PROTECTION – EXTERNAL TO IP42, SEGREGATION
INTERNAL TO IP20

FINISH – ENCLOSURE FRAME – BODY, DOOR AND GLAND PLATES:
DIPCOAT PRIMED IN RAL 7035, POWDER COATED IN TEXTURED RAL 7035 ON THE OUTSIDE.

DEGREE OF PROTECTION BETWEEN

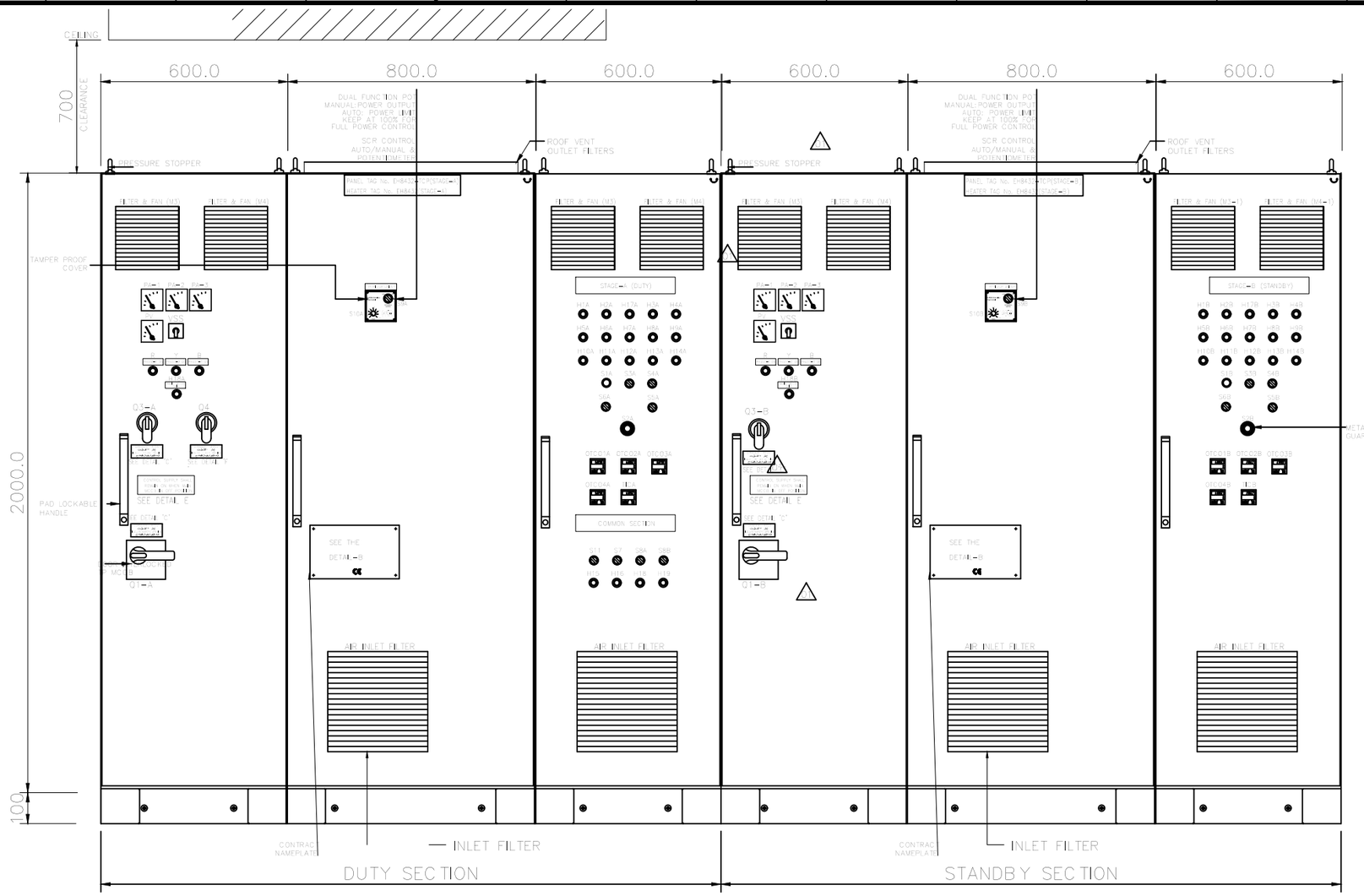
POWER & CONTROL SECTION COMPARTMENT – IP3XD
CONTROL & THYRISTOR SECTION COMPARTMENT – IP3XD
I/C & THYRISTOR SECTION COMPARTMENT – IP2XD
MOUNTING PLATE – ZINC PLATED
PLINTH – PAINTED RAL 7022
CONSTRUCTION – ENCLOSURE – 1.5mm MILD STEEL
DOOR THICKNESS – 2mm MILD STEEL
MOUNTING PLATE – 3mm MILD STEEL
APPROXIMATE WEIGHT – 600kg
APPROXIMATE PANEL HEAT LOSS – 600W △

COVER COMPONENT LEGEND

STAGE–A DUTY	STAGE–B STANDBY	
S1A	S1B	PUSHBUTTON HEATER START(GREEN)
S2A	S2B	PUSHBUTTON ESD(RED)
S3A	S3B	KEY SWITCH TRIP RESET + EARTH LEAKAGE TEST (HOLD FOR EARTH LEAKAGE/PRESS FOR TRIP RESET)
S4A	S4B	SEL SWITCH DUTY / STANDBY COOLING FANS
S5A	S5B	PUSHBUTTON LAMP TEST(BLACK)
S6A	S6B	KEY SWITCH LOCAL/REMOTE
S9A	S9B	KEY SWITCH AUTO/MANUAL
S10A	S10B	POTENTIOMETER
H1A	H1B	PILOT LAMP MAIN SUPPLY ON (RED)
H18A	H18B	PILOT LAMP MAIN MCCB TRIP (AMBER)
H2A	H2B	PILOT LAMP HEATER ON (RED)
H17A	H17B	PILOT LAMP HEATER OFF (GREEN)
H3A	H3B	PILOT LAMP EARTH LEAKAGE TRIP (AMBER)
H4A	H4B	PILOT LAMP ELEMENT–1 OVERTEMP TRIP (AMBER)
H5A	H5B	PILOT LAMP ELEMENT–2 OVERTEMP TRIP (AMBER)
H6A	H6B	PILOT LAMP FLANGE OVERTEMP TRIP (AMBER)
H7A	H7B	PILOT LAMP TERMINAL BOX OVERTEMP TRIP (AMBER)
H8A	H8B	PILOT LAMP THYRISTOR HEATSINK OVERTEMP TRIP (AMBER)
H9A	H9B	PILOT LAMP DUTY FAN FAILURE (AMBER)
H10A	H10B	PILOT LAMP STANDBY FAN FAILURE (AMBER)
H11A	H11B	PILOT LAMP CUBICLE OVERTEMP TRIP (AMBER)
H12A	H12B	PILOT LAMP FIELD ESD TRIP (AMBER)
H13A	H13B	PILOT LAMP UNBALANCE LOAD TRIP (AMBER)
H14A	H14B	PILOT LAMP UNDER/OVER VOLTAGE TRIP (AMBER)
OTC01A	OTC01B	ELEMENT–1 OVERTEMP TRIP UNIT
OTC02A	OTC02B	ELEMENT–2 OVERTEMP TRIP UNIT
OTC03A	OTC03B	FLANGE OVERTEMP TRIP UNIT
OTC04A	OTC04B	TERMINAL BOX OVERTEMP TRIP UNIT
TICA	TICB	TEMPERATURE INDICATOR
ATD–A	ATD–B	THYRISTOR DRIVER
PA–A 1–3	PA–B 1–3	AMMETER SF<5
PV–A	PV–B	VOLTMETER
VSS–A	VSS–B	VOLTMETER SELECTOR SWITCH
Q1–A	Q1–B	INCOMING TP MCCB
Q3–A	Q3–B	FUSED ISOLATOR

COMMON SWITCH & INDICATION LAMP(FIXED ON DUTY CONTROL PANEL)

S11 KEY SWITCH DUTY / STANDBY HEATER SELECTION
S7 KEY SWITCH SWITCH HEATER ACH OFF/ON
S8A KEY SWITCH SWITCH STAGE–A CONTROL PANEL ACH OFF/ON
S8B KEY SWITCH SWITCH STAGE–B CONTROL PANEL ACH OFF/ON
H15 PILOT LAMP CONTROL PANEL ACH ON (BLUE)
H16 PILOT LAMP HEATER ACH ON (BLUE)
H18 PILOT LAMP HEATER STAGE–A ON (RED)
H19 PILOT LAMP HEATER STAGE–B ON (RED)
Q4 FUSED ISOLATOR (230V EXTERNAL SUPPLY)



FRONT VIEW

PRIMARY CIRCUIT POWER WIRING COLOUR CODES △

R–PHASE : RED
Y–PHASE : YELLOW
B–PHASE : BLUE
NEUTRAL : BLACK
EARTH CONDUCTOR : GREEN AND YELLOW
M1–M2 – THYRISTOR COOLING FAN
SCR1 THYRISTOR(SILICON CONTROLLED RECTIFIER)

R PILOT LAMP PHASE–1 ON (RED)
Y PILOT LAMP PHASE–2 ON (YELLOW)
B PILOT LAMP PHASE–3 ON (BLUE)
B4/B5 PANEL THERMOSTAT
E1&E2 PANEL LIGHT WITH DOOR MICRO SWITCH
ACH ANTI CONDENSATION HEATER
B4 – PANEL THERMOSTAT
ATD – THYRISTOR DRIVER
M1 THYRISTOR DUTY COOLING FAN
M2 THYRISTOR STANDBY COOLING FAN
M3&M4 ENC. COOLING FAN

THYRISTOR INPUT POWER FACTOR/EFFICIENCY

POWER FACTOR = 1
EFFICIENCY = 99.5%
NOISE LEVEL@ 1m < 75dB
APPROXIMATE PANEL HEAT LOSSES=600W

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