Product Datasheet

Medical Imaging Distribution Boards

Model	SL1-3250-WNNS-A
Description	2x125Amp Outgoing Circuits, 3 Poles. Warning Lights Circuit and Emergency Power Off
Trip Unit	Schneider Micrologic 2.3
Energy Monitoring	No
Earth Leakage Protection (Main Circuit)	No

Voltage Ratings

U_n (Voltage)	415 V AC
U_e (Operational Voltage)	415 V AC
U_i (Insulation Voltage)	400 V AC
U_{imp} (Impulse Withstand Voltage)	4 kV

Current Ratings

I_{nA} (Current)	250 A
I_{nc} (Current – Outgoing Circuits)	125 A
I_{nc} (Current – Warning Lights Circuit)	16 A
I_{pk} (Peak withstand)	NA
I_{cw} (Short-time withstand)	NA
I_{cc} (Conditional short-circuit current)	10kA RMS

Other Specifications

Diversity Factor	1
Frequency	50/60 Hz
Other Characteristics	

Additional Requirements

Pollution Degree	3
Earthing Type	TN-S
Indoor or Outdoor	Indoor

Stationary or Movable	Stationary
Degree of Protection	IP55
Intended for Use	Skilled Persons
Electromagnetic Compatibility Classification	Environment B
Special Service Conditions	Maximum Ambient Air Temperature 35° C
External Design	Wall Mounted Surface Type
Mechanical Impact	IK10
Type of Construction	Fixed Parts
Protection Against Electric Shock	Enclosure openable by key or tool
Overall Dimensions	1,000 high x 800 wide x 300 deep
Weight	51kg
Form of Internal Separation	2b
Types of Electrical Connections of Functional Units	FFF

Service Conditions

Ambient Air Temperature	Maximum 40°C Short Term Maximum 35°C Average over 24 hours Minimum -25°C
Maximum Altitude	2,000m
Overvoltage Category (IEC 60364-4-44:2007)	Category III

Short Circuit Protective Device

Mechanism	Protection Description
Schneider ComPacT NSX Moulded Case Circuit Breaker	Reflex (mechanical) tripping for high short-circuit currents, maximum break time 10ms.
Micrologic 2.3, 400A	Adjustable short-time protection, 1.5-10xIr, with fixed delay. Fixed instantaneous protection: cutoff current Ii = 4,800A

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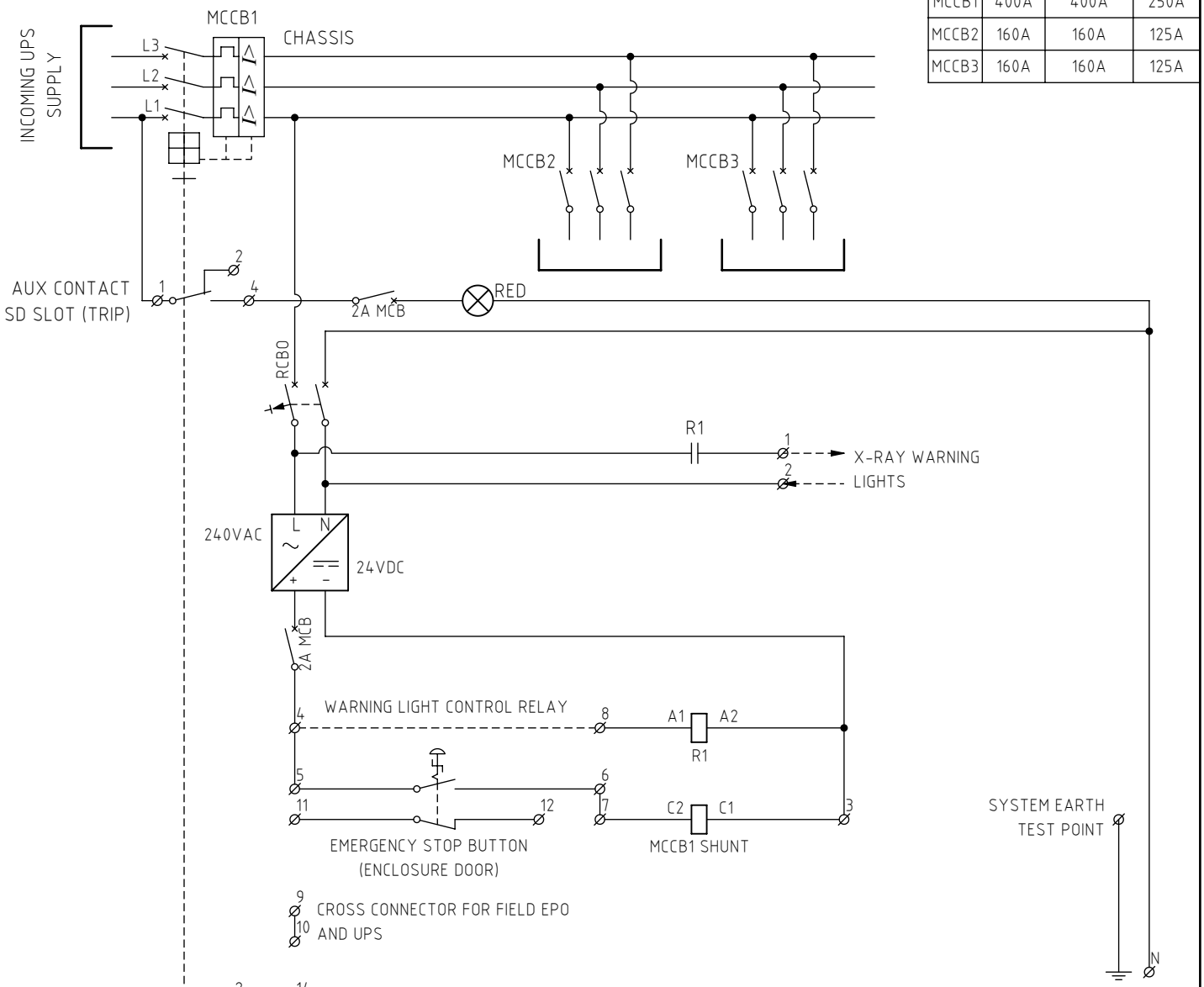
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Appendix A - Drawings

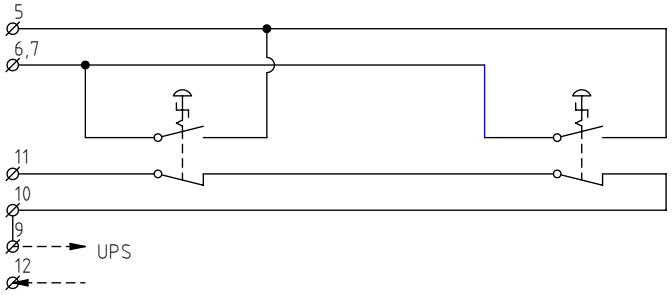
Medical Imaging Distribution Boards

Sheet 1	Electrical Schematic
Sheet 2	General Arrangement
Sheet 3	Parts List
Sheet 4	Additional Views

ID	FRAME	TRIP UNIT	SET TO
MCCB1	400A	400A	250A
MCCB2	160A	160A	125A
MCCB3	160A	160A	125A



RECOMMENDED WIRING FOR ADDITIONAL EPO
CONNECT IN THE FIELD AS SHOWN



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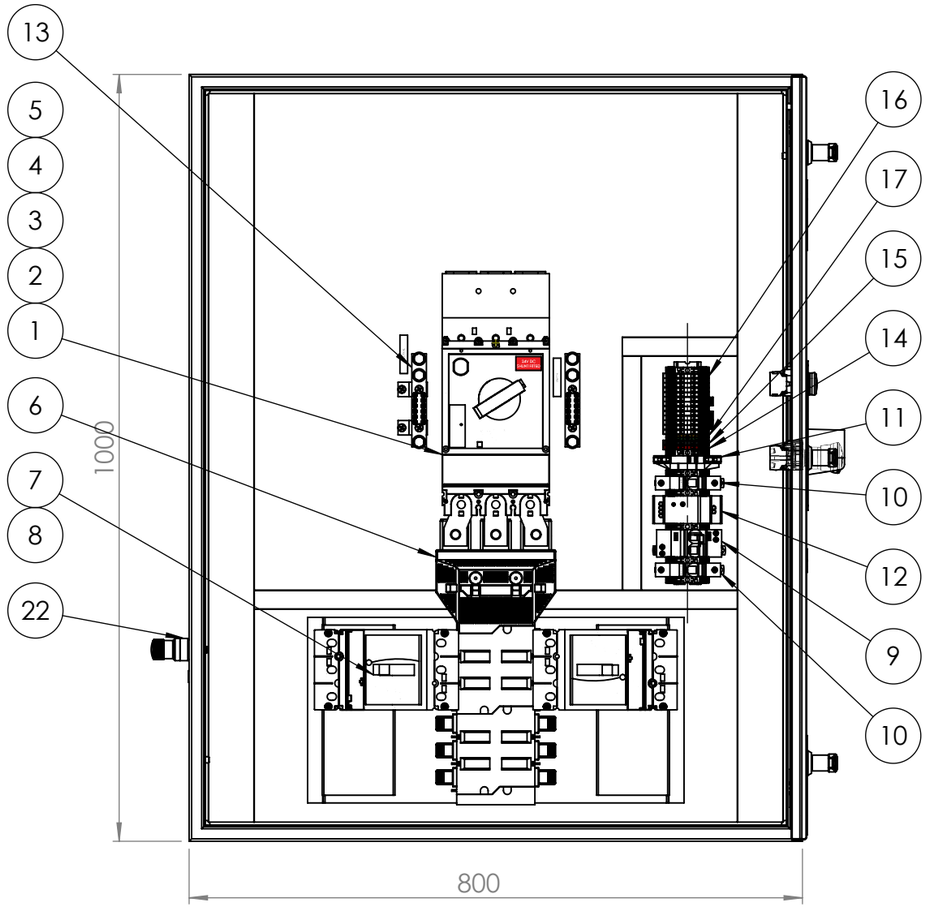
DRAWN	MW	1/10/2026	CHECKED	DvD	1/10/2026

REV	DATE	DESCRIPTION
A	1/10/2026	FOR CONSTRUCTION

TITLE: Medical Imaging Distribution Boards Single Compartment One Isolator Electrical Schematic

Model	Version	Dwg Rev
SL1-3250-WNNS	A	A

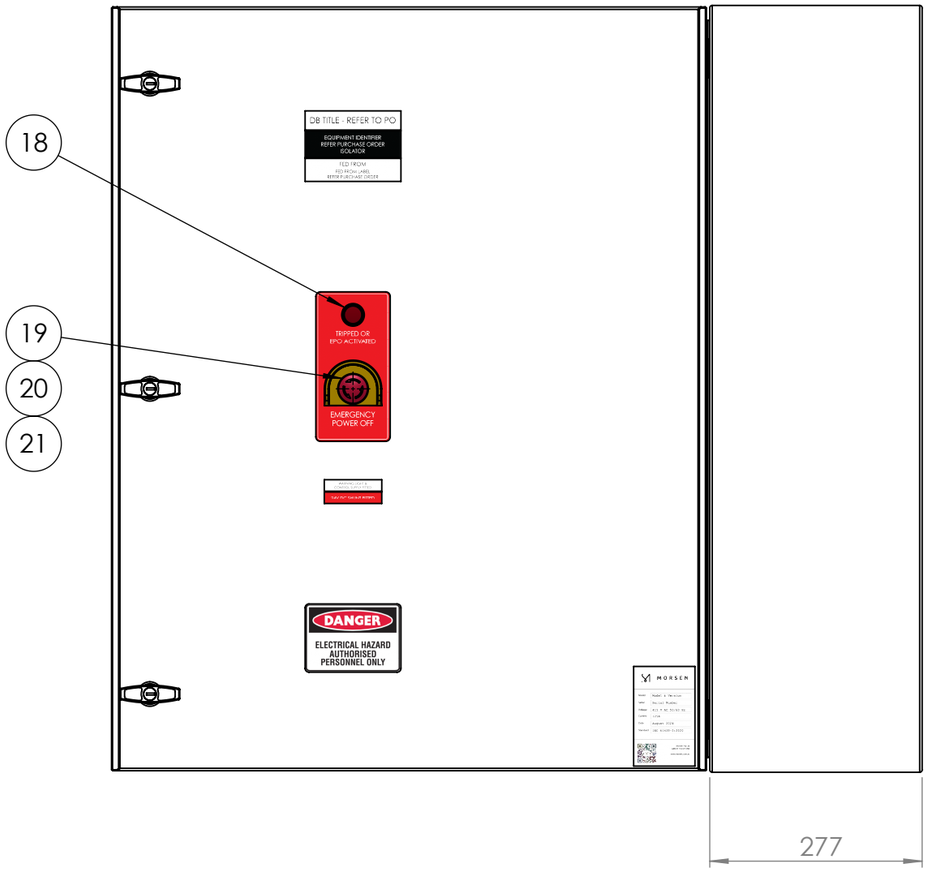
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FRONT VIEW

(Escutcheon Omitted)
Ref Parts List on Sheet 3

Ref Additional Arrangement Views on Sheet 4



RIGHT SIDE

DOOR OPEN

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DRAWN	MW	1/10/2026	CHECKED	DvD	1/10/2026

REV	DATE	DESCRIPTION
A	1/10/2026	FOR CONSTRUCTION

TITLE: Medical Imaging Distribution Boards
Single Compartment One Isolator
General Arrangement

Model	Version	Dwg Rev
SL1-3250-WNNS	A	A

SCALE:1:8 A3

ITEM	NAME	DESCRIPTION	QTY
1	MCCB 3-Pole	ComPacT NSX400F, 36kA/415VAC, 3P, 400A	1
2	Trip Unit 3-Pole	MicroLogic 2.3, ComPacT NSX400/630, 3 Poles, Electronic Basic Protections, 400A	1
3	Shunt Trip	MX Series, 24VDC for ComPacT NSX100-630	1
4	Standard Auxiliary Contact	Circuit Breaker Status SD, 1 changeover contact type, screwless spring terminals	1
5	Standard Auxiliary Contact	Circuit Breaker Status OF, 1 changeover contact type, screwless spring terminals	1
6	Encapsulated Chassis	630A 12-Pole 35mm Pitch	1
7	3-Pole Circuit Breaker	ComPacT NSX160F, 3-Pole, 160A, 36kA/415VAC	2
8	3-Pole Trip Unit	TM160D 160A Thermal Magnetic Protections	2
9	Residual Current Breaker	Acti9, Residual current breaker with overcurrent protection (RCBO), Acti9 iDPN N Vigi, 1P+N, 20A, C curve, 6000A, A type, 30mA	1
10	Miniature Circuit Breaker	Acti9, Acti9 iC60N Disbo, 1P, 2A, C curve, 10kA	2
11	Solid State Relay	Harmony 12A, Zero voltage switching, Input 4-32V DC, Output 24-280V AC	1
12	Power Supply 24V DC	PRO BAS Switched Mode 60W 24V 2.5A	1
13	Earth Neutral Bar	6-Pole 165A	2
14	Terminal Block	Standard feed-through, Screw connection, 4mm2, 32A 800V, Red	1
15	Terminal Block	Standard feed-through, Screw connection, 4mm2, 32A 800V, Black	1
16	Terminal Block	Standard feed-through, Screw connection, 4mm2, 32A 800V, Dark Beige	13
17	Protective Earth Terminal 6mm	Protective Earth, Standard feed-through, Screw connection, 6mm2, 800V, 480A Short-Time Current, Green and Yellow	1
18	Indicator LED	22mm Round Plastic Red with holder, LED module, with integrated LED 230 V AC screw terminal	1
19	Emergency Stop Pushbutton	Mushroom Pushbutton 40mm Plastic Rotate to Unlatch	1
20	E-Stop NC Contact	NC Contac for E-Stop, Screw Terminals	2
21	E-Stop NO Contact	NO Contac for E-Stop, Screw Terminals	1
22	Earth Stud	Medilec Equipotential	1

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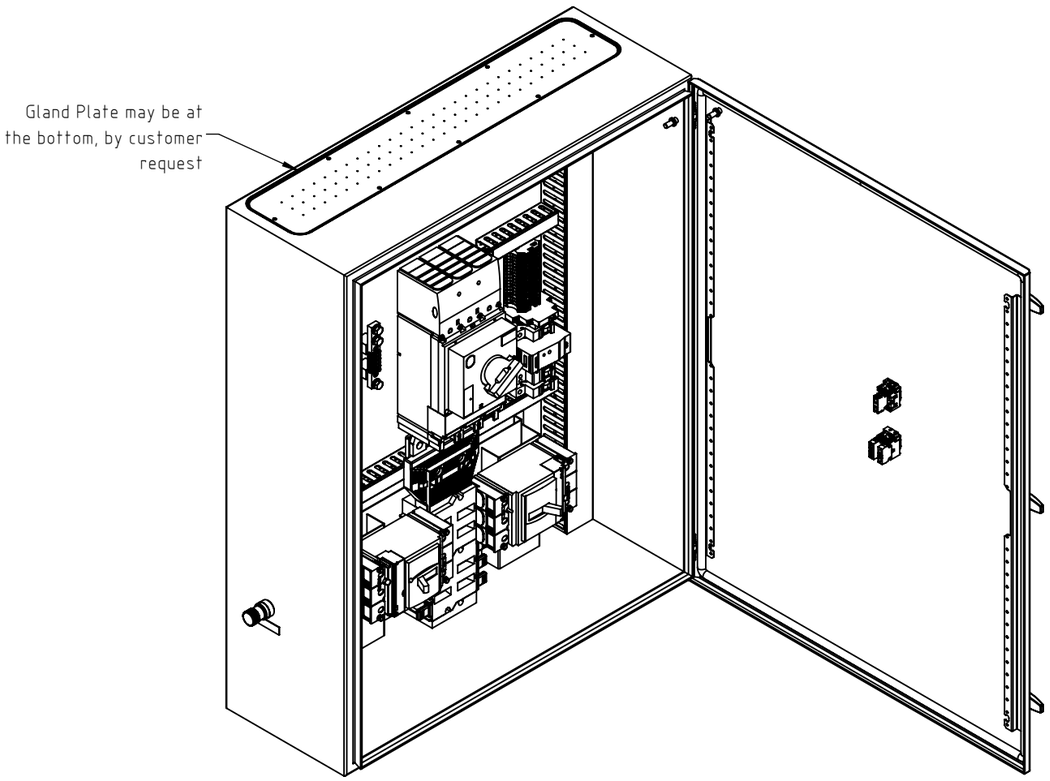
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REV	DATE	DESCRIPTION			

TITLE: Medical Imaging Distribution Boards Single Compartment One Isolator Parts List

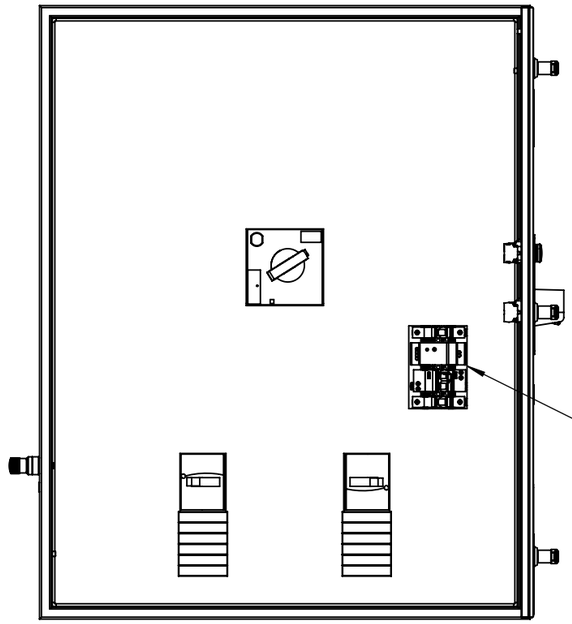
Model	Version	Dwg Rev
SL1-3250-WNNS	A	A

SCALE:1:10 A4 SHEET 3 OF 4



ISOMETRIC VIEW

Left-Handed Door



FRONT VIEW

(Escutcheon Closed)

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A	1/10/2026	FOR CONSTRUCTION			
REV	DATE	DESCRIPTION			

TITLE: Medical Imaging Distribution Boards
Single Compartment One Isolator
General Arrangement

Model	Version	Dwg Rev
SL1-3250-WNNS	A	A

SCALE:1:10 A3

SHEET 6 OF 6