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Project 4789182904

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REPORT

on

Industrial Control Panels - Component

STEGO ELEKTROTECHNIK GMBH
SCHWAEBISCH HALL - GERMANY

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DESCRIPTION

PRODUCT COVERED:

USR, CNR Component, Open Type, Industrial Control Panel - Heaters.

Models:

* HV 031 followed by 00, 01, 10, 11, 12, followed by .0 or .9, followed by -00 to -99.

HVL 031 followed by 02, 03, 13, 14, 15, followed by .0 or .9, followed by -00 to -99.

GENERAL:

These are open type electrical heaters intended to be used in industrial control applications, consisting of a aluminum heater block and a fan.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

CNR - Indicates investigation to Canadian National Standard C22.2 No. 14.

USR - Indicates investigation to United States Standards UL 508 (Industrial Control Equipment) and UL 508A (Industrial Control Panels).

Note: CNR = Canadian National Standards - Recognized component
USR = United States Standards - Recognized component

ELECTRICAL RATING:

*Type	Part-No.	Volt	Watt	Heating element		Fan
HV	03100.0-00	AC230V	100W	H848PA100F-UA	240V/100W Ø8x55mm	No fan
	03100.0-02	AC100V	100W	H849PA100B-UA	105V/100W Ø8x56mm	
	03100.0-03	AC200V	100W	H848PA100H-UA	210V/100W Ø8x55mm	
	03100.9-00	AC120V	100W	H848PA100E-UA	125V/100W Ø8x55mm	
	03101.0-00	AC230V	150W	H848PA150D-UA	240V/150W Ø8x55mm	
	03101.0-03	AC100V	150W	H848PA150F-UA	105V/150W Ø8x55mm	
	03101.0-04	AC200V	150W	H848PA150J-UA	210V/150W Ø8x55mm	
	03101.9-00	AC120V	150W	H848PA150H-UA	125V/150W Ø8x55mm	
*HVL	03102.0-00	AC230V	100W	H848PA100F-UA	240V/100W Ø8x55mm	MINEBEAMIT SUMI INC (E89936)
	03102.0-10					
	03102.9-00	AC120V	100W	H848PA100E-UA	125V/100W Ø8x55mm	AC230V: 08025MB- B3L-AA-00
	03103.9-00	AC120V	150W	H848PA150H-UA	125V/150W Ø8x55mm	or 3110MS- 23W-B30- A04
	03103.0-00	AC230V	150W	H848PA150D-UA	240V/150W Ø8x55mm	AC120V: 08025MB- A1L-AA-00 or 3110MS- 12W-B30- A02
	03103.0-03					
	03103.0-17					
03103.0-18						
HV	03110.0-00	AC230V	200W	H1293PB200C-UA	240V/200W Ø12, 5x100mm	No fan
	03110.0-05	AC100V	200W	H1293PB200E-UA	105V/200W Ø12, 5x100mm	
	03110.0-06	AC200V	200W	H1293PB200D-UA	210V/200W Ø12, 5x100mm	
	03110.9-00	AC120V	200W	H1293PB200F-UA	125V/200W Ø12, 5x100mm	
	03111.0-00	AC230V	300W	H1293PB300B-UA	240V/300W Ø12, 5x100mm	
	03111.0-02	AC100V	300W	H1293PB300E-UA	105V/300W Ø12, 5x100mm	
	03111.0-03	AC200V	300W	H1293PB300D-UA	210V/300W Ø12, 5x100mm	
	03111.9-00	AC120V	300W	H1293PB300C-UA	125V/300W Ø12, 5x100mm	
	03112.0-00	AC230V	400W	H1293PB400D-UA	240V/400W Ø12, 5x100mm	
	03112.0-01					
	03112.0-05	AC100V	400W	H1293PB400G-UA	105V/400W Ø12, 5x100mm	
	03112.0-06	AC200V	400W	H1293PB400F-UA	210V/400W Ø12, 5x100mm	
	03112.9-00	AC120V	400W	H1293PB400E-UA	125V/400W Ø12, 5x100mm	
	03112.0-04	AC250V	400W	H1293PB400B-UA	253V/400W Ø12, 5x100mm	

Electrical Ratings continued:

*Type	Part-No.	Volt	Watt	Heating element		Fan
*HVL	03113.0-00	AC230V	200W	H1293PB200C-UA	240V/200W Ø12,5x100mm	EBM-PABST ST. GEORGEN GMBH & CO. KG (E38324) AC230V: 9950
	03113.0-03					
	03113.0-04					
	03113.9-00	AC120V	200W	H1293PB200F-UA	125V/200W Ø12,5x100mm	AC120V: 9900
	03114.0-00	AC230V	300W	H1293PB300B-UA	240V/300W Ø12,5x100mm	MINEBEAMIT SUMI INC (E89936) AC230V: 11925PB- B3L-EP-00 or 4710PS- 23T-B3A- A03
	03114.9-00	AC120V	300W	H1293PB300C-UA	125V/300W Ø12,5x100mm	
	03115.0-00	AC230V	400W	H1293PB400D-UA	240V/400W Ø12,5x100mm	FULLTECH ELECTRIC CO LTD (E136370)
	03115.0-07					
	03115.0-20					
	03115.9-00	AC120V	400W	H1293PB400E-UA	125V/400W Ø12,5x100mm	AC230V: UF-12B23 AC120V: UF-12B11
	03115.0-13	AC230V	330W	H1293PB400B-UA	253V/400W Ø12,5x100mm	
	03115.0-19					

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Pollution degree: PD2

* Maximum surrounding air temperature: 40°C

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

The heater is for use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

Conditions of Acceptability - Some of the features which should be considered in determining the acceptability of this heater in the specific applications are indicated below:

- *1. **The models HV shall be provided with a fan.** The suitability of the fan and heater combination is to be determined in the end-use product investigation.
- *2. **For the models HV a temperature test shall** be conducted in the end-use product investigation. **Consideration** should be given to the following temperature limits:
 - * a. Wiring Compartment: Maximum allowable temperature 200°C.
 - * b. Insulation Sleeving (**fan wires**): Maximum allowable temperature 125°C.
 - * c. Terminal Block: Maximum allowable temperature 105°C.
 - * d. **Jumper Wire: Maximum allowable temperature 150°C.**
 - * e. **Grounding Wire: Maximum allowable temperature 250°C.**
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- *3. **This products shall be mounted in an electrical enclosure, suitability shall** be evaluated in the **end product application.**
- *4. Suitability of **supply wire(s)** shall be determined in the end product application.
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- *5. Terminals are suitable for Factory Wiring only.