

SURF ARC FLASH LABEL DESIGN REQUIREMENTS

GENERAL REQUIREMENTS:

- Label designs shall conform to the latest NFPA 70E and ANSI Z535 standards.
- Labels placed on equipment installed outdoors shall be UV resistant and have sufficient durability to withstand the environment involved.
- Label dimensions shall be 4”H x 6”W. For small equipment where a 4”H x 6”W label would be too large for the door or would obstruct other important labels, label dimensions may be reduced to a size of 2”H x 3”W.

PREFERRED



WARNING

**Arc Flash and Shock Risk
Appropriate PPE Required**

ARC FLASH PROTECTION		SHOCK PROTECTION	
System Voltage	480 VAC	Limited Approach Boundary	42 in
Arc Flash Boundary	94 in	Restricted Approach	12 in
Incident Energy	16.7 cal/cm²	Glove Class	00
Working Dist. Boundary	18 in		
Site PPE Category	4		

Bus Device: BUS-0002
Protected By: DRYER MAIN BRKR
Date Performed: Jul 16, 2020

ALTERNATE



WARNING

**Arc Flash and Shock Risk
Appropriate PPE Required**

ARC FLASH PROTECTION		SHOCK PROTECTION	
System Voltage	480 VAC	Limited Approach Boundary	42 in
Arc Flash Boundary	94 in	Restricted Approach	12 in
Incident Energy	16.7 cal/cm²	Glove Class	00
Working Dist. Boundary	18 in		
Site PPE Category	4		

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SIGNAL WORD PANEL:

Labels with **WARNING** titles shall be used for equipment where the calculated incident energies are less than or equal to 40 cal/cm².

- The WARNING signal word shall be Sans Serif typeface.
- The WARNING title shall be black letters on an orange background.

Labels with **DANGER** titles shall be used where the where the calculated incident energies are greater than 40 cal/cm².

- The DANGER title text shall be Sans Serif typeface.
- The DANGER signal word panel shall be white letters on a red background.

The “safety hazard alert” symbol () shall be included on the signal word panel and be placed to the left of the signal word.

Symbols shall have one of the following color schemes with (a) being the most preferred:

- (a) Black with a yellow background inside the symbol
- (b) Black on a white background inside the symbol

HAZARD WARNING HEADINGS & SAFETY SYMBOLS:

The headings “Arc Flash and Shock Risk” and “Appropriate PPE Required” shall be included.

The “arc flash” hazard symbol () shall be used on the label to signal that there are arc blast/flash hazards.

The text “ARC FLASH PROTECTION” shall be used as a subheading for the arc flash information section on the left side of the message panel.

The “shock hazard” symbol () shall be used on the label to signal that there are shock hazards present.

The text “SHOCK PROTECTION” shall be used as a subheading for the shock information section on the right side of the message panel.

Symbols shall have one of the following color schemes with (a) being the most preferred:

- (a) Black with a yellow background inside the symbol
- (b) Black on a white background inside the symbol

MESSAGE PANEL (See Page 2)

PREFERRED



DANGER

**Arc Flash and Shock Risk
Appropriate PPE Required**

ARC FLASH PROTECTION		SHOCK PROTECTION	
System Voltage	480 VAC	Limited Approach Boundary	42 in
Arc Flash Boundary	324 in	Restricted Approach	12 in
Incident Energy	43.8 cal/cm²	Glove Class	00
Working Dist. Boundary	18 in		
Site PPE Category	Unavailable		

Bus Device: BUS-SWBRD22
Protected By: XFMR SEC BRKR
Date Performed: Aug 24, 2020

ALTERNATE



DANGER

**Arc Flash and Shock Risk
Appropriate PPE Required**

ARC FLASH PROTECTION		SHOCK PROTECTION	
System Voltage	480 VAC	Limited Approach Boundary	42 in
Arc Flash Boundary	324 in	Restricted Approach	12 in
Incident Energy	43.8 cal/cm²	Glove Class	00
Working Dist. Boundary	18 in		
Site PPE Category	Unavailable		

Bus Device: BUS-SWBRD22
Protected By: XFMR SEC BRKR
Date Performed: Aug 24, 2020

SURF ARC FLASH LABEL DESIGN REQUIREMENTS (CONTINUED)

