

How to Read an Incident Energy Analysis Label



Label is based on calculations provided by IEEE 1584. It is recommended that all electrical equipment be locked out, tagged out and verified that zero energy is present before any servicing takes place. Only an Electrically Qualified Worker shall work on electrical equipment. PPE, Gloves and Insulated Tooling Shall be inspected before each use for proper condition. Gloves Shall be field tested before each use and dielectrically tested every six months by a third party NAIL accredited lab.

ARC FLASH PROTECTION INFORMATION

Orange header & the word "WARNING" tells you that an Arc Flash/Shock hazard is present and that PPE is required.

Working distance measured at 18 inches represents the minimum distance that your torso would be in relationship to the exposed live parts.

Arc Flash Protection Boundary (FPB) is defined as the distance at which a worker is exposed to 1.2 calories/cm² of incident energy or greater.

Glove Class is determined on the actual voltage present for the device.

PPE Level is the Clothing Class that identifies the Personal Protective Equipment that SHALL be worn according to the Table 130.7(C)(16) from NFPA 70E 2012

FLASH PROTECTION		SHOCK PROTECTION	
Flash Hazard at	18 inches	Shock Hazard with no cover	480 VAC
Flash Protection Boundary:	8 inches	Limited Approach	42 inches
Glove Class:	00	Restricted Approach	12 inches
Clothing Category:	Category 0	Prohibited Approach	1 inches
Long sleeve shirt, long pants, safety glasses, hearing protection, leather gloves		Date:	July 23, 2012

CPI 001 CHILLER

Prot. Device: PD 103195

Warning: Changes in equipment settings or system configurations will invalidate the calculated values & PPE requirements. All calculations assume that all equipment is in good working order and has been properly maintained. Contractor and affiliates assume no liability for equipment that has not been properly maintained and provide no warranty either expressed or implied regarding equipment condition as part of an Arc Flash Hazard Analysis.

Equipment name that the label is associated with and the protective device upstream that can be used to isolate the equipment.

SHOCK PROTECTION INFORMATION

FLASH PROTECTION		SHOCK PROTECTION	
Flash Hazard at	18 inches	Shock Hazard with no cover	480 VAC
Flash Protection Boundary:	8 inches	Limited Approach	42 inches
Glove Class:	00	Restricted Approach	12 inches
Clothing Category:	Category 0	Prohibited Approach	1 inches
Long sleeve shirt, long pants, safety glasses, hearing protection, leather gloves		Date:	July 23, 2012

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Shock Protection boundaries are based on the voltages of the energized equipment.

Shock Hazard with no cover, highest voltage present for the equipment.

Limited Approach: Qualified or Unqualified Persons – PPE Required
Unqualified Person accompanied by Qualified Person

Restricted Approach: Qualified Persons Only – PPE Required.

Prohibited Approach: Qualified Persons Only – PPE & Insulated Tooling Required.

Date the labeling was created. Review required when renovations are made and not to exceed five years.

Warning, that states if the system changes or if there is a maintenance lapse, the engineering findings are invalid.