

# Product Datasheet

## Medical Imaging Distribution Boards

Model	SL1-3160-WNNS-B
Description	160 Amps, 3 Poles, with Warning Lights Circuit and Emergency Power Off
Trip Unit	Siemens TM240
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

**D o c** MIDB-001-017

**D e s c** Datasheet - Medical Imaging Distribution Boards

**M o d e l** SL1-3160-WNNS-B

**R e v**

A

12 December, 2025

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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 600 wide x 200 deep
Weight	25kg
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
Ovvovoltage Category (IEC 60364-4-44:2007)	Category III

## Short Circuit Protective Device

Mechanism	Protection Description
Siemens TM240	36kA Breaking capacity at 415V

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<https://www.morsen.com.au>

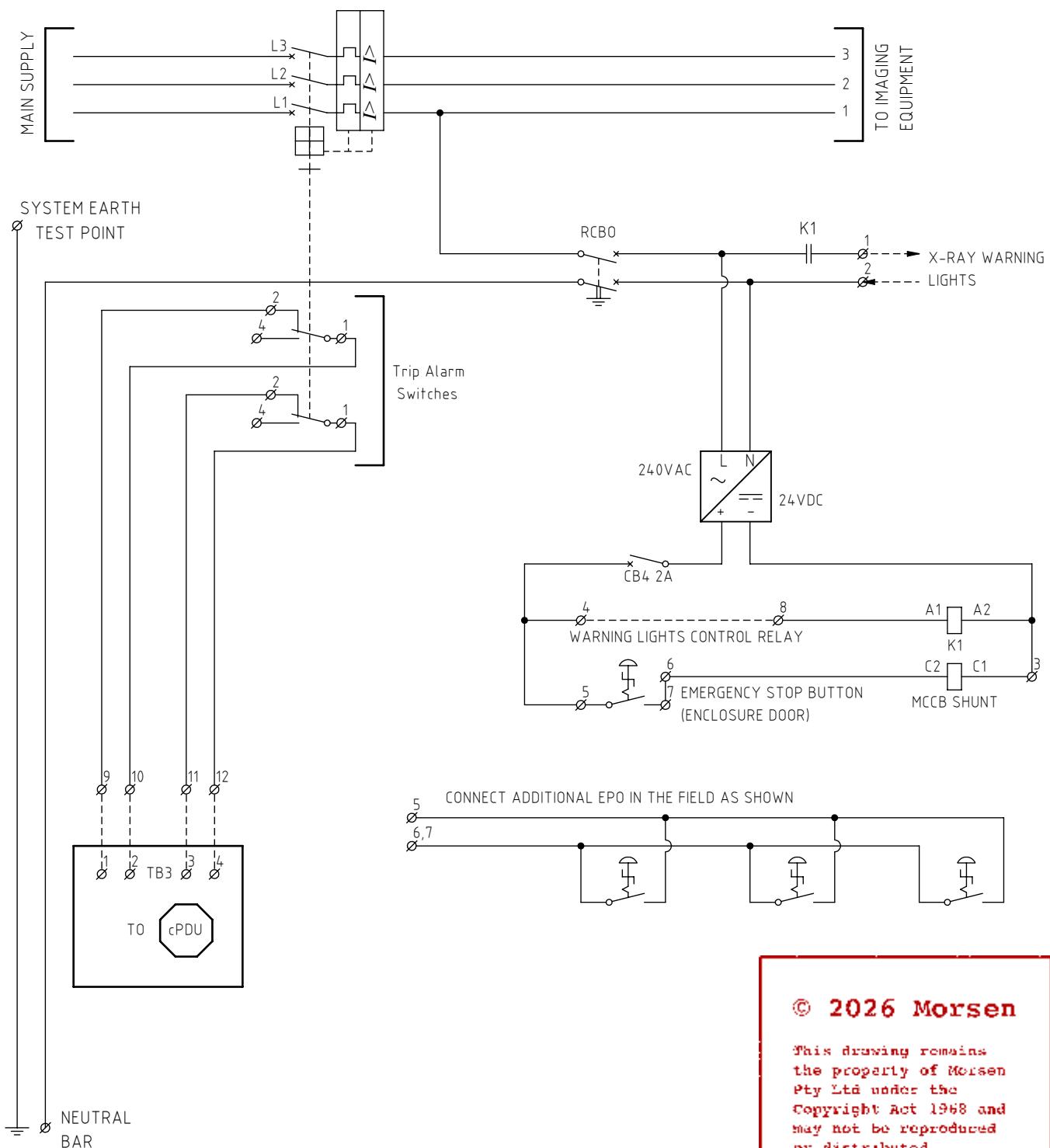
[enquiries@morsen.com.au](mailto:enquiries@morsen.com.au)

# Appendix A - Drawings

## Medical Imaging Distribution Boards

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

## MCCB

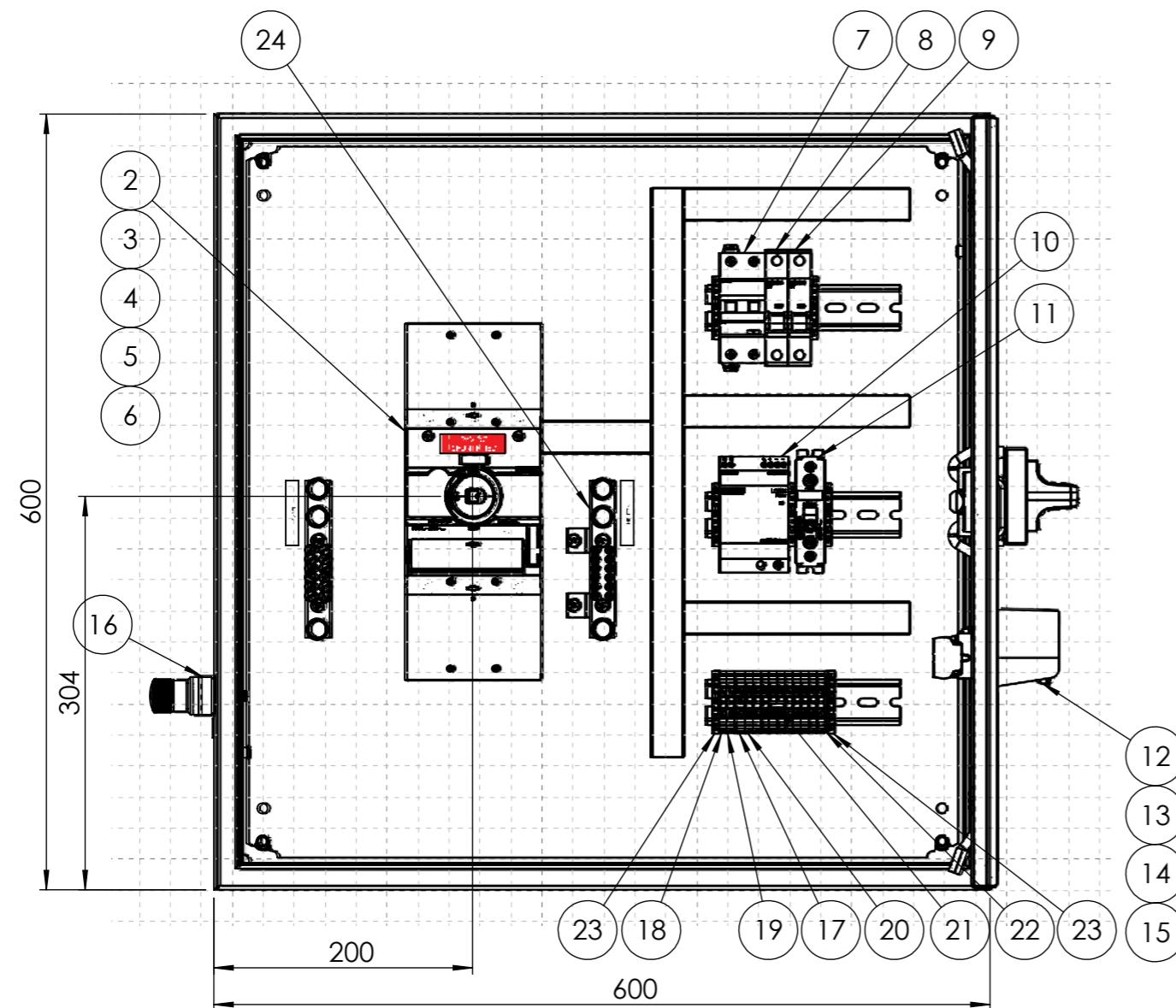


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REV	DATE	DESCRIPTION			



FRONT VIEW

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REV DATE DESCRIPTION

ITEM	NAME	DESCRIPTION	QTY.
1	Enclosure Std		1
2	MCCB 250A 3P	3VA1 IEC Frame Class S Icu=36 kA @ 415 V 3-Pole Line Protection TM240 ATAM In=200 A	1
3	Rotary Handle 3VA12	Door Mounted For 3VA12 IP65 with Interlock Accessory	1
4	Shunt Trip Left	24V DC Universal Release For 3VA1 and 3VA20-26	1
5	Trip Alarm Switch	Changeover Contacts Type HQ (7 mm) For 3VA1 and 3VA20-26	2
6	Extended Terminals Cover 250A 3P	3-Pole For 3VA12	2
7	RCBO 2P	10 kA 2P Type A 30 mA C-Char In 20A Un 230V	1
8	Miniature Circuit Breaker	230/400 V 10kA 1P C 10A	1
9	Miniature Circuit Breaker	230/400 V 10kA 1P C 2A	1
10	Power Supply	LOGO!POWER 24V 2.5A Input 100-240VAC Output 24VDC 2.5 A	1
11	Solid State Contactor	Solid State 1P 3RF2 AC 51 / 20 A 24-230V / 24VDC	1
12	Emergency Stop Pushbutton	Mushroom Pushbutton 40mm Plastic Rotate to Unlatch	1
13	E-Stop Protective Collar	Yellow, Plastic	1
14	E-Stop NO Contact	NO Contact for E-Stop, Screw Terminals	1
15	E-Stop Universal Holder	Universal Holder for E-Stop Pushbutton	1
16	Earth Stud	Medilec Equipotential	1
17	Screw Terminal PE 6mm	PE Terminal 6mm Green and Yellow	1
18	Screw Terminal 4mm	Through Terminal 4mm Red	1
19	Screw Terminal 4mm	Through Terminal 4mm Black	1
20	Screw Terminal 4mm	Through Terminal 4mm Gray	10
21	Connecting Comb 2P	2P For 6.2mm Terminals	1
24	Earth Neutral Bar	6-Pole 165A	1

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

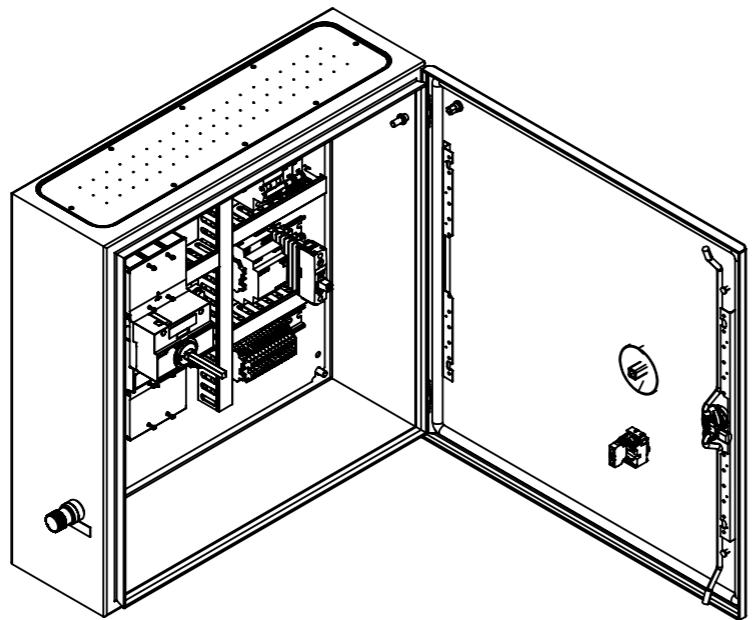
Model  
SL1-3160-WNNS

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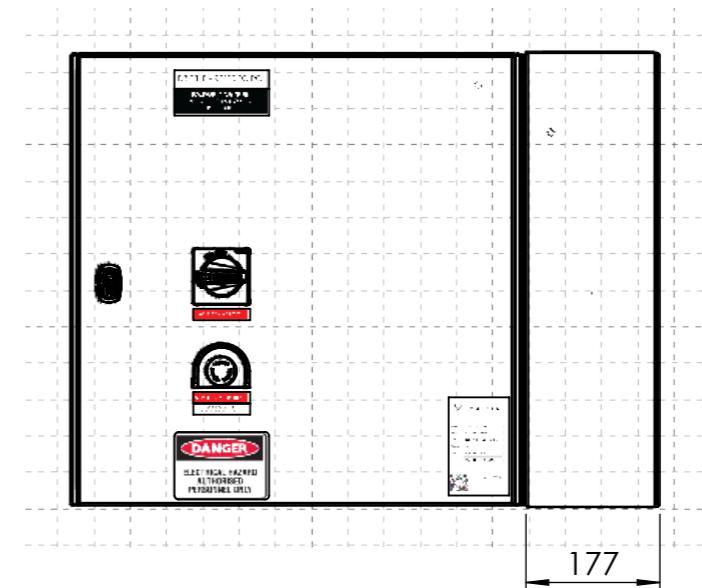
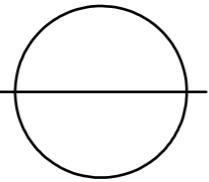
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SHEET 2 OF 3



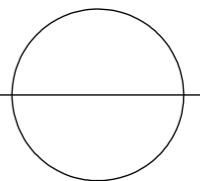
ISOMETRIC

Left-Handed Door



RIGHT SIDE

Door Open



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REV DATE DESCRIPTION

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

Model  
SL1-3160-WNNS

Version  
B

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DS-A

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