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Product Datasheet

Medical Imaging Distribution Boards

Model	SL1-3160-WNNS-D
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

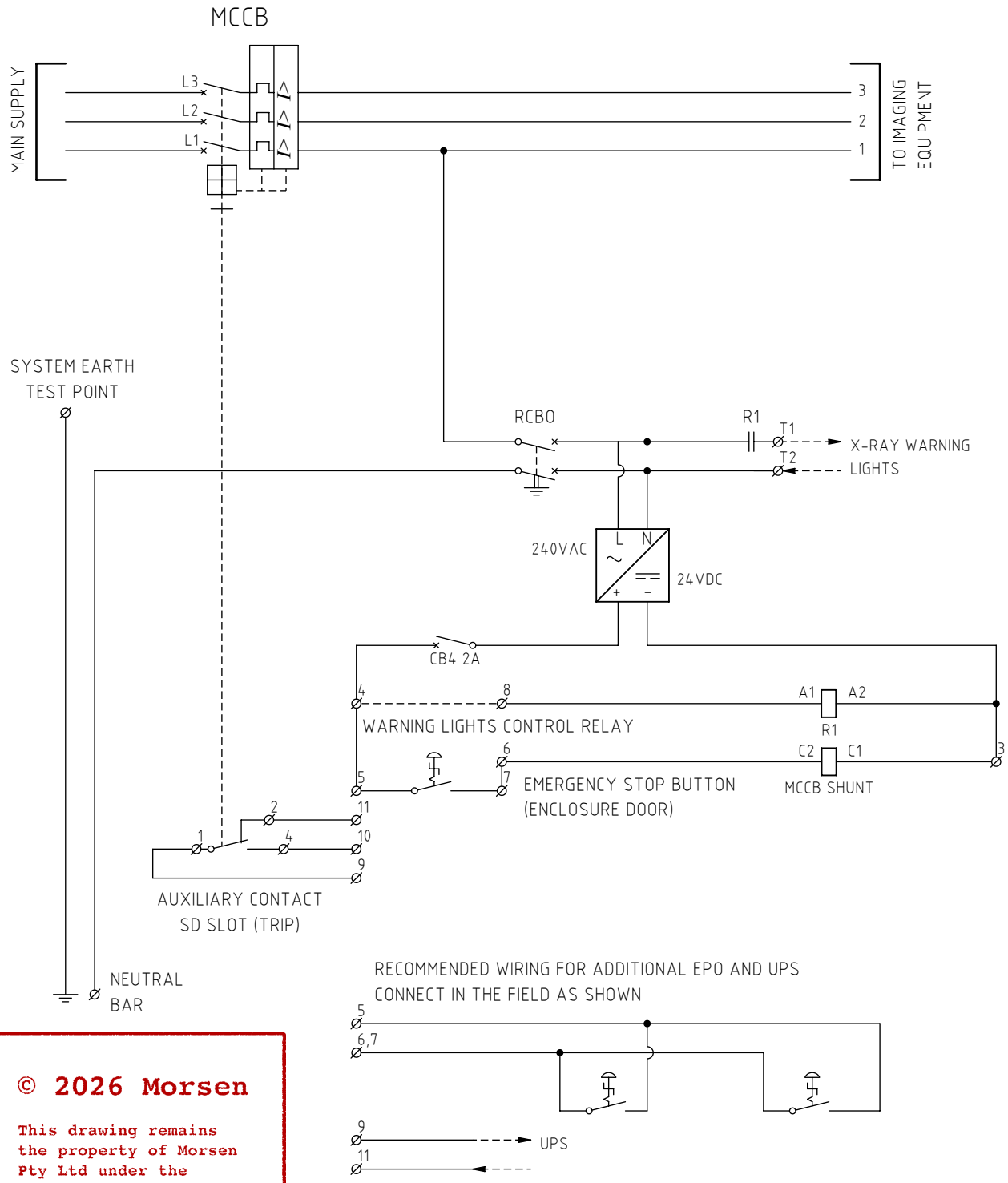
Mechanism	Protection Description
Schneider ComPacT NSX Moulded Case Circuit Breaker	Reflex (mechanical) tripping for high short-circuit currents, with a maximum break time of 10ms.
Micrologic 2.2, 250A	Adjustable short-time protection, 1.5-10xI_r, with fixed delay. Fixed instantaneous protection: cutoff 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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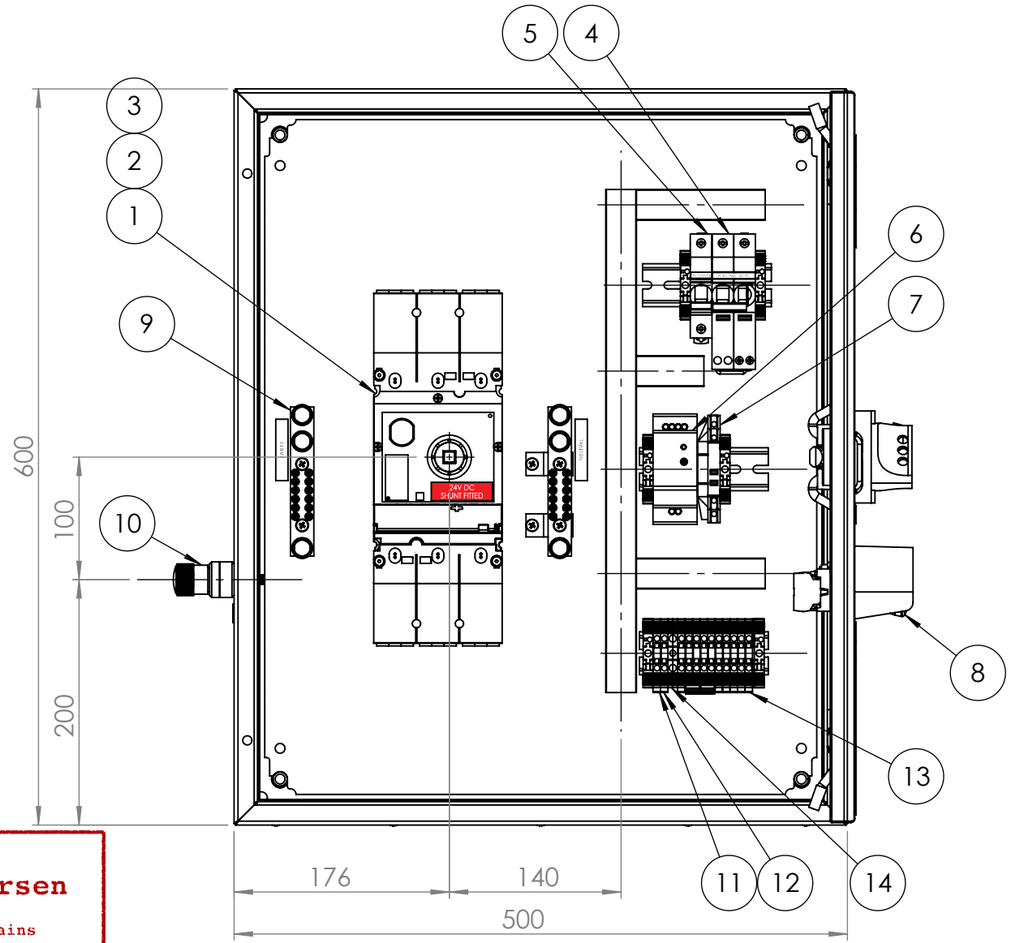
DRAWN	MW	19/10/2026	CHECKED	DvD	19/10/2026

REV	DATE	DESCRIPTION
DS-A	19/10/2026	Datasheet Version

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

Model	Version	Dwg Rev
SL1-3160-WNNS	D	DS-A

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ITEM	NAME	DESCRIPTION	QTY.
1	3-Pole Circuit Breaker	ComPacT NSX250F, 3-Pole, 250A, 36kA/415VAC	1
2	3-Pole Trip Unit	Micrologic 2.2 250A Electronic Basic Protections	1
3	Standard Auxiliary Contact	Circuit Breaker Status SD, 1 changeover contact type, screwless spring terminals	1
4	RCBO Acti9	Acti9, iC60H2 RCBO, 2P, 20A, 30mA, A type, 10000A	1
5	Miniature Circuit Breaker	Acti9, Acti9 iC60N Disbo, 1P, 2A, C curve, 10kA	1
6	Power Supply 24V DC	PRO BAS Switched Mode 60W 24V 2.5A	1
7	Solid State Relay	Harmony 12A, Zero voltage switching, Input 4-32V DC, Output 24-280V AC	1
8	Emergency Stop Pushbutton	Mushroom Pushbutton 40mm Plastic Rotate to Unlatch	1
9	Earth Neutral Bar	6-Pole 165A	2
10	Earth Stud	Medilec Equipotential	1
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	Terminal Block	Standard feed-through, Screw connection, 4mm2, 32A 800V, Dark Beige	10
14	Protective Earth Terminal 6mm	Protective Earth, Standard feed-through, Screw connection, 6mm2, 800V, 480A Short-Time Current, Green and Yellow	1

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FRONT VIEW

Door Open

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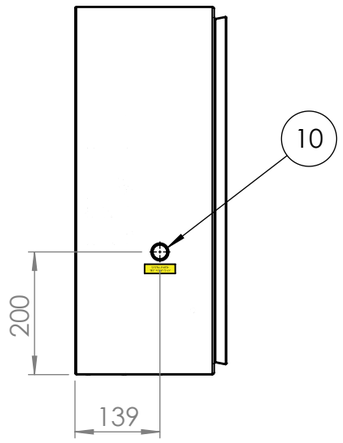
DRAWN	MW	19/10/2026	CHECKED	DvD	19/10/2026

REV	DATE	DESCRIPTION
DS-A	19/10/2026	Datasheet Version

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

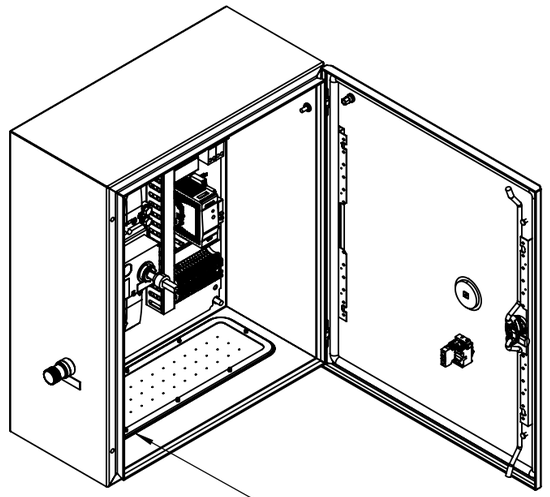
Model	Version	Dwg Rev
SL1-3160-WNNS	D	DS-A

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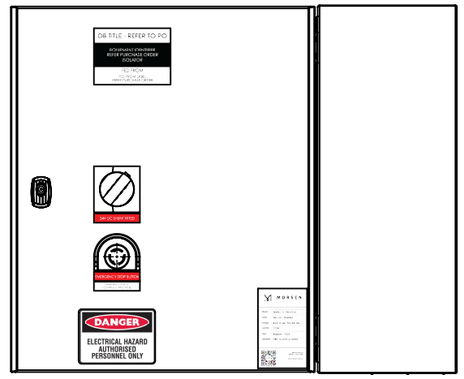
LEFT SIDE

Door Not Shown



ISOMETRIC

Left-Handed Door



RIGHT SIDE

Door Open

Notes:

1. Dimensions given for component positions are approximate and subject to change without notice.
2. Labels shown here are indicative. Labels will be modified according to customer and site requirements and may be different to those in this drawing.

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DRAWN	MW	19/10/2026	CHECKED	DvD	19/10/2026

REV	DATE	DESCRIPTION
DS-A	19/10/2026	Datasheet Version

TITLE: Medical Imaging Distribution Boards
Single Compartment One Isolator
Additional Views

Model	Version	Dwg Rev
SL1-3160-WNNS	D	DS-A

SCALE:1:10 A3 SHEET 3 OF 3