**Observation tables:**

**On/Off**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Run** | **Upper hysteresis** | **Lower hysteresis** | **Set point** | **Offset(min)** |
|  |  |  | 50 | 0.1 |
| 1 | 1 | 0.5 | 40 | 10.3 |
|  |  |  | 63 | 3.4 |
|  |  |  | 50 | 0.1 |
| 2 | 2 | 0.5 | 40 | 10.6 |
|  |  |  | 63 | 3.4 |
|  |  |  | 50 | 0.1 |
| 3 | 3 | 1 | 40 | 10.6 |
|  |  |  | 63 | 3.4 |

**P-only**

|  |  |  |  |
| --- | --- | --- | --- |
| **Run** | **P** | **Set point** | **Offset(min)** |
|  |  | 50 | 4.9 |
| 1 | 100 | 40 | 16.2 |
|  |  | 63 | 7.4 |
|  |  | 50 | 3.9 |
| 2 | 50 | 40 | 12.4 |
|  |  | 63 | 5.9 |
|  |  | 50 | 3.9 |
| 3 | 25 | 40 | 10.6 |
|  |  | 63 | 6.1 |

**PD**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Run** | **P** | **D** | **Set point** | **Offset(min)** |
|  |  |  | 50 | 2.1 |
| 1 | 100 | 250 | 40 | 9.9 |
|  |  |  | 63 | 4.6 |
|  |  |  | 50 | 0.5 |
| 2 | 100 | 500 | 40 | 9.8 |
|  |  |  | 63 | 3.8 |
|  |  |  | 50 | 2.4 |
| 3 | 100 | 1000 | 40 | 9.7 |
|  |  |  | 63 | 4 |

**PID**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Run** | **P** | **I** | **D** | **Set point** | **Offset(min)** |
|  |  |  |  | 50 | 0.4 |
| 1 | 100 | 250 | 100 | 40 | 10 |
|  |  |  |  | 63 | 4.4 |
|  |  |  |  | 50 | 2.7 |
| 2 | 100 | 500 | 500 | 40 | 9.9 |
|  |  |  |  | 63 | 5.1 |
|  |  |  |  | 50 | 2.1 |
| 3 | 100 | 1000 | 500 | 40 | 9.9 |
|  |  |  |  | 63 | 4.4 |