

Product Datasheet

Medical Imaging Distribution Boards

Model	SR1-4125-WRNS-D
Description	125 Amps, 4 RCD-Protected Poles, with Warning Lights Circuit and Emergency Power Off. Right-Handed Door. Enclosure 700mm high x 500mm wide x 250mm 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

D o c	MIDB-001-016			
D e s c	Datasheet - Medical Imaging Distribution Boards			
M o d e l	SR1-4125-WRNS-D			
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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	700 high x 500 wide x 250 deep
Weight	28kg
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

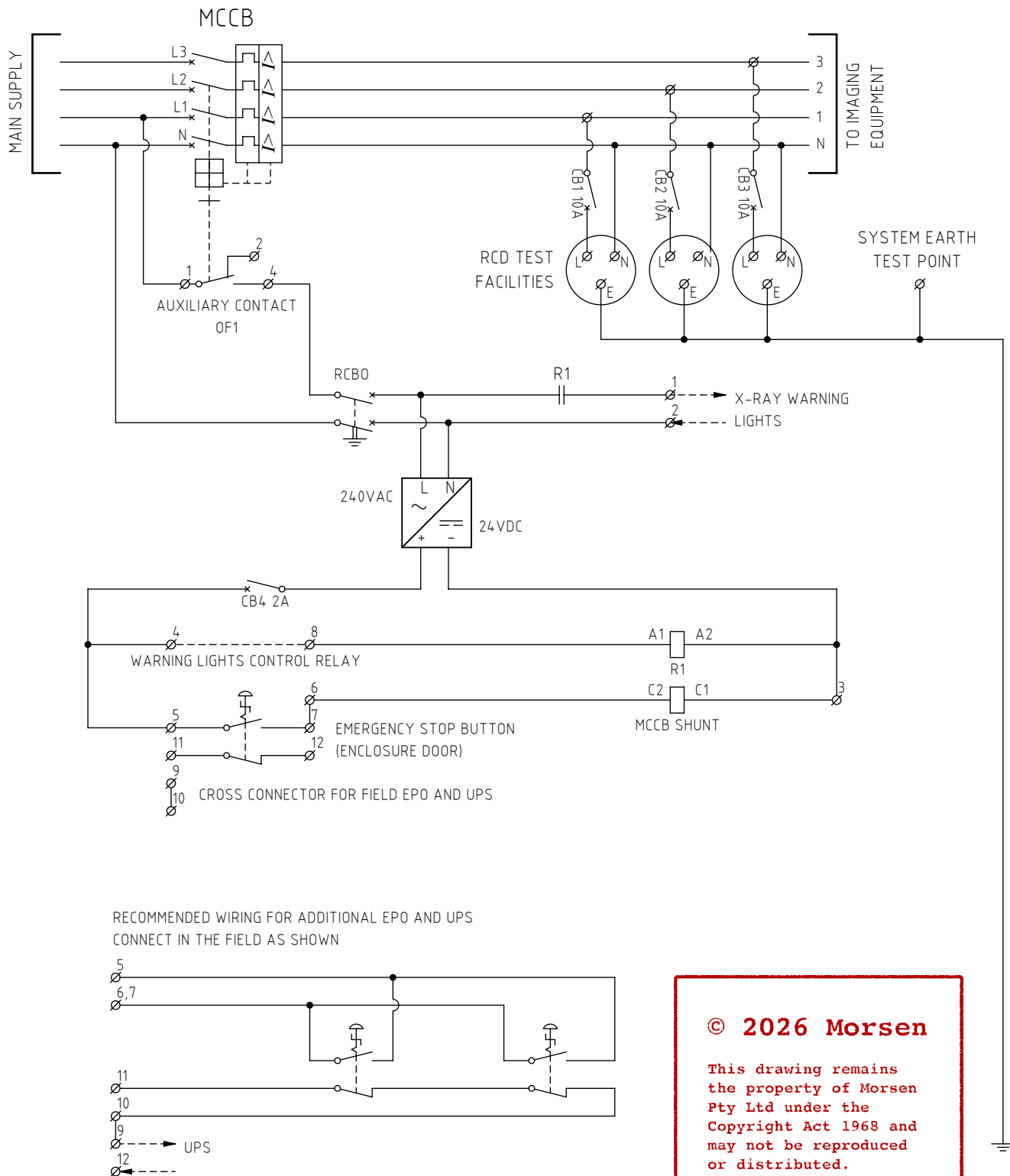
Short Circuit Protective Device

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
Morsen Pty Ltd. ABN 97 153 873 093 https://www.morsen.com.au enquiries@morsen.com.au	

Appendix A - Drawings

Medical Imaging Distribution Boards

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



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

DRAWN MW 23/01/2026 CHECKED DvD 23/01/2026

DS-A 23/01/2026 For Datasheet

REV DATE DESCRIPTION

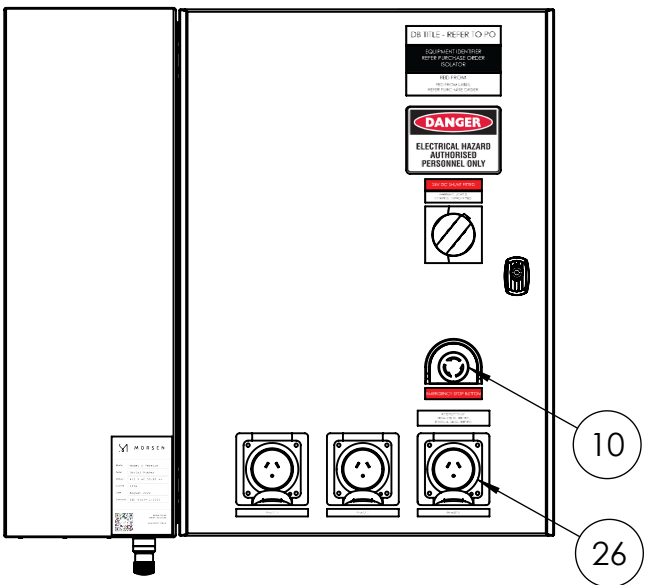
Model
SR1-4125-WRNS

Version
D

Dwg Rev
DS-A

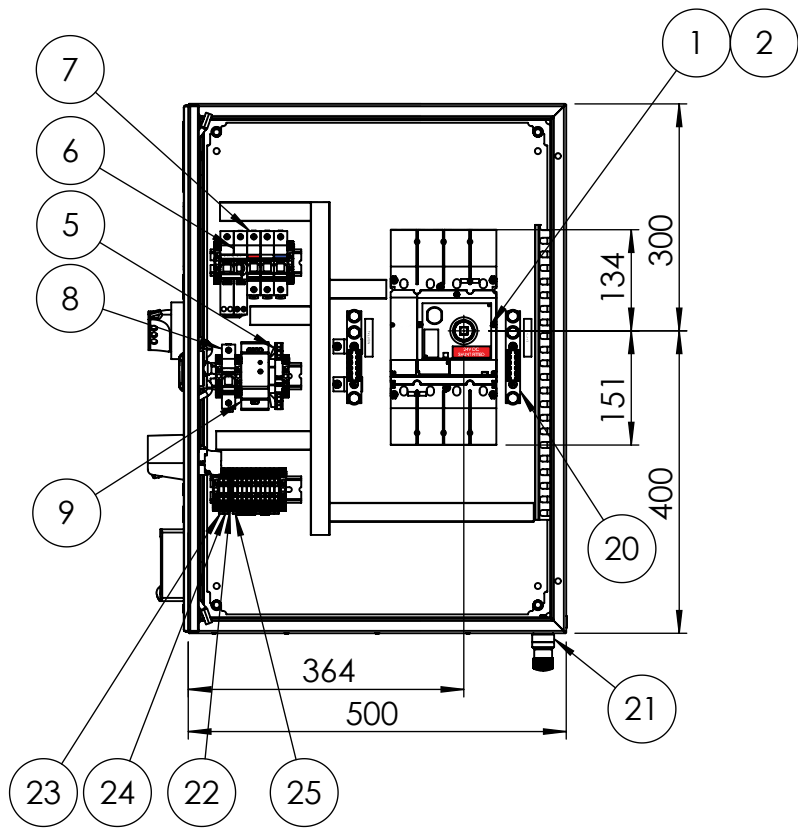
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SHEET 1 OF 3



LEFT VIEW

Door Open



FRONT VIEW

Door Open


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	Solid State Relay	Harmony 12A, Zero voltage switching, Input 4-32V DC, Output 24-280V AC	1
6	RCBO Acti9	Acti9, iC60H2 RCBO, 2P, 20A, 30mA, A type, 10000A	1
7	Miniature Circuit Breaker	Acti9, Acti9 iC60N Disbo, 1P, 10A, C curve, 10kA	3
8	Miniature Circuit Breaker	Acti9, Acti9 iC60N Disbo, 1P, 2A, C curve, 10kA	1
9	Power Supply 24V DC	PRO BAS Switched Mode 60W 24V 2.5A	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

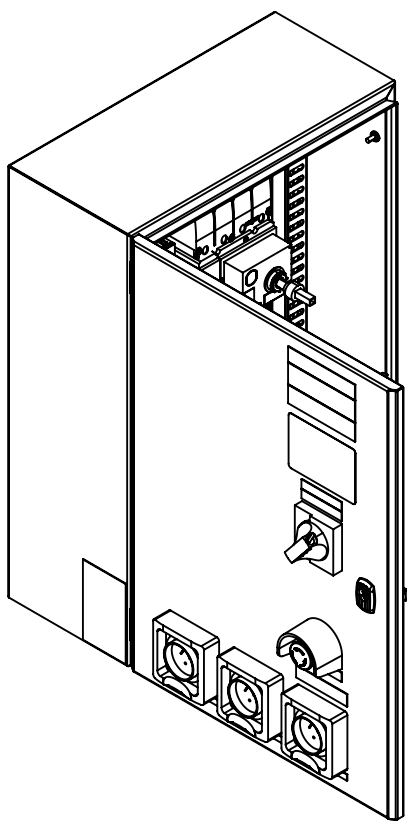
NOTES
1. Dimensions for component positions are approximate and subject to change without notice

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DRAWN	MW	23/01/2026	CHECKED	DvD	23/01/2026					
						Model SR1-4125-WRNS		Version D		Dwg Rev DS-A
DS-A	23/01/2026	For Datasheet				SCALE:1:10 A3		SHEET 2 OF 3		
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ISOMETRIC VIEW

Right-Handed Door

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DRAWN	MW	23/01/2026	CHECKED	DvD	23/01/2026									
DS-A	23/01/2026	For Datasheet				Model SR1-4125-WRNS		Version D		Dwg Rev DS-A				
REV	DATE	DESCRIPTION									SCALE:1:10 A3		SHEET 3 OF 3	