

Product Datasheet

Medical Imaging Distribution Boards

Model	SL1-3125-WNNS-F
Description	125 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)	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

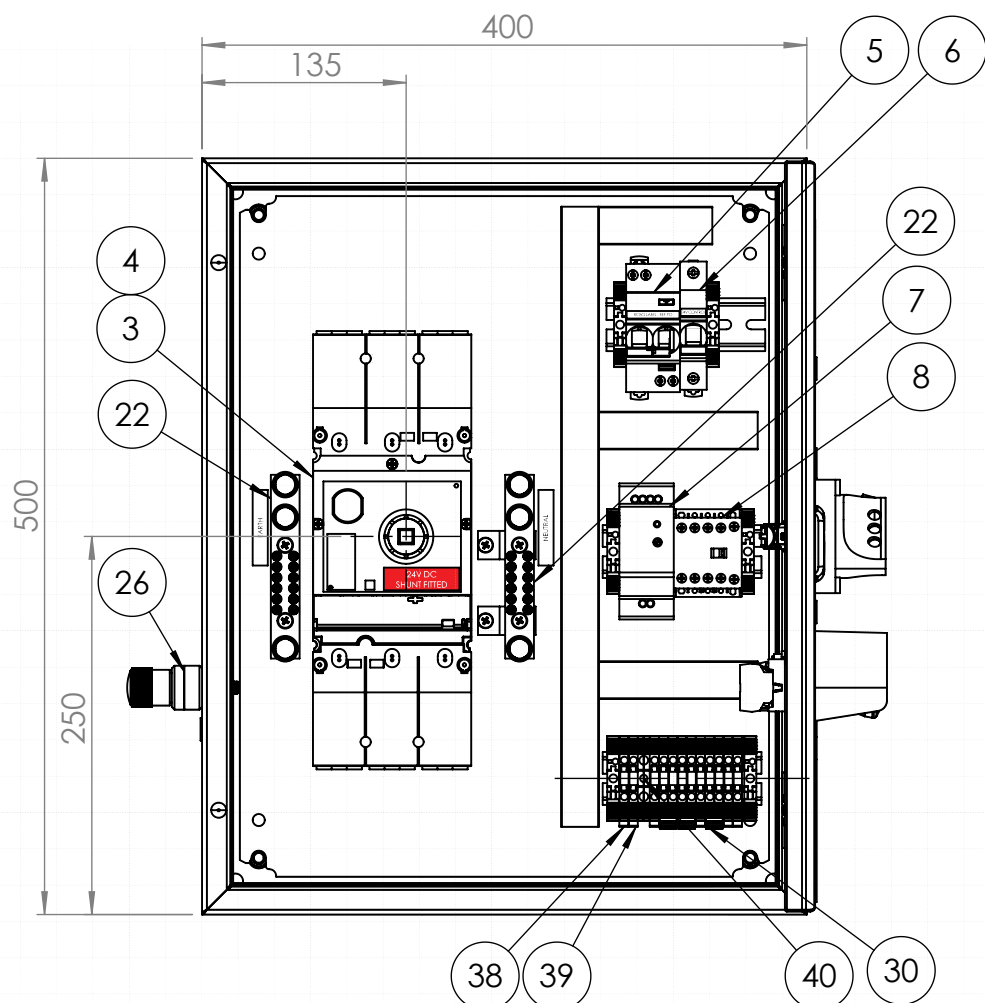
Mechanism	Protection Description
Schneider ComPacT NSX Moulded Case Circuit Breaker	Reflex (mechanical) tripping for high short-circuit currents, with a maximum break time of 10ms.
Micrologic 2.2, 160A	Adjustable short-time protection, 1.5-10xl, with fixed delay. Fixed instantaneous protection: cutoff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

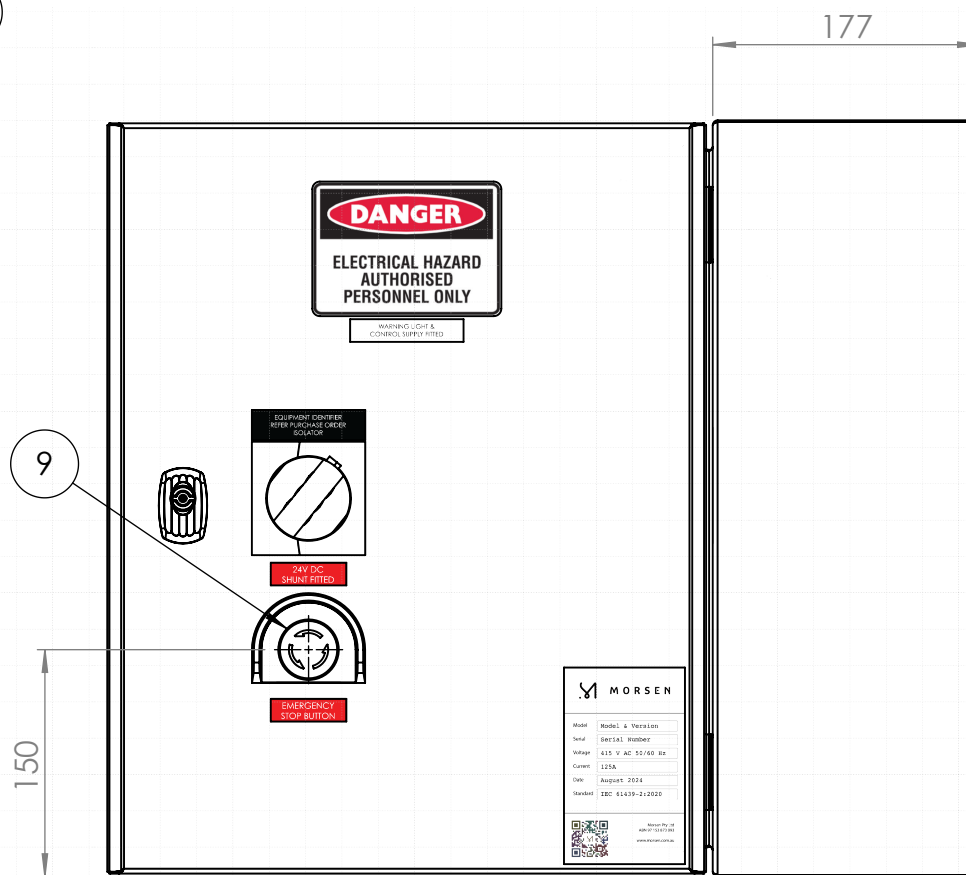
Sheet 1	Electrical Schematic
Sheet 2	General Arrangement





FRONT VIEW

Door Open



RIGHT SIDE


ITEM	NAME	DESCRIPTION	QTY
3	3-Pole Circuit Breaker	ComPacT NSX160F, 3-Pole, 160A, 36kA/415VAC	1
4	3-Pole Trip Unit	Micrologic 2.2 160A Electronic Basic Protections	1
5	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
6	Miniature Circuit Breaker	Acti9, Acti9 iC60N Disbo, 1P, 2A, C curve, 6000A (IEC/EN 60898-1), 10kA	1
7	Power Supply 24V DC	PRO BAS Switched Mode 60W 24V 2.5A	1
8	Contactor 24V	Contactor TeSys K 24V DC	1
9	Emergency Stop Pushbutton	Mushroom Pushbutton 40mm Plastic Rotate to Unlatch	1
22	Earth Neutral Bar	6-Pole 165A	2
26	Earth Stud	Medilec Equipotential	1
30	Terminal Block	Standard feed-through, Screw connection, 4mm ² , 32A 800V, Dark Beige	10
38	Terminal Block	Standard feed-through, Screw connection, 4mm ² , 32A 800V, Red	1
39	Terminal Block	Standard feed-through, Screw connection, 4mm ² , 32A 800V, Black	1
40	Protective Earth Terminal 6mm	Protective Earth, Standard feed-through, Screw connection, 6mm ² , 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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<div> M O R S E N</div> <div>Morsen Pty Ltd abn 97 153 873 093 www.morsen.com.au</div>						TITLE: Medical Imaging Distribution Boards Single Compartment One Isolator General Arrangement					
DRAWN	MW	8/04/2025	CHECKED	DvD	8/04/2025						
DS-B	8/04/2025	Terminal 9-10 Connector Added				Model SL1-3125-WNNS		Version F			Dwg Rev DS-B
DS-A	21/01/2025	DATASHEET VERSION									
REV	DATE	DESCRIPTION				SCALE:1:5 A3		SHEET 2 OF 2			