

Product Datasheet

Medical Imaging Distribution Boards

Model	SL1-3160-WNNS-A
Description	160 Amps, 3 Poles, with Warning Lights Circuit and Emergency Power Off
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)	160 A
I_{nc} (Current – Main Circuit)	160 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	600 high x 500 wide x 250 deep
Weight	23kg
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

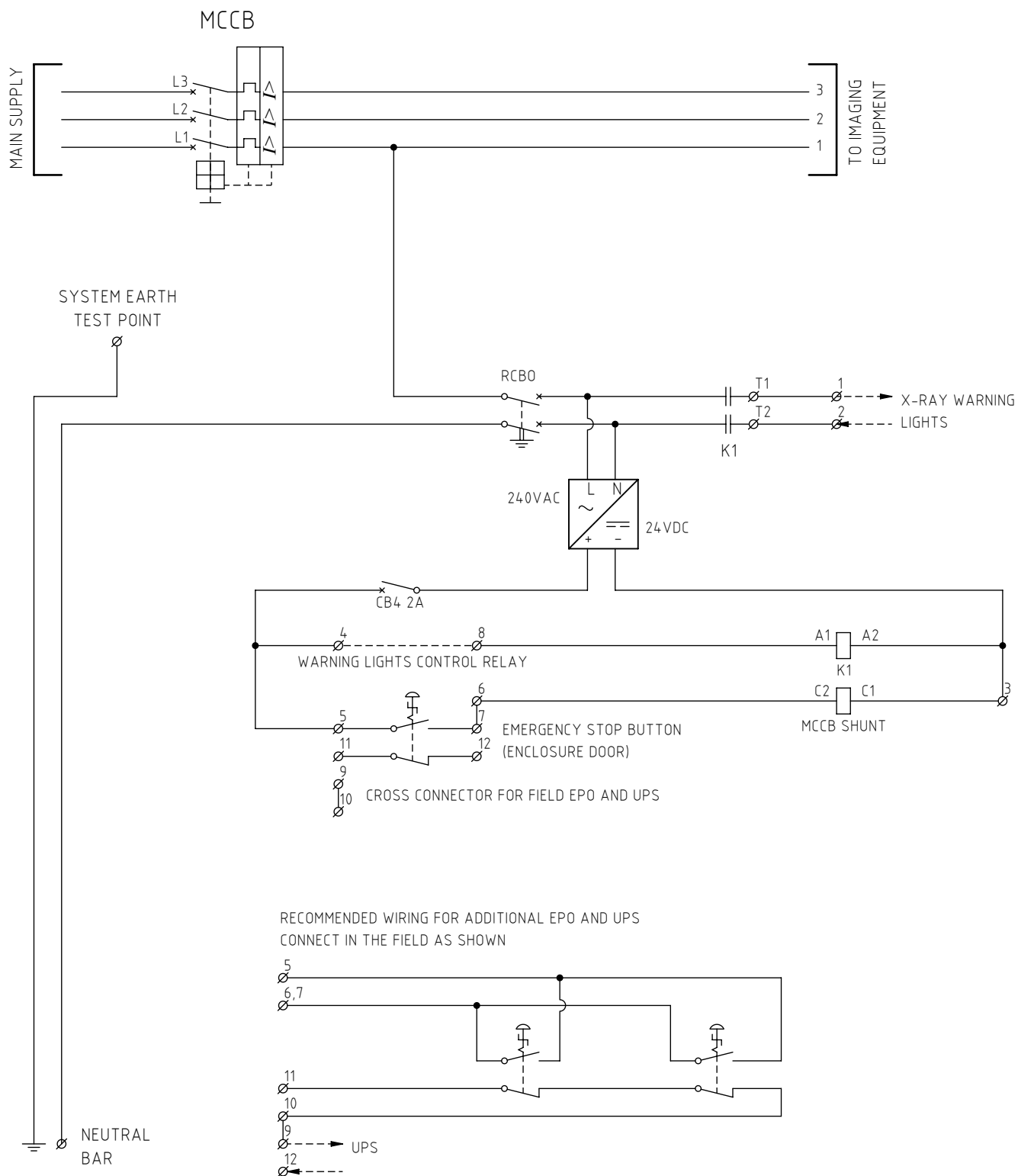
Short Circuit Protective Device

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, 250A	Adjustable short-time protection, 1.5-10xl, with fixed delay. Fixed instantaneous protection: cutoff current $I_i = 3,000A$
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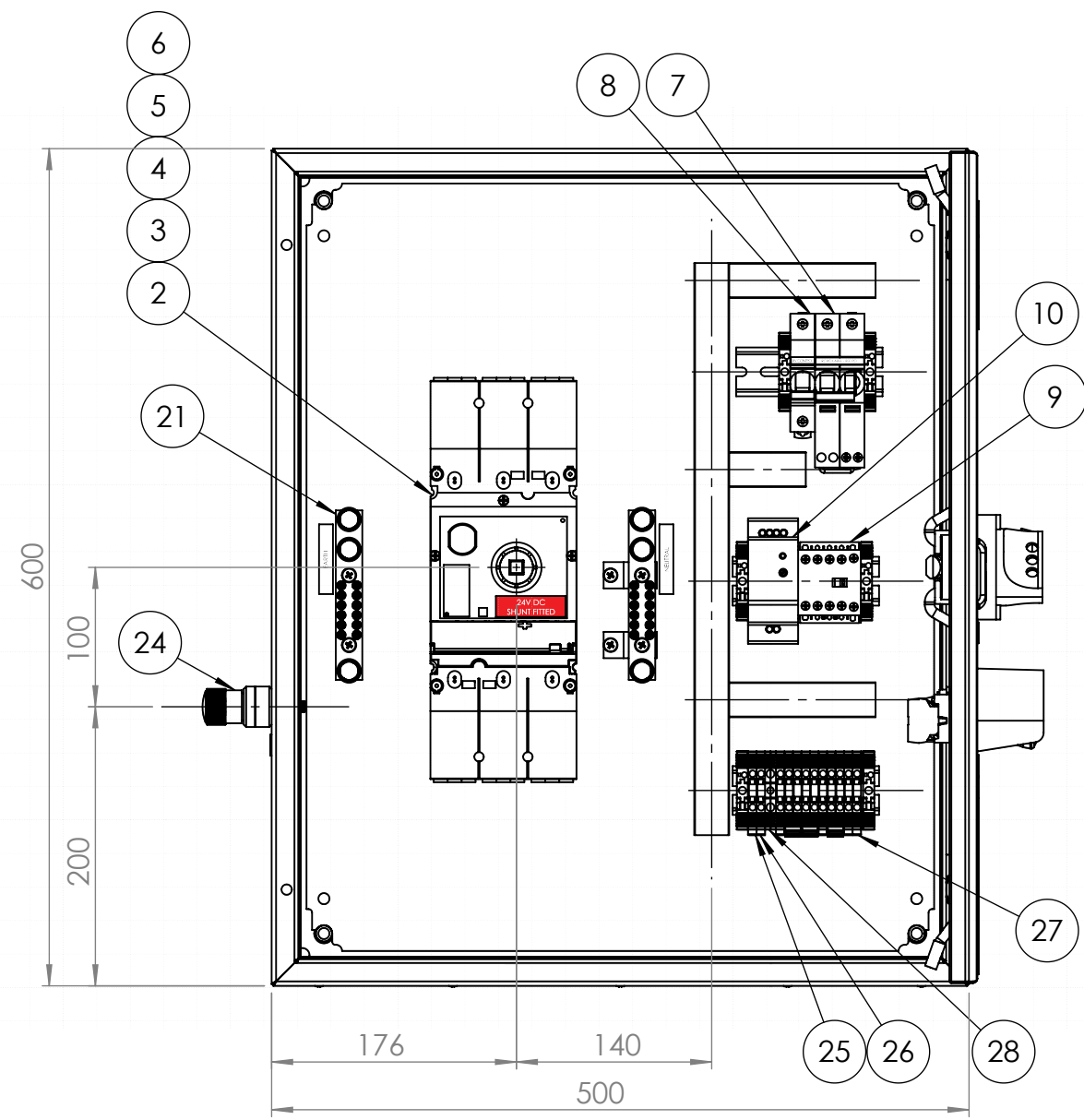
Appendix A - Drawings

Medical Imaging Distribution Boards

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



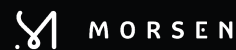
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DRAWN	MW	28/07/2025	CHECKED	DvD	28/07/2025	Model SL1-3160-WNNS		
						Version A		
						Dwg Rev DS-A		
DS-A	28/07/2025	Issued For Approval				SCALE: 1:1 A4		
REV	DATE	DESCRIPTION				SHEET 1 OF 3		



FRONT VIEW

Door Open

ITEM	NAME	DESCRIPTION	QTY
2	3-Pole Circuit Breaker	ComPacT NSX250F, 3-Pole, 250A, 36kA/415VAC	1
4	3-Pole Trip Unit	Micrologic 2.2 250A Electronic Basic Protections	1
7	RCBO Acti9	Acti9, iC60H2 RCBO, 2P, 20A, 30mA, A type, 10000A	1
8	Miniature Circuit Breaker	Acti9, Acti9 iC60N Disbo, 1P, 2A, C curve, 10kA	1
9	Contactor 24V	Contactor TeSys K 24V DC	1
10	Power Supply 24V DC	PRO BAS Switched Mode 60W 24V 2.5A	1
11	Emergency Stop Pushbutton	Mushroom Pushbutton 40mm Plastic Rotate to Unlatch	1
21	Earth Neutral Bar	6-Pole 165A	2
24	Earth Stud	Medilec Equipotential	1
25	Terminal Block	Standard feed-through, Screw connection, 4mm ² , 32A 800V, Red	1
26	Terminal Block	Standard feed-through, Screw connection, 4mm ² , 32A 800V, Black	1
27	Terminal Block	Standard feed-through, Screw connection, 4mm ² , 32A 800V, Dark Beige	10
28	Protective Earth Terminal 6mm	Protective Earth, Standard feed-through, Screw connection, 6mm ² , 800V, 480A Short-Time Current, Green and Yellow	1



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

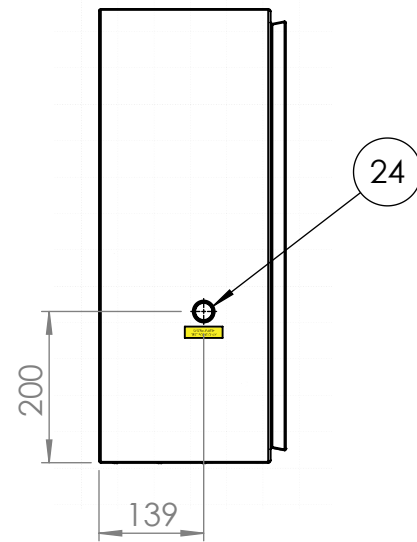
Model
SL1-3160-WNNS

Version
A

Dwg Rev
DS-A

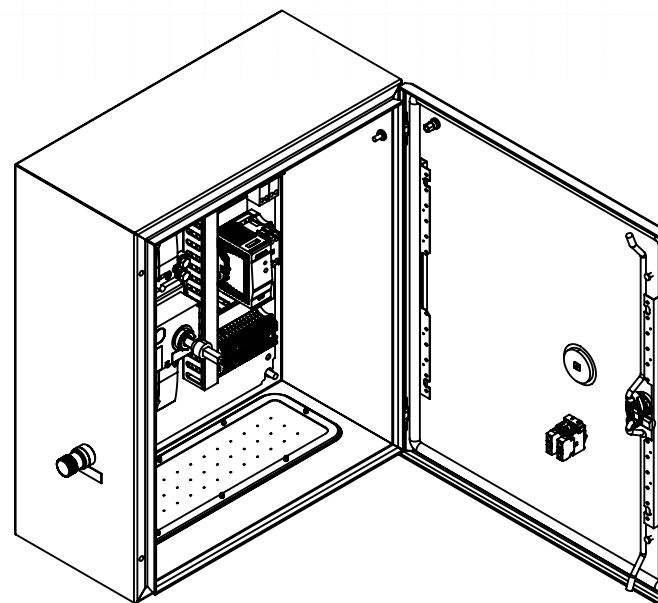
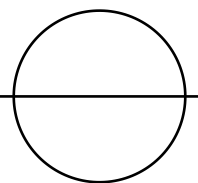
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SHEET 2 OF 3



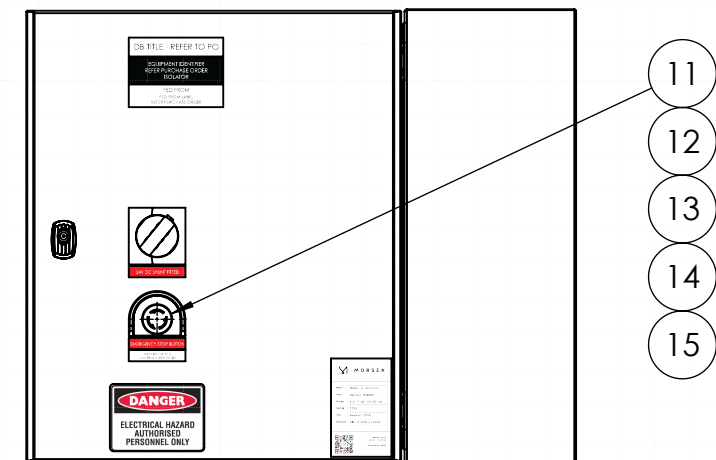
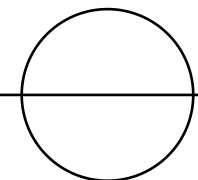
LEFT SIDE

Door Not Shown



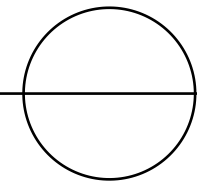
ISOMETRIC

Left-Handed Door



RIGHT SIDE

Door Open



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						Model SL1-3160-WNNS		
						Version A		
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REV	DATE	DESCRIPTION				SCALE:1:10 A3 SHEET 3 OF 3		