Product Datasheet

Medical Imaging Distribution Boards

Model	SL1-3250-WNNS-B
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

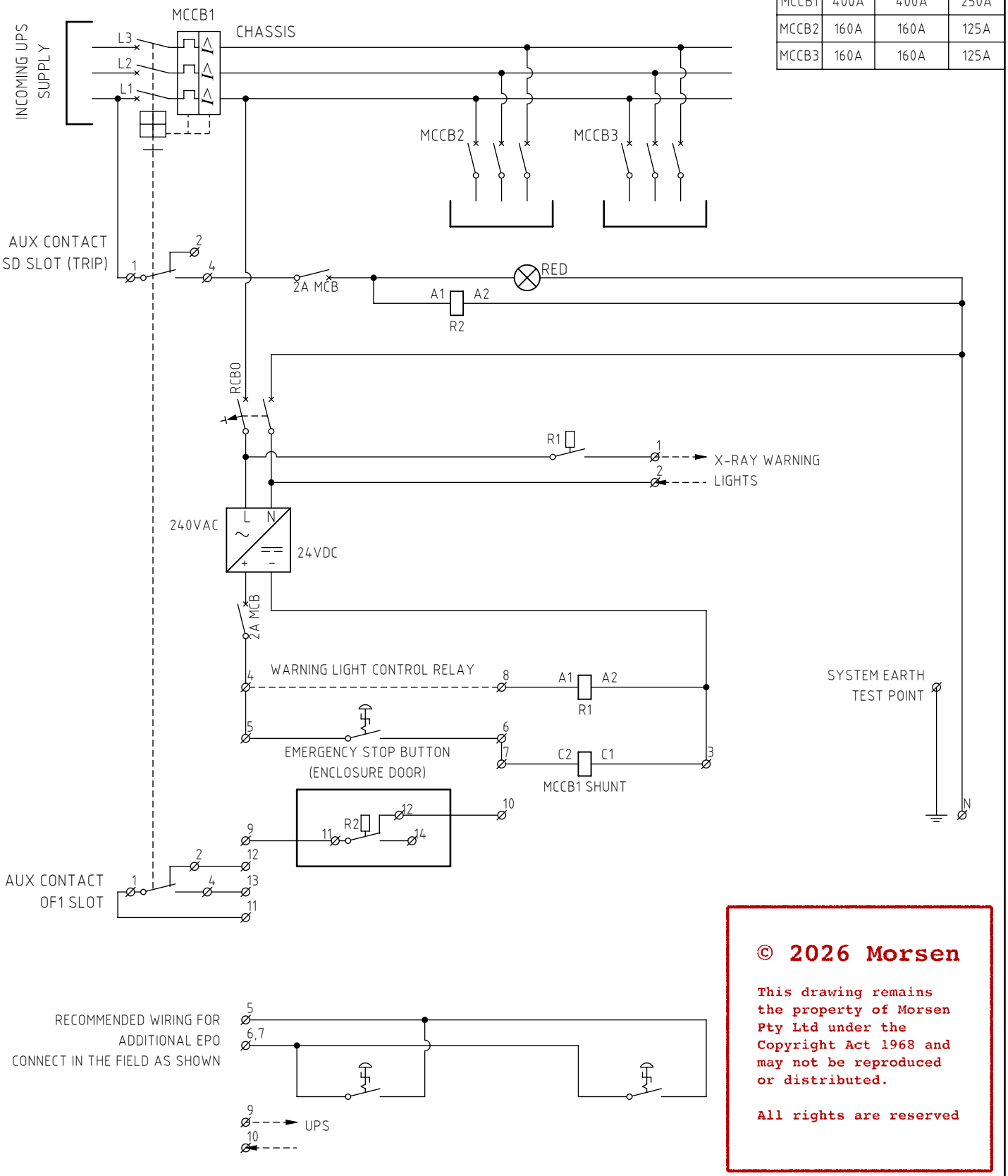
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Appendix A - Drawings

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



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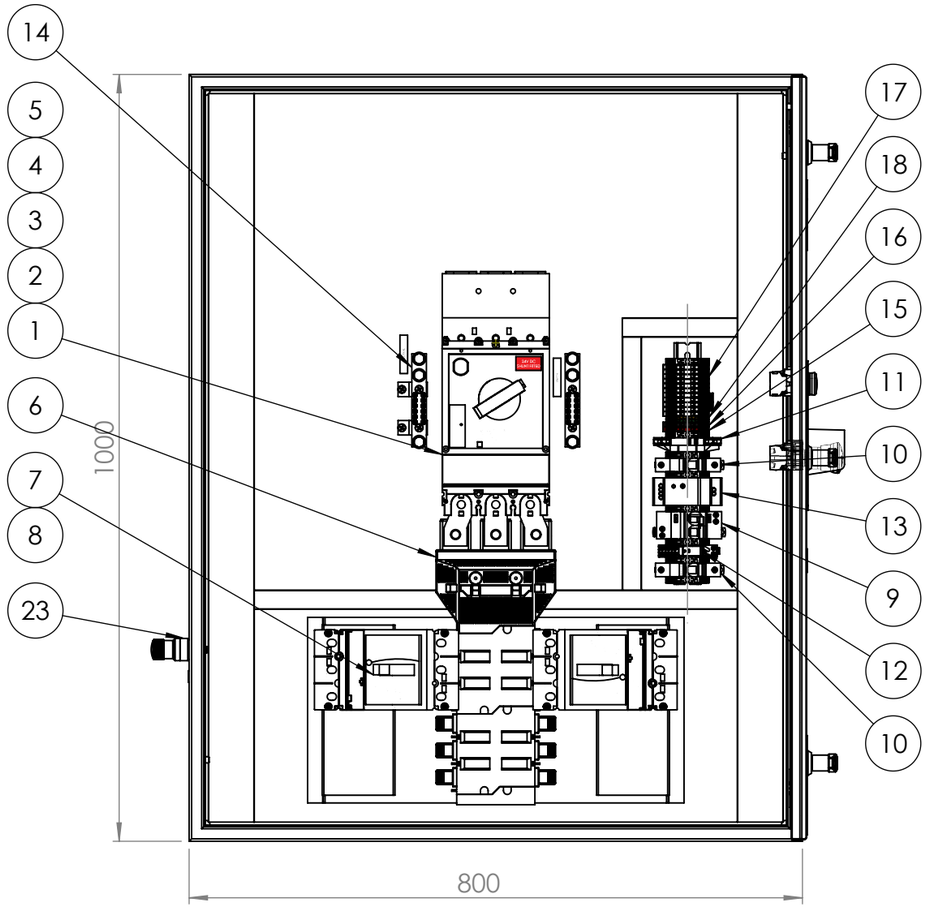
REV	DATE	DESCRIPTION
A	20/11/2026	FOR CONSTRUCTION

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

Model	Version	Dwg Rev
SL1-3250-WNNS	B	A

SCALE:1:1 A4

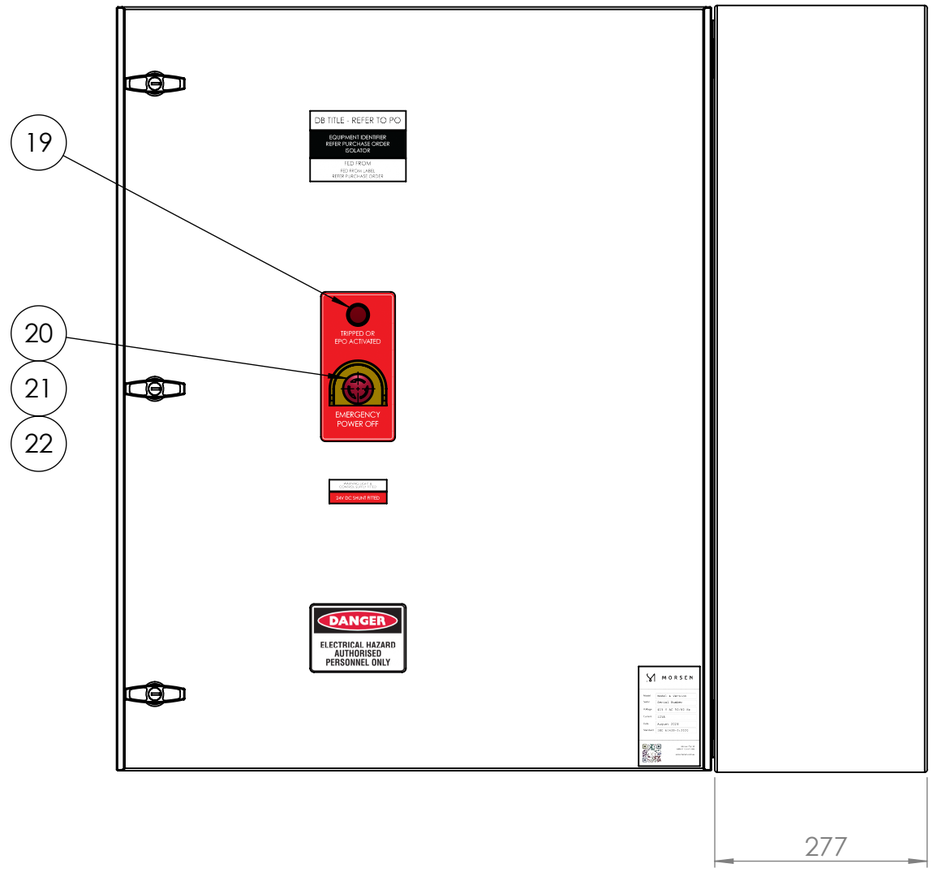
SHEET 1 OF 4



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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REV	DATE	DESCRIPTION
A	20/11/2026	FOR CONSTRUCTION

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

Model	Version	Dwg Rev
SL1-3250-WNNS	B	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	Relay 2P Plug In	Harmony Electromechanical Relay, 5A, 2CO, with LED, 230V AC	1
13	Power Supply 24V DC	PRO BAS Switched Mode 60W 24V 2.5A	1
14	Earth Neutral Bar	6-Pole 165A	2
15	Terminal Block	Standard feed-through, Screw connection, 4mm2, 32A 800V, Red	1
16	Terminal Block	Standard feed-through, Screw connection, 4mm2, 32A 800V, Black	1
17	Terminal Block	Standard feed-through, Screw connection, 4mm2, 32A 800V, Dark Beige	11
18	Protective Earth Terminal 6mm	Protective Earth, Standard feed-through, Screw connection, 6mm2, 800V, 480A Short-Time Current, Green and Yellow	1
19	Indicator LED	22mm Round Plastic Red with holder, LED module, with integrated LED 230 V AC screw terminal	1
20	Emergency Stop Pushbutton	Mushroom Pushbutton 40mm Plastic Rotate to Unlatch	1
21	E-Stop NC Contact	NC Contac for E-Stop, Screw Terminals	2
22	E-Stop NO Contact	NO Contac for E-Stop, Screw Terminals	1
23	Earth Stud	Medilec Equipotential	1

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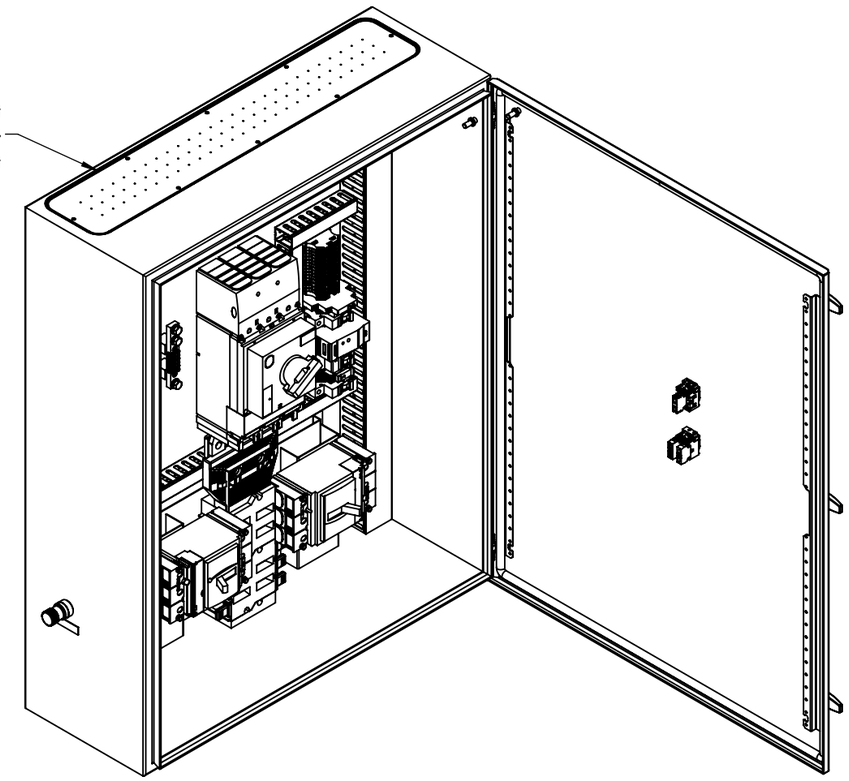
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REV	DATE	DESCRIPTION
A	20/11/2026	FOR CONSTRUCTION

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

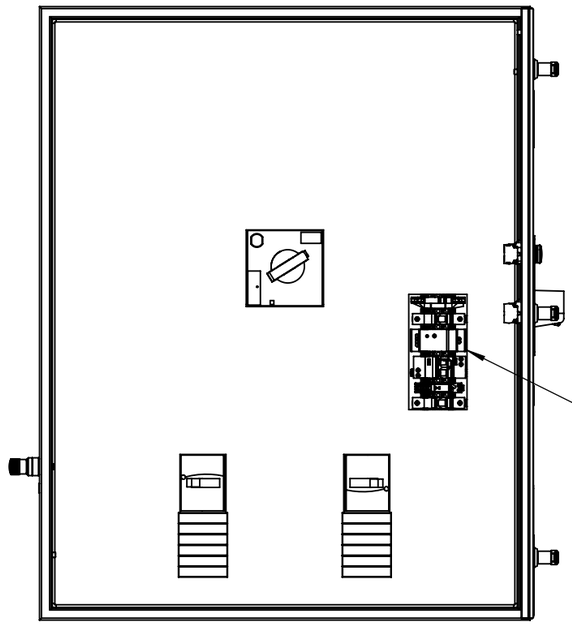
Model	Version	Dwg Rev
SL1-3250-WNNS	B	A

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ISOMETRIC VIEW

Left-Handed Door



FRONT VIEW

(Escutcheon Closed)

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REV	DATE	DESCRIPTION
A	20/11/2026	FOR CONSTRUCTION

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

Model	Version	Dwg Rev
SL1-3250-WNNS	B	A

SCALE:1:10 A3