NOTIFIER by Honeywell

# System Current Draw - NFS-320

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 09/02/13

| Total Current | |
|---|---|
| C1 | 0.347 A |
| C2 | 0.737 A |
| C3 | 0.387 A |
| C4 | 0.777 A |

Primary Non-Alarm - C1

Primary Alarm -

| | C1 - Primary Non-Alarm | | | | C2 - Primary Alarm | | | | C3 - Secondary Non-Alarm | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Device | Qty | | Draw | Total | Qty | | Draw | Total | Qty | | Draw | Total |
| CPU-320 | 1 | x | 0.25000 | 0.25000 | 1 | x | 0.25000 | 0.25000 | 1 | x | 0.25000 | 0.25000 |
| CPS-24 | 1 | x | 0.00000 | 0.00000 | 1 | x | 0.00000 | 0.00000 | 1 | x | 0.04000 | 0.04000 |
| UDACT-2 Communicator | 1 | x | 0.05200 | 0.05200 | 1 | x | 0.08700 | 0.08700 | 1 | x | 0.05200 | 0.05200 |
| FSP-851 | 68 | x | 0.00030 | 0.02040 | | | | | 68 | x | 0.00030 | 0.02040 |
| FST-851 | 22 | x | 0.00030 | 0.00660 | | | | | 22 | x | 0.00030 | 0.00660 |
| FRM-1 | 10 | x | 0.00026 | 0.00255 | | | | | 10 | x | 0.00026 | 0.00255 |
| FMM-101 | 43 | x | 0.00035 | 0.01505 | | | | | 43 | x | 0.00035 | 0.01505 |
| SLC Loop Device Activation Current | | | | | 1 | x | 0.40000 | 0.40000 | | | | |
| | | | Total Non-Alarm Load: | 0.347 | | | Total Alarm Load: | 0.737 | | | Total Standby Load: | 0.387 |

**C4 - Maximum Secondary Fire Alarm Current Draw**

Only include those additional power supplies that are backed up by the control panels batteries.

| Device | Qty | | Draw | Total |
|---|---|---|---|---|
| Total Primary Alarm Load - C2 | | | 0.737 | 0.737 |
| CPS-24 | 1 | x | 0.040 | 0.040 |
| NCA2 - Backlight Off with loss of AC | 0 | x | -0.200 | |
| APS-6R Power Supplies | | | 0.000 | |
| APS2-6R Power Supplies | | | 0.000 | |
| ACPS-610 Power Supplies | | | 0.000 | |
| FCPS-24S6 Power Supplies | | | 0.000 | |
| FCPS-24S8 Power Supplies | | | 0.000 | |
| HPFF8 Power Supplies | | | 0.000 | |
| HPFF12 Power Supplies | | | 0.000 | |
| DAA2 Series | | | 0.000 | |
| DAX Series | | | 0.000 | |
| DAA Series | | | 0.000 | |
| DS-DB | | | 0.000 | |
| FireVoice Panels | | | 0.000 | |
| FireVoice Distributed Audio Panels | | | 0.000 | |
| XPIQ | | | 0.000 | |
| AA-30 | 0 | x | 3.000 | |
| AA-120 | 0 | x | 7.300 | |
| Other Power Supply | 0 | x | 0.000 | |
| Other Power Supply | 0 | x | 0.000 | |
| Other Power Supply | 0 | x | 0.000 | |
| | | | Total Standby Alarm Load: | 0.777 |

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# System Power Requirements

Notifier NFS-320 Fire Alarm Control Panel

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Date: 09/02/13

Protected Premises: 100 State Street Date:
Address: 100 State Street
City: Portland State: Maine Zip:

Prepared By: Norris Inc Phone:
Address: 2257 West Broadway Email:
City: South Portland State: Maine Zip: 04106

## AC Branch Current Requirements

5.00 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

## Primary Standby Load

0.35 Amps

Current load on the primary power supply during **non-alarm** conditions.

## Primary Alarm Load

0.74 Amps

Current load on the primary power supply during **alarm** conditions.

## Secondary Load Requirements

11.37 Amp Hours

Total Secondary Load from the calculation table below.

| Current Draw | | Time (hours) | Total (AH) |
|---|---|---|---|
| **Secondary Standby Load** 0.387 A | x | Required Standby Time 24 hours | 9.28 |
| **Secondary Alarm Load** 0.777 A | x | Required Alarm Time (hours) 0.250 hours | 0.19 |
| | | Total Secondary Load | 9.47 |
| | | Derating factor | x 1.2 |
| | | **Secondary Load Requirements (Amp Hours)** | **11.37** AH |

## Battery Selection

18 Amp Hours

Select batteries from the list below.

18 AH BAT-12180 Battery (12 volt)

(•) Two ( ) Four (two 12VDC sets in parallel)

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## Battery Distribution Chart

Shows amp-hour distribution of your selections.

## Comments

1. Batteries will fit in the FACP cabinet.
2. Selected battery size meets secondary load requirements.
3. The selected batteries (18AH) are within the charger range of this power supply (18-200AH).

| | | |
|---|---|---|
| Spare Battery Capacity | 6.63 | Battery Selection (AH) - Secondary Load Requirements (AH) |
| Secondary Standby Load | 11.13 | Secondary Standby Load (AH) * Derating Factor |
| Secondary Alarm Load | 0.23 | Secondary Alarm Load (AH) * Derating Factor |