIFICATION

BRAND : NOTIFIER
DIMENSION : 610x724x131mm (WxHxD)
MATERIAL : 16-GAUGE(1.59mm.) STEEL
WEIGHT : APPROX. 20kg.

CABINET COATING :
CABINET : MANUFACTURER STD.

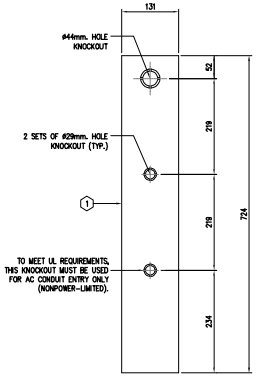
MAIN POWER SUPPLY: 230V AC/50Hz
POWER PACK: 24V 3A
OPERATING VOLTAGE: 24V DC
LOADING CAPACITY: 1750VA
PROTECTION CLASS: IP 20
SURFACE COLOR: MANUFACTURER STRANDARD (RED)
EMERGENCY POWER SUPPLY: BACKUP BATTERY
APPROVED AMBIENT TEMPERATURE: 0°C TO +49°C
APPROVED RELATIVE HUMIDITY: <93%



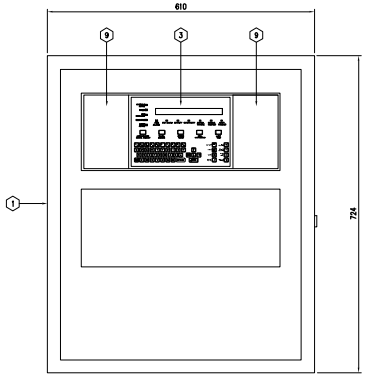
TOP PANEL VIEW
KNOCKOUT LOCATIONS
(SCALE 1/5)

BILL OF MATERIALS		
ITEM	DESCRIPTIONS	Q'TY
1	NOTIFIER, BACKBOX CAB-B4 SERIES, WALL MOUNTED ENCLOSURE, RED COLOR CONSIST WITH - DR-B4R (DOOR ASSEMBLY, TWO TIERS, RED) - SBB-B4R (BACKBOX ASSEMBLY, TWO TIERS, RED)	1
2	NOTIFIER, CPU2-640E	1
3	NOTIFIER, KDM-R2, KEYBOARD DISPLAY MODULE, 80 CHARACTER DISPLAY	1
4	NOTIFIER, NCM-W, NETWORK COMMUNICATIONS MODULE, WIRE TYPE INTERFACE	1
5	NOTIFIER, LEM-320 LOOP EXPANDER MODULE	N/A
6	NOTIFIER, NFS2-640/E CHASSIS	1

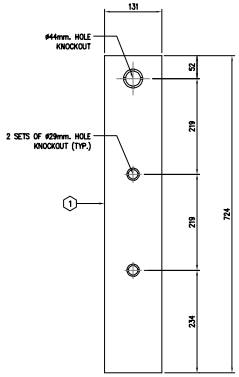
BILL OF MATERIALS		
ITEM	DESCRIPTIONS	Q'TY
7	NOTIFIER, APS2-6R(E) AUXILIARY POWER SUPPLY, 230 V AC	N/A
8	NOTIFIER, CHS-4L CHASSIS ASSEMBLY	N/A
9	NOTIFIER, BMP-1 BLANK DRESS PANEL	2
10	NOTIFIER, DP-DISP2 DRESS PANEL	1
11	NOTIFIER, DP-1B DRESS PANEL	1
12	BACK-UP BATTERY, 12 V, 26 AH	2



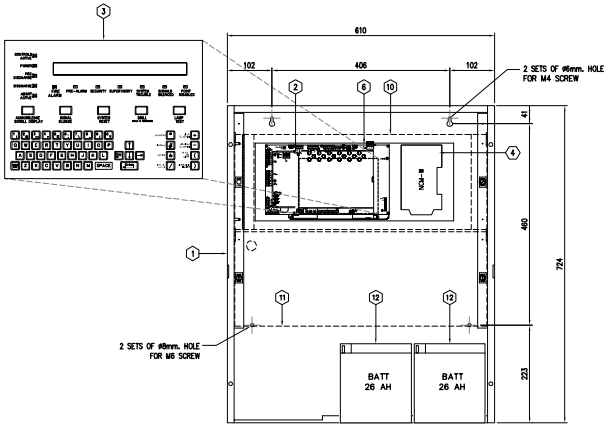
LEFT SIDE VIEW
KNOCKOUT LOCATIONS
(SCALE 1/5)



FRONT DOOR PANEL VIEW
(SCALE 1/5)



RIGHT SIDE VIEW
KNOCKOUT LOCATIONS
(SCALE 1/5)



INTERNAL VIEW
MOUNTING DETAIL
(SCALE 1/5)

REFERENCE DRAWING :

1. FIRE ALARM SYSTEM SCHEMATIC DRAWING OF LFAP-3, DWG.NO.P6266-2-12101 REV.E

DETAIL "B"

FIRE ALARM CONTROL PANEL
BRAND/MODEL : NOTIFIER/NFS2-640

NOTE:

1) THIS PANEL IS WALL MOUNTED TYPE AND SUPPORTED BY 2ø44 SCREWS & 2ø46 SCREWS FIXED TO THE MOUNTING PLATE OF THE EXTERNAL ENCLOSURE.
2) REFERENCE TO PANEL INTERNAL WIRING DIAGRAMS(DWG No. P6266-2-12101) FOR APPLIED DEVICES.

REV	DATE	DESCRIPTION	BY	CHKD	APPD
E	DEC.21,2020	FOR APPROVAL	T. Aultsorn	S. Chaiard	K. Thanthe
D	OCT.09,2020	FOR APPROVAL	T. Aultsorn	S. Chaiard	K. Thanthe
C	JUN.08,2020	FOR APPROVAL	T. Aultsorn	S. Chaiard	K. Thanthe
B	JAN.07,2020	FOR APPROVAL	T. Aultsorn	S. Chaiard	K. Thanthe
A	JULY.16,2019	FOR APPROVAL	T. Aultsorn	S. Chaiard	K. Thanthe

OWNER: PT.Bhumi Jati Power

PROJECT TITLE: TANJUNG JATI B EXPANSION (JAWA-4) COAL FIRED STEAM POWER PLANT 2 x 1,000 MW

OWNER'S ENGINEER: PÖYRY

EPC CONTRACTORS: Sumitomo Corporation / PT. Wasa Mitra Engineering / AvantPower Japan Ltd.

PROJECT DRAWING NO.: TJB56-L1-OFF-C-SGY-I-DSD-3727 — REV

ORDER
ITEM
TEAM CODE
Drawn
Checked
Approved
Date
Department: HUME PLANT LAYOUT & PIPING ENGINEERING SECTION / PLANT LAYOUT & PIPING DEPARTMENT

WBS Doc. CODE: —

Project DWG. No.: ES-(XT JB)5,6-32-00-0018 — Rev.: —

Title: PANEL OUTLINE DRAWING FOR ESP ELECTRICAL BUILDING

Scale: — | DWG. No.: P6266-2-12201 | Rev.: E | Sheet No.: 2/4

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CAD SOFTWARE: AUTOCAD 2010

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REV	DESCRIPTION	REVISING ZONE	REVISED	CHECKED	APPROVED	DATE

ENCLOSURE SPECIFICATION

BRAND : GUARDFIRE
DIMENSION : 630x900x250mm (WxHxD)
ENCLOSURE : ELECTRO GALVANIZED STEEL SHEET THICKNESS 2mm.
WEIGHT : APPROX. 35kg.
DOOR : SINGLE DOOR PANEL

CABINET COATING :

CABINET : POWDER COATED

PROTECTION CLASS: IP 55
SURFACE COLOR: RAL 3020

APPROVED AMBIENT TEMPERATURE

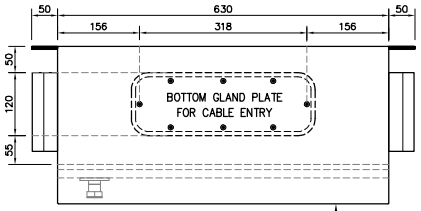
0°C TO +49°C

APPROVED RELATIVE HUMIDITY

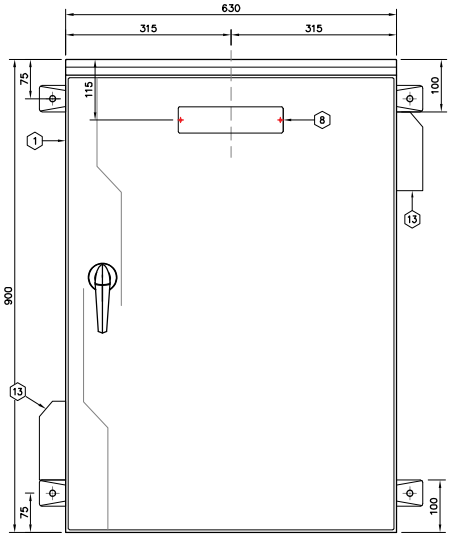
<93%

CABLE ENTRY
– BOTTOM SIDE

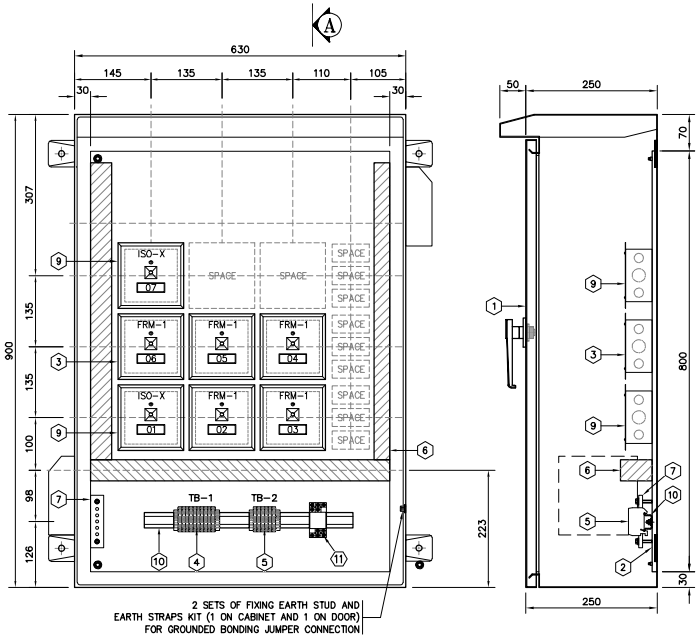
INTERNAL WIRING
– 2.5 Sq.mm. 450/750V PVC INSULATED WIRE (IEC 02)
– INSULATION COLOR : RED(+), BLUE(–)



BOTTOM VIEW
(SCALE 1/5)



FRONT VIEW
(SCALE 1/5)

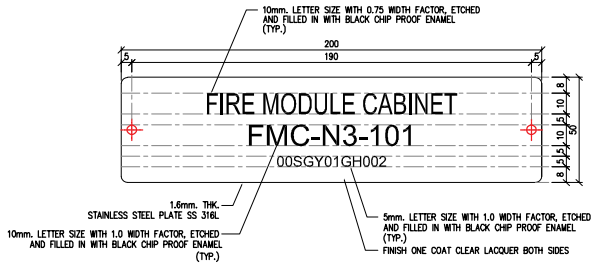


INSIDE VIEW
(WITHOUT COVER)
(SCALE 1/5)

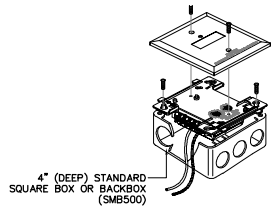
SECTION A–A
(SCALE 1/5)

BILL OF MATERIALS

ITEM	DESCRIPTIONS	Q'TY
1	COMPACT ENCLOSURE 630x900x250mm(WxHxD) BRAND : TAMCO	1
2	MOUNTING PLATE	1
3	NOTIFIER, ADDRESSABLE CONTROL RELAY MODULE(FRM–1) WITH "SMB500" SURFACE MOUNT BOX	5
4	PHOENIX, TERMINATION BLOCK WITH RAIL MOUNTED (TB–1) P/N : UT 4 FOR MAXIMUM CABLE SIZE 4 Sq.mm	10
5	PHOENIX, TERMINATION BLOCK WITH RAIL MOUNTED (TB–2) P/N : UT 4 FOR MAXIMUM CABLE SIZE 4 Sq.mm	6
6	WIRE DUCT 40x60mm (WxH)	–
7	EQUIVALENT POTENTIAL GROUND BAR (COPPER) SIZE 100x25x6mm (LxHxW)	1
8	STAINLESS STEEL PANEL NAME PLATE (SEE DETAIL "B")	1
9	NOTIFIER, FAULT ISOLATOR MODULE(ISO–X) WITH "SMB500" SURFACE MOUNT BOX	2
10	DIN RAIL, STEEL GALVANIZED 7.5x35mm(WxH), LENGTH: 2m PHOENIX P/N : NS 35/7,5 PERF 2m	1
11	OMRON RELAY 24VDC, 5A (MODEL : MY2IN(S)) WITH SOCKET	1



DETAIL "B" : NAMEPLATE DETAIL



DETAIL "A"
NTS.

FIRE MODULE CABINET, FMC–N3–101
00SGY01GH002
INSTALL LOCATION @ EP ELECTRICAL ROOM

REFERENCE DRAWING :

1. FIRE ALARM SYSTEM SCHEMATIC DRAWING OF LFAP–3, DWG.NO.P6266–2–12101 REV.E

REV	DATE	DESCRIPTION	BY	CHKD	APPD
E	DEC.21,2020	FOR APPROVAL	T. Aulizpam	S. Chaland	K. Thanthe
D	OCT.09,2020	FOR APPROVAL	T. Aulizpam	S. Chaland	K. Thanthe
C	JUN.08,2020	FOR APPROVAL	T. Aulizpam	S. Chaland	K. Thanthe
B	JANUARY.2020	FOR APPROVAL	T. Aulizpam	S. Chaland	K. Thanthe
A	JULY.16,2019	FOR APPROVAL	T. Aulizpam	S. Chaland	K. Thanthe

OWNER: PT.Bhumi Jati Power

PROJECT TITLE: TANJUNG JATI B EXPANSION (JAWA-4) COAL FIRED STEAM POWER PLANT 2 x 1,000 MW

OWNER'S ENGINEER: PÖYRY

EPC CONTRACTORS: Sumitomo Corporation / PT. Wasa Mitra Engineering / AvantPower Japan Ltd.

PROJECT DRAWING NO.: TJB56-L1-OFF-C-SGY-I-DSD-3727 REV

ORDER
ITEM
TEAM CODE
Drawn
Checked
Approved
Date
Department: HUME PLANT LAYOUT & PIPING ENGINEERING SECTION / PLANT LAYOUT & PIPING DEPARTMENT

WBS Doc. CODE: –
Project DWG. No.: ES-(XT JB)5,6-32-00-0018 Rev.: –
Title: PANEL OUTLINE DRAWING FOR ESP ELECTRICAL BUILDING
Scale
DWG. No.: P6266-2-12201
Rev.: E
Sheet No.: 3/4

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ENGINEERING HEADQUARTERS / PLANT ENGINEERING DIVISION

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CAD SOFTWARE: AUTOCAD 2010

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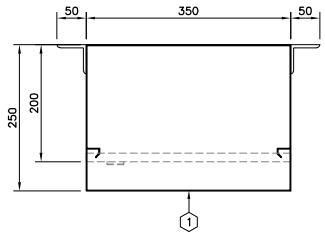
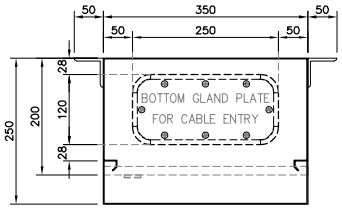
REV	DESCRIPTION	REVISING ZONE	REVISED	CHECKED	APPROVED	DATE



TOP VIEW
(SCALE 1/3)



BOTTOM VIEW
(SCALE 1/3)

ENCLOSURE SPECIFICATION

BRAND : GUARDFIRE
DIMENSION : 350x500x200mm (WxHxD)
MATERIAL : ELECTRO GALVANIZED STEEL SHEET THICKNESS 2mm.
DOOR : SINGLE DOOR
WEIGHT : APPROX. 10kg.
THICKNESS : 1.5mm

CABINET COATING :

CABINET : POWDER COATED

PROTECTION CLASS — SURFACE COLOR
IP 55 — RAL 3020

APPROVED AMBIENT TEMPERATURE
-20℃ TO +60℃

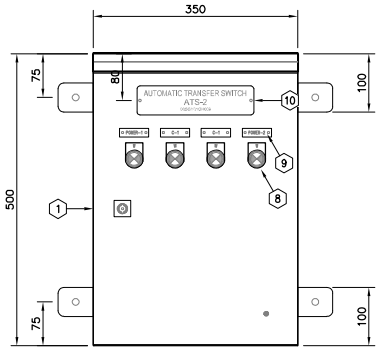
APPROVED RELATIVE HUMIDITY
5% - 98%

CABLE ENTRY
- BOTTOM SIDE

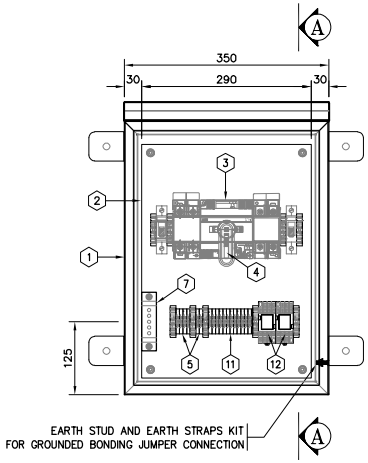
INTERNAL WIRING
- 4 Sq.mm. 450/750V PVC INSULATED WIRE
- INSULATION COLOR : RED(+), BLUE(-)

BILL OF MATERIALS

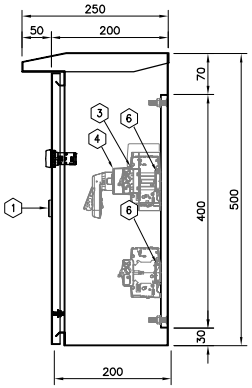
ITEM	DESCRIPTIONS	Q'TY
1	ENCLOSURE 350x500x200mm(WxHxD)	1
2	MOUNTING PLATE	1
3	ABB, AUTOMATIC TRANSFER SWITCH(ATS) 3 POLE, 63A, 415V DIN RAIL MOUNTING TYPE	1
4	ABB, ROTARY HANDLE INCLUDING ACCESSORIES	1
5	PHOENIX, TERMINATION BLOCK WITH RAIL MOUNTED(TB-1&2) P/N : UK10N FOR MAXIMUM CABLE SIZE 10 Sq.mm	6
6	DIN RAIL, STEEL GALVANIZED, LENGTH: 2m	-
7	EQUIVALENT POTENTIAL GROUND BAR (COPPER) SIZE 100x25x6mm.(LxHxW) INSTALLED ON INSULATION SUPPORT	1
8	STATUS INDICATOR LAMP	4
9	STAINLESS STEEL NAME PLATE FOR STATUS	4
10	STAINLESS STEEL PANEL NAME PLATE SEE DETAIL"A"	1
11	PHOENIX, TERMINATION BLOCK WITH RAIL MOUNTED(TB-3) P/N : UK5N FOR MAXIMUM CABLE SIZE 4 Sq.mm	12
12	CONTROL FUSE 10X38mm. 1P, 6A	2



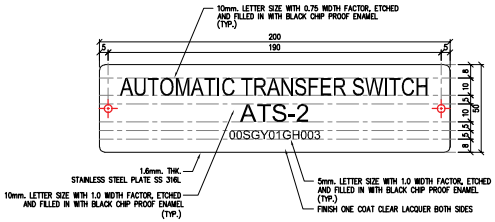
FRONT VIEW
(SCALE 1/3)



INSIDE VIEW
(WITHOUT COVER)
(SCALE 1/3)



SECTION A-A
(SCALE 1/3)



DETAIL "A" : NAME PLATE DETAIL

PANEL OUTLINE DRAWING OF AUTOMATIC TRANSFER SWITCH
MOUNTED IN STEEL ENCLOSURE(IP55)

REV	DATE	DESCRIPTION	BY	CHKD	APPD
E	DEC.23,2020	FOR APPROVAL	T.Aulapam	S.Chaiard	K.Thanthe
D	OCT.08,2020	FOR APPROVAL	T.Aulapam	S.Chaiard	K.Thanthe
C	JUN.08,2020	FOR APPROVAL	T.Aulapam	S.Chaiard	K.Thanthe
B	JAN.07,2020	FOR APPROVAL	T.Aulapam	S.Chaiard	K.Thanthe
A	JULY.16,2019	FOR APPROVAL	T.Aulapam	S.Chaiard	K.Thanthe

OWNER: PT.Bhumi Jati Power

PROJECT TITLE: TANJUNG JATI B EXPANSION (JAWA-4) COAL FIRED STEAM POWER PLANT 2 x 1,000 MW

OWNER'S ENGINEER: PÖYRY

EPC CONTRACTORS: Sumitomo Corporation; PT. Wasa Mitra Engineering; AvantPower Japan Ltd.

PROJECT DRAWING NO.: TJB56-L1-OFF-C-SGY-I-DSD-3727 — REV

ORDER
ITEM
TEAM CODE
Drawn
Checked
Approved
Date
Department: HOME PLANT LAYOUT & PIPING ENGINEERING SECTION, PLANT LAYOUT & PIPING DEPARTMENT

WBS Doc. CODE: —

Project DWG. No.: ES-(XT JB)5,6-32-00-0018 — Rev.: —

Title: PANEL OUTLINE DRAWING FOR ESP ELECTRICAL BUILDING

Scale: — DWG. No.: P6266-2-12201 Rev.: E Sheet No.: 4/4

MITSUBISHI HITACHI POWER SYSTEMS
ENGINEERING HEADQUARTERS / PLANT ENGINEERING DIVISION

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CAD SOFTWARE: AUTOCAD 2010