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**Product Description**

The Cutler-Hammer® HT800 Series from Eaton's electrical business is a family of 30.5 mm pushbutton devices which includes momentary, illuminated and mushroomhead pushbuttons, selector switches, indicating lights and push-pull switches. The HT800 devices have a familiar appearance found in most industrial applications and are suitable for replacement of several other manufacturers' 30.5 mm pushbutton devices.

**Features**

- Anodized aluminum mounting rings
- Watertight double V-gasket seals
- Extended height bulbs
- Transparent housing contact blocks
- Color-coded contact blocks
- Gold-plated contacts (on low voltage contact block)
- Reliability ridge on movable contact
- Stackable screw-mounted contact blocks
- Contact blocks can be mounted in left/right or top/bottom positions
- Standard NC contact opens before NO contact closes (break before make operation)
- Bright and long lasting LED indicating lights in six colors
- Field convertible maintained selector switches — from two- to three-position and vice versa
- Field selectable knob/lever mounting positions — at any 22.5° increment

**Benefits**

- Corrosion resistant NEMA 4X finish
- Watertight and oiltight NEMA 4, 13 ingress protection
- Increased side illumination of indicating lights and illuminated pushbuttons
- Easy visual inspection of contact conditions
- Easily identifiable NO (white) or NC (black) contact blocks
- Gold-plated contacts suitable for logic level circuits
- Reliability ridge penetrates contamination buildup on stationary contacts
- Left/right or top/bottom mounted contact blocks allow correct positioning in retrofit applications
- All-purpose selector switches are convertible and can rotate in 22.5° increments to suit panel layouts

**Standards and Certifications**

- UL508 per File No. E131568
- CSA C22.2 No. 14 per File No. LR68551

**Ingress Protection**

- UL (NEMA) Type 1, 2, 3, 3R, 4, 4X, 12 and 13 when mounted in similarly rated enclosures



*HT800 Series*

## Technical Data and Specifications

**Table 47-317. HT800 — Specifications**

Description	Specification
<b>Mechanical Ratings</b>	
Frequency of Operation Pushbuttons Selector Switches Push-Pull Operators	6,000 Operations per hour 3,000 Operations per hour 3,000 Operations per hour
Mechanical Endurance/Life Pushbuttons Selector Switches Push-Pull Operators	10 x 10 <sup>6</sup> Operations 6K Ops/Hr with 6 NO on left and 6 NC on right 250 x 10 <sup>3</sup> Operations 3K Ops/Hr with 2 NO on left and 2 NC on right 250 x 10 <sup>3</sup> Operations 3K Ops/Hr with 6 NO on left and 6 NC on right
<b>Climatic Conditions</b>	
Operating Temperature	10° to 140°F (-12° to 60°C)
Storage Temperature	-40° to 176°F (-40° to 80°C)
Altitude	6,562 ft. (2,000m)
Humidity	95% RH @ 60°C
<b>Terminals</b>	
Contact Blocks	#6-32 posi-drive saddle clamp type, 1 x 16 AWG to 2 x 14 AWG, 12 in-lbs max.
Light Units	#6-32 posi-drive saddle clamp type, 1 x 22 AWG to 2 x 14 AWG, 7 in-lbs max.
<b>Electrical Ratings</b>	
Standard Contact Blocks UL (NEMA) Rating	See <b>Table 47-318</b> .
Logic Level Contact Block Power Rating	5V 1 mA (minimum) 28V 500 mA (maximum)

**Table 47-318. Electrical Ratings — HT800 Standard Contact Blocks, UL Rating**

Description/Function	Contact Type	Catalog Number	AC	DC
Standard Normally Open contact	NO	HT8A	A600 ①	P600 ②
Standard Normally Closed contact	NC	HT8B	A600 ①	P600 ②
Normally Open Early Make Contact will make circuit before standard NO contact. DC ratings do not apply.	NOEM	HT8C	A600 ①	—
Normally Closed Late Break contact will open after standard NC contact. DC ratings do not apply.	NCLB	HT8D	A600 ①	—
Logic level, low voltage NO contact. Gold plated contacts.	NO	HT8E	5V 1 mA (minimum) 28V 500 mA (maximum)	

① Heavy duty.

② Standard duty.

**Table 47-319. UL A600 and P600 Ratings**

Description	Volts AC 50 or 60 Hz				Volts DC ③		
	120	240	480	600	125	250	600
Make and Emerg. Interrupting Capacity (Amp)	60	30	15	12	1.1	0.55	0.2
Normal Load Break (Amp)	6	3	1.5	1.2	1.1	0.55	0.2
Thermal Current (Amp)	10	10	10	10	5	5	5
Voltamperes:							
Make and Emerg. Interrupting Capacity	7200	7200	7200	7200	138 ④	138 ④	138 ④
Normal Load Break	720	720	720	720	138	138	138

③ DC ratings do not apply to NOEM (Normally Open Early Make) and NCLB (Normal Closed Late Break) contact blocks HT8C and HT8D.

④ Maximum make or break volt-amperes at 300V or less.