OD-1320X
CNC Cylindrical Grinder
Electrical Manual

Sharp Industries, Inc.
SHARP

NC Type: 01-TF
Model: OD-CNC
Drawing No.: 01
Title: POWER SYSTEM
SHARP
MODEL: OD-CNC
NC Type: 0i-TF
Machine: DD Grinding
Title: OPERATION PANEL (PB)
SHARP

NC Type  0i-TF  Machine: \( \square \) Grinding
MODEL  OD-CNC  Title: OPERATION PANEL LAMP

<table>
<thead>
<tr>
<th>Approved</th>
<th>Checked</th>
<th>Designed</th>
<th>Drawn</th>
</tr>
</thead>
<tbody>
<tr>
<td>16, 10, 14</td>
<td>16, 10, 14</td>
<td>16, 10, 14</td>
<td>16, 10, 14</td>
</tr>
</tbody>
</table>

SHUN
TL-02(OPTION)
端面(TOUCH PROBE)

6C 隔離線

WHITE
0V

RED
BLUE
BLACK

+24

X4.2A TO RA20

SHARP
NC Type: 01-TF
MODEL: OD-CNC
Drawing No.: 58
Machine: OD Griding
Title: TOUCH PROBE
MARPOSS E20N (OPTION)
間際 (GAP) & 防撞 (CRASH)

+24 → 5 RA11 → 9 Y9.2 (CRASH)

Marposs Relay
5 6

Marposs Relay
7 8

0V → +24 → Y9.3 (GAP)

KA4
5 9 +24

X4.3B (SIZING)
4 12 → X4.3 TO TB3

X4.3A (GAP)
8 13

Relay
14 13

X58.0 (CRASH)
8 15

Y9.3 → 0V
### MARPOSS (P3SE)

#### GAP & CRASH

<table>
<thead>
<tr>
<th>NO</th>
<th>DESCRIPTION</th>
<th>COLOR</th>
<th>I/O</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NOT CONNECTED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>NOT CONNECTED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CONNECT TO +24V FOR SOURCE TYPE</td>
<td>BLUE</td>
<td>0V</td>
</tr>
<tr>
<td>10</td>
<td>GAP#1 INPUT LOGIC SIGNAL</td>
<td>WHITE</td>
<td>Y9.3</td>
</tr>
<tr>
<td>3</td>
<td>CRASH#1 INPUT LOGIC SIGNAL</td>
<td>YELLOW</td>
<td>Y9.2</td>
</tr>
<tr>
<td>11</td>
<td>GAP#2 INPUT LOGIC SIGNAL(SPARE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>CRASH#2 INPUT LOGIC SIGNAL(SPARE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>SET INPUT LOGIC SIGNAL</td>
<td>PURPLE</td>
<td>Y10.4</td>
</tr>
<tr>
<td>5</td>
<td>CONNECT TO 0V FOR SINK TYPE</td>
<td>RED</td>
<td>+24</td>
</tr>
<tr>
<td>13</td>
<td>GAP#1 OUTPUT LOGIC SIGNAL</td>
<td>BLACK</td>
<td>X4.3A</td>
</tr>
<tr>
<td>6</td>
<td>CRASH#1 OUTPUT LOGIC SIGNAL</td>
<td>ORANGE</td>
<td>X58.0</td>
</tr>
<tr>
<td>14</td>
<td>GAP#2 OUTPUT LOGIC SIGNAL(SPARE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>CRASH#2 OUTPUT LOGIC SIGNAL(SPARE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>ALARM/BUSY OUTPUT LOGIC SIGNAL</td>
<td>GREY</td>
<td>X59.6</td>
</tr>
<tr>
<td>8</td>
<td>NOT CONNECTED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### Diagram

- **O.D GAP**
  - RA22 (Y10.5)
  - AUTO SIZING: X4.3B
  - X4.3A
  - 6b → COM → X4.3

---

**SHARP**

**NC Type**: 01-TF  
**Model**: OD-CNC  
**Machine**: DD Gridding  
**Drawing No.**: 60  
**Title**: OD CRASH & GAP
HYDRAULIC

E

U21 1 13 110VA
V21 2 14 14
W21 3 15 15
U3 4 16 110VC
V3 5 17 17
W3 6 18 18
U5 7 19 B
V5 8 20 +24
W5 9 21 X50.4
U6 10 22 X52.4
V6 11 23 23
W6 12 24 24

COOLANT

30Ø

U4 1
V4 2
W4 3
UP 4

FOOT SWITCH

D25 4PIN

+24 X51.2
1 2
3 4

SHARP

NC Type: Oi-TF
Model: OD-CNC
Title: HYDRAULIC AND COOLANT PUMP SOCKET CONNECTION

Approved: 16.10.14
Checked: 16.10.14
Designed: 16.10.14
Drawn: 16.10.14

Machine: DD Grinding
Drawing No: 68
### Circuit Diagram

**OIL FEED**

<table>
<thead>
<tr>
<th>Pin</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>電源 (Power)</td>
</tr>
<tr>
<td>2</td>
<td>110VA</td>
</tr>
<tr>
<td>3</td>
<td>+24</td>
</tr>
<tr>
<td>4</td>
<td>110VB X53.6</td>
</tr>
<tr>
<td>5</td>
<td>PRESSURESW</td>
</tr>
<tr>
<td>6</td>
<td>LEVELSW</td>
</tr>
<tr>
<td>7</td>
<td>220VA</td>
</tr>
<tr>
<td>8</td>
<td>220VBA</td>
</tr>
<tr>
<td>9</td>
<td>PE</td>
</tr>
<tr>
<td>10</td>
<td>GROUND</td>
</tr>
</tbody>
</table>

**SHARP**

- **NC Type**: 0I-TF
- **Model**: OD-CNC
- **Machine**: OD Grinding
- **Title**: LUBRICATION OIL FEED
- **Drawing No.**: 73
- **Approved**: 16, 10, 14, SHUN
- **Checked**: 16, 10, 14, SHUN
- **Designed**: 16, 10, 14, SHUN
- **Drawn**: 16, 10, 14, SHUN