

Product Datasheet

Medical Imaging Distribution Boards

Model	SL1-4125-WRNS-E
Description	125 Amps, 4 RCD-Protected Poles, with Warning Lights Circuit and Emergency Power Off. Left-Handed Door. Enclosure 800mm high x 600mm wide x 200mm deep
Trip Unit	Schneider Micrologic 4.2
Energy Monitoring	No
Earth Leakage Protection (Main Circuit)	Yes

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	800 high x 600 wide x 200 deep
Weight	35kg
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

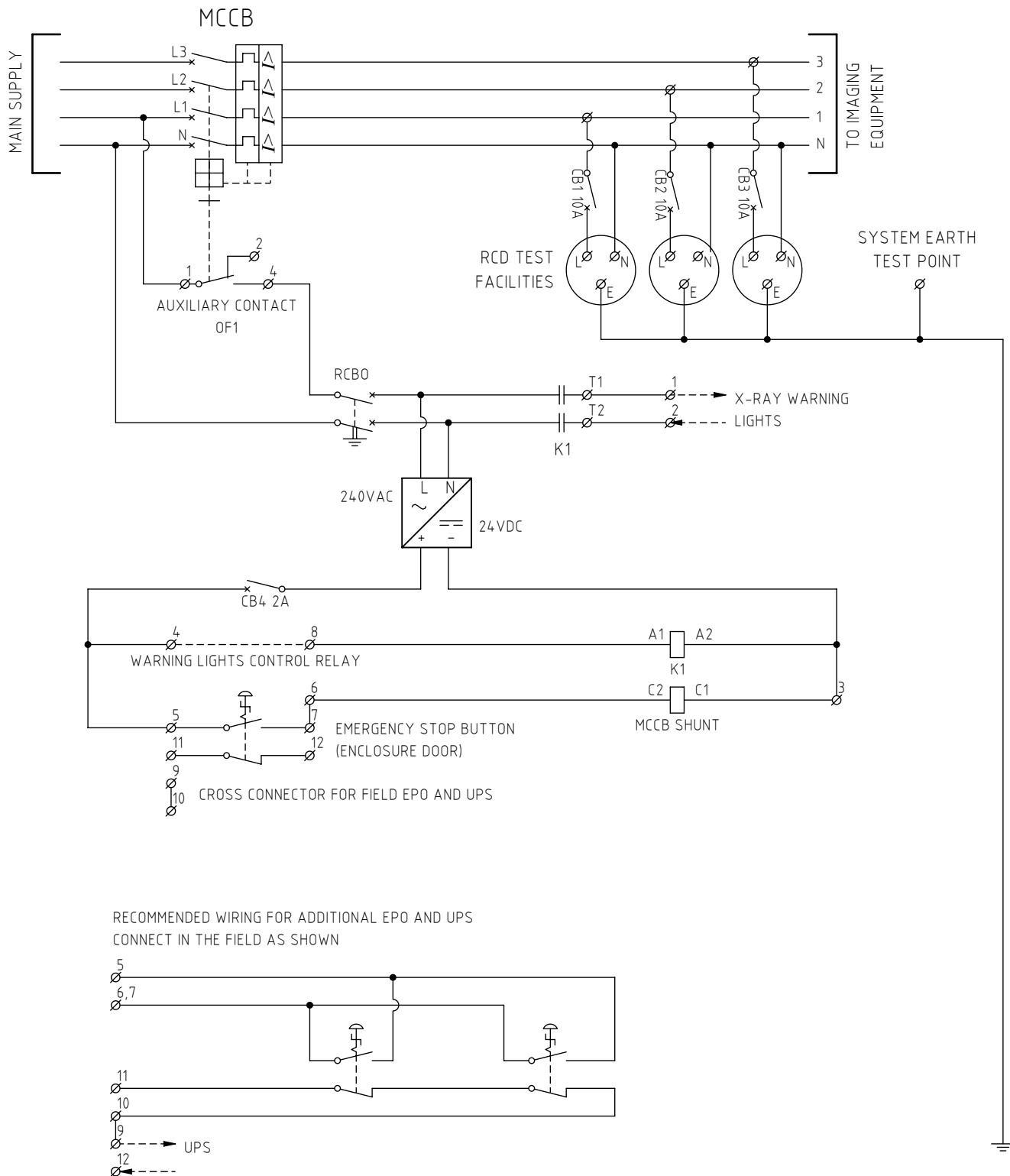
Short Circuit Protective Device

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 4.2, 160A	Adjustable short-time short circuit 1.5-10xI _n with fixed delay. Non-adjustable instantaneous: cutoff current I _i = 2,400A
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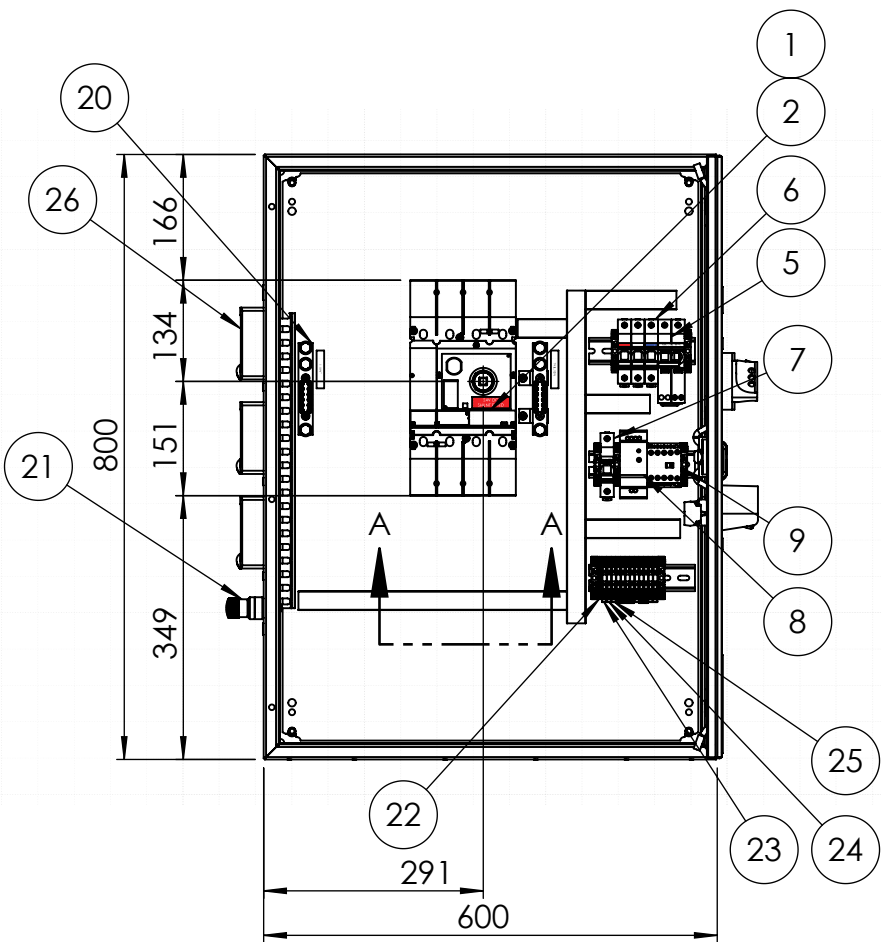
Appendix A - Drawings

Medical Imaging Distribution Boards

Sheet 1	Electrical Schematic
Sheet 2	General Arrangement
Sheet 3	Additional Views

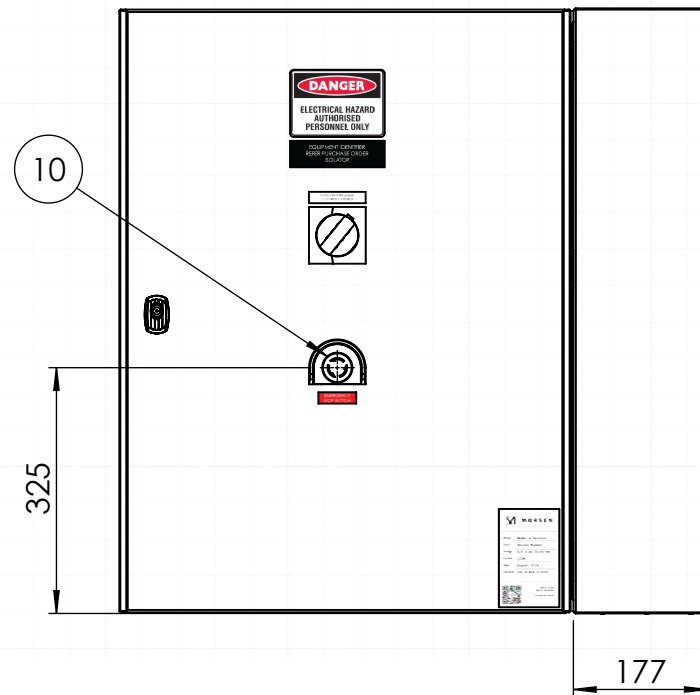


 MORSEN			Morsen Pty Ltd abn 97 153 873 093 www.morsen.com.au			TITLE: Medical Imaging Distribution Boards Single Compartment One Isolator Electrical Schematic		
DRAWN	MW	5/06/2025	CHECKED	DvD	5/06/2025	Model SL1-4125-WRNS		
DS-A	5/06/2025	For Approval				Version E		Dwg Rev DS-A
REV	DATE	DESCRIPTION				SCALE:1:1 A4		SHEET 1 OF 3



FRONT VIEW

Door Open

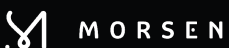


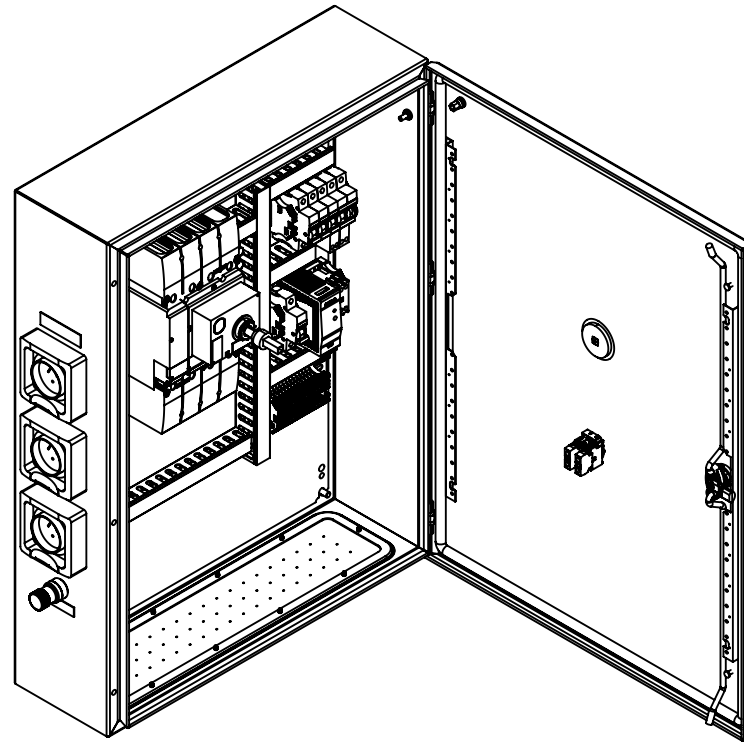
RIGHT SIDE

ITEM	NAME	DESCRIPTION	QTY
1	4-Pole Circuit Breaker	ComPacT NSX160F, 4-Pole, 160A, 36kA/415VAC	1
2	4-Pole Trip Unit	Micrologic Vigi 4.2 160A with Earth Leakage Protection	1
5	RCBO Acti9	Acti9, iC60H2 RCBO, 2P, 20A, 30mA, A type, 10000A	1
6	Miniature Circuit Breaker	Acti9, Acti9 iC60N Disbo, 1P, 10A, C curve, 6000A (IEC/EN 60898-1), 10kA	3
7	Miniature Circuit Breaker	Acti9, Acti9 iC60N Disbo, 1P, 2A, C curve, 6000A (IEC/EN 60898-1), 10kA	1
8	Power Supply 24V DC	PRO BAS Switched Mode 60W 24V 2.5A	1
9	Contactor 24V	Contactor TeSys K 24V DC	1
10	Emergency Stop Pushbutton	Mushroom Pushbutton 40mm Plastic Rotate to Unlatch	1
20	Earth Neutral Bar	6-Pole 165A	2
21	Earth Stud	Medilec Equipotential	1
22	Protective Earth Terminal Block	Protective Earth, Standard feed-through, Screw connection, 4mm ² , 800V, 480A Short-Time Current, Green and Yellow	1
23	Terminal Block	Standard feed-through, Screw connection, 4mm ² , 32A 800V, Red	1
24	Terminal Block	Standard feed-through, Screw connection, 4mm ² , 32A 800V, Black	1
25	Terminal Block	Standard feed-through, Screw connection, 4mm ² , 32A 800V, Dark Beige	10
26	Socket Outlet 10A Round Earth	10Amp, 3 Pin, Round Earth Pin AS3112	3

NOTES

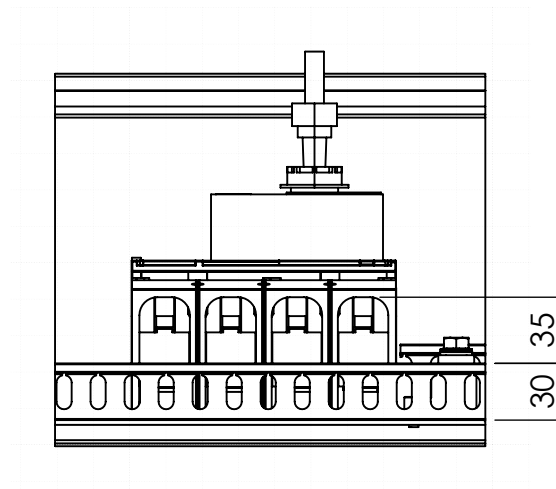
1. Dimensions for component positions are approximate and subject to change without notice

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ISOMETRIC VIEW

Left-Handed Door



SECTION A-A
SCALE 1 : 4

 MORSEN Morsen Pty Ltd abn 97 153 873 093 www.morsen.com.au						TITLE: Medical Imaging Distribution Boards Single Compartment One Isolator Additional Views			
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DS-A	5/06/2025	For Approval				SCALE:1:10 A3		Dwg Rev DS-A	
REV	DATE	DESCRIPTION				SHEET 3 OF 3			