

# Model LM90T033: 1/3 HP 90VDC Electrical Specifications

Information shown is for current motor's design

## Engineering Data

|          |                  |                  |
|----------|------------------|------------------|
| RPM 1750 | HP 1/3           | Serv. Factor 1.0 |
| KW       | Form Factor 1.38 | Amps 3.5         |
| KW2      | Form Factor 2    | FLA2             |
| Volts 90 | Frame 56C        |                  |

|                                 |                   |                        |
|---------------------------------|-------------------|------------------------|
| Max Amb 40                      | Duty CONT         | TYPE DF                |
| Insul Class F                   | Enclosure TEFC    | Bearing OPE 6203       |
| Protection NOT                  | Protector         | Bearing PE 6203        |
| EFF 82%                         | Torque 12.0 LB-IN |                        |
| UL Yes                          | CSA Yes           | CE No                  |
| Motor Wt. 26 LB                 | Nameplate 081259  | Lubrication POLYREX EM |
| Carton Label Leeson Gen Purpose |                   |                        |

|               |                       |                        |
|---------------|-----------------------|------------------------|
| Assembly      | Mounting C-Face Rigid | Rotation RECONN        |
| Winding D4729 | Ext. Diag.            | Ext. Diag2             |
| GROUP 1 A     | Shaft Dia. 5/8 IN     | Packaging PG659201.04A |
| Sub Group A   | Paint 305000.01       |                        |
| Test Card 02  | Outline 027620        | Cust Part No           |

## Performance

|                      |   |
|----------------------|---|
| Torque UOM 153 LB-IN | Inertia (WK <sup>2</sup> ) 6.3 LB-IN <sup>2</sup> |
| Torque 0             | 12 24   |
| CURRENT (amps) .32   | 3.2 6.2   |
| Efficiency (%) 0     | .82 .775  |
| PowerFactor          |   |

## Load Curve Data

| Output Pwr (HP) | RPM  | AMP | Torque (LB-IN) | Eff  | Watts | Watts Loss | Volts |
|-----------------|------|-----|----------------|------|-------|------------|-------|
| 0               | 1811 | .32 | 0              | 0    | 0     | 29         | 90    |
| .3              | 1684 | 3.2 | 12             | .82  | 239   | 52         | 90    |
| .6              | 1527 | 6.2 | 24             | .775 | 434   | 126        | 90    |