FOR SD17040 DRIVES WITH 50% IDLE CURRENT REDUCTION

SD17040 Worksheet

INDEXER CONNECTIONS

- **Directional Pulse Inputs**
- **Disable Input** - Motor current is off when active.
- **Fault Output** - Normally on. Turns off when:
  1) Interlock Jumper missing
  2) Short in motor (phase-to-phase or phase-to-ground)
  3) Heatsink temperature exceeds 90°C (195°F).

All inputs are designed to accept 5 Vdc differential signals from the indexer, but they can be wired to accept sinking or sourcing outputs of up to 24Vdc. If your indexer outputs are higher than 5 Vdc, a current limiting resistor must be installed in the circuit.

Wiring diagrams and a table of common current limiting resistor values are given below.

Differential Output From Indexer

Open Collector Sourcing Output From Indexer

Open Collector Sinking Output From Indexer

Common Values of R_LIM

<table>
<thead>
<tr>
<th>Vdc</th>
<th>R_LIM</th>
</tr>
</thead>
<tbody>
<tr>
<td>+5 to +24V</td>
<td>None</td>
</tr>
<tr>
<td>5 Volts</td>
<td>2.0 KΩ</td>
</tr>
<tr>
<td>15 Volts</td>
<td>2.0 KΩ</td>
</tr>
<tr>
<td>24 Volts</td>
<td>3.9 KΩ</td>
</tr>
</tbody>
</table>

The Fault output is an optically isolated transistor capable of driving a typical PLC input. Both ends are uncommitted, so it can be wired as a sourcing or sinking output. The figure below shows a typical connection as a sourcing output.

Open Collector Sourcing Output

Sheet Number: 940-2S030