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Product Datasheet

Medical Imaging Distribution Boards

Model	SL1-3125-WNNS-H
Description	125 Amps, 3 Poles, with Warning Lights Circuit and Emergency Power Off. Solid State Relay
Trip Unit	Schneider Micrologic 2.2
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)	125 A
I_{nc} (Current – Main Circuit)	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	500 high x 400 wide x 200 deep
Weight	16kg
Form of Internal Separation	Form 1
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

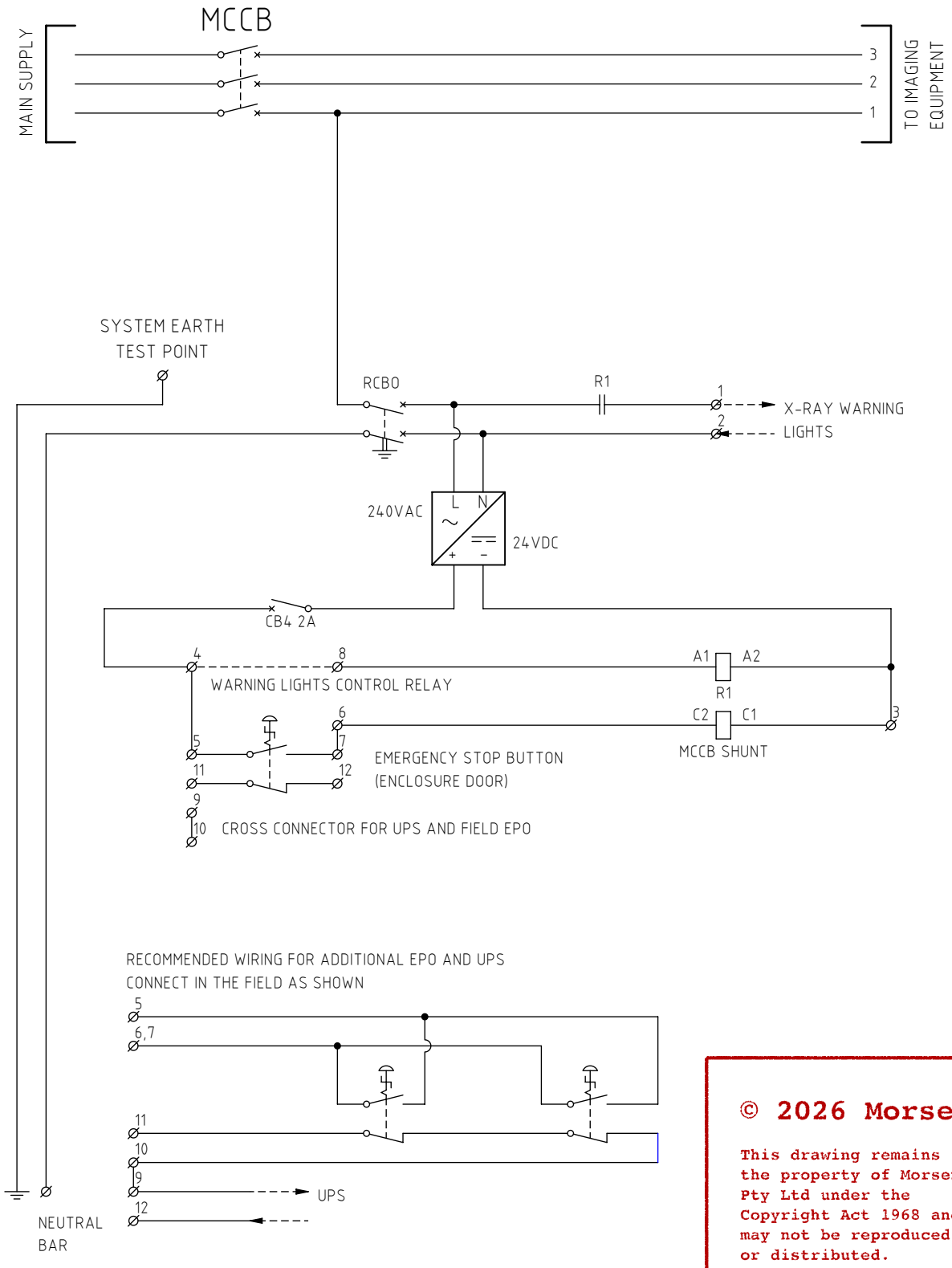
Mechanism	Protection Description
Schneider ComPacT NSX Moulded Case Circuit Breaker	Reflex (mechanical) tripping for high short-circuit currents, with a maximum break time of 10ms.
Micrologic 2.2, 160A	Adjustable short-time protection, 1.5-10xI_r, with fixed delay. Fixed instantaneous protection: cutoff current I_i = 2,400A

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Appendix A - Drawings

Medical Imaging Distribution Boards

Sheet 1	Electrical Schematic
Sheet 2	General Arrangement



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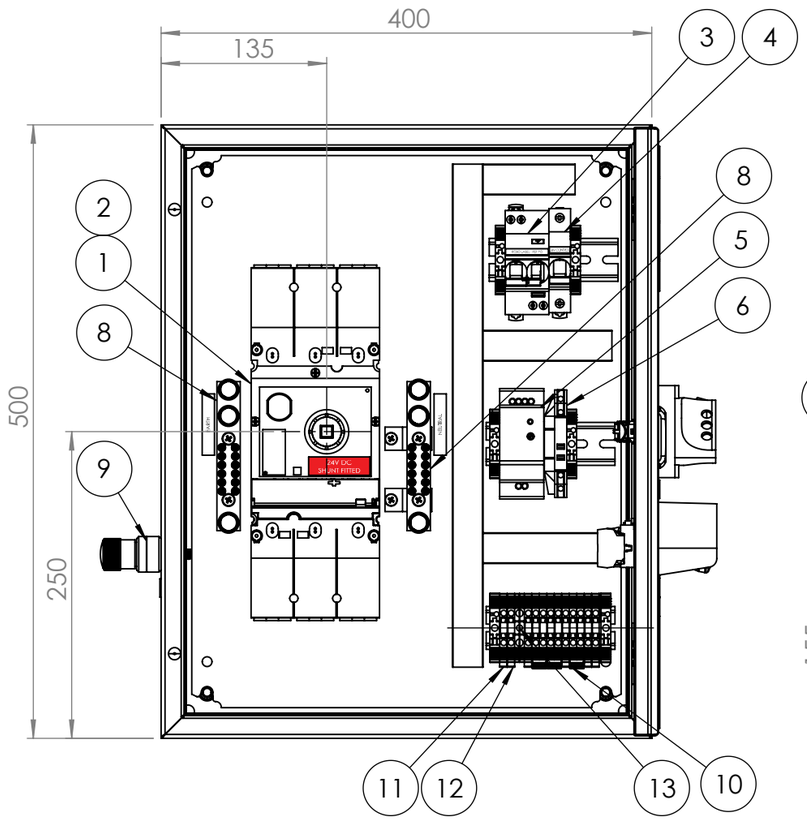
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DRAWN	MW	10/10/2026	CHECKED	DvD	10/10/2026
DS-B	19/11/2026	As Built			
DS-A	10/10/2026	DATASHEET VERSION			
REV	DATE	DESCRIPTION			

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

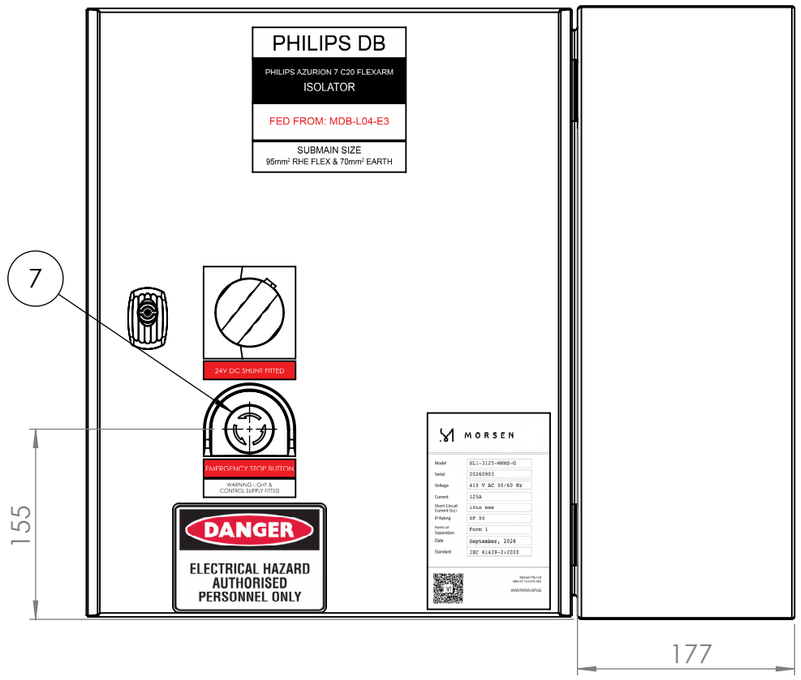
Model	Version	Dwg Rev
SL1-3125-WNNS	H	DS-B

SCALE:1:1 A4 SHEET 1 OF 2



FRONT VIEW

Door Open



RIGHT SIDE

ITEM	NAME	DESCRIPTION	QTY.
1	3-Pole Circuit Breaker	ComPacT NSX160F, 3-Pole, 160A, 36kA/415VAC	1
2	3-Pole Trip Unit	Micrologic 2.2 160A Electronic Basic Protections	1
3	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
4	Miniature Circuit Breaker	Acti9, Acti9 iC60N Disbo, 1P, 2A, C curve, 10kA	1
5	Power Supply 24V DC	PRO BAS Switched Mode 60W 24V 2.5A	1
6	Solid State Relay	Harmony 12A, Zero voltage switching, Input 4-32V DC, Output 24-280V AC	1
7	Emergency Stop Pushbutton	Mushroom Pushbutton 40mm Plastic Rotate to Unlatch	1
8	Earth Neutral Bar	6-Pole 165A	2
9	Earth Stud	Medilec Equipotential	1
10	Terminal Block	Standard feed-through, Screw connection, 4mm2, 32A 800V, Dark Beige	10
11	Terminal Block	Standard feed-through, Screw connection, 4mm2, 32A 800V, Red	1
12	Terminal Block	Standard feed-through, Screw connection, 4mm2, 32A 800V, Black	1
13	Protective Earth Terminal 6mm	Protective Earth, Standard feed-through, Screw connection, 6mm2, 800V, 480A Short-Time Current, Green and Yellow	1

NOTES

1. Dimensions for component positions are approximate and subject to change without notice

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

Model	Version	Dwg Rev
SL1-3125-WNNS	H	DS-B

SCALE:1:5 A3 SHEET 2 OF 2