The SD1-S unit is a star/delta switch designed for use with three-phase star/delta motors. Speed change is approximately in the ratio of 1.3:1 and the power saving is up to 50%.

The SD1-S switch is suitable for the entire range of three-phase two speed star/delta external rotor motors used on the backward-curved centrifugal fan products supplied by Fantech. In addition it can be used with a range of two speed star/delta motors fitted to axial flow fans.

The unit is a simple switch and does not provide any protection to the motor. As defined in the wiring code AS/NZS3000:2000, three-phase motors that are unattended must be suitably protected; HRC fuses are not sufficient for that purpose.

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Maximum Amps</th>
<th>Mounting</th>
<th>Dimensions, mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD1-S</td>
<td>20</td>
<td>Recess</td>
<td>114W × 70H × 90D</td>
</tr>
</tbody>
</table>

The unit incorporates an ON-OFF switch with high and low speed settings.

### WIRING DIAGRAM

**Standard foot/flange mounting motors**

- Change rotation by interchanging any two incoming lines.
- Remove all bridges across fan motor terminals.
- Thermal overload relay protection must be fitted on all incoming lines or warranty will be void.

**Rosenberg & Ziehl External Rotor Motors**

**EBM External Rotor Motors**

Different centrifugal external rotor fans can have different coloured leads as shown.