## Part Detail

<table>
<thead>
<tr>
<th>Revision</th>
<th>F</th>
<th>Status</th>
<th>PRD/A</th>
<th>Change #</th>
<th>Proprietary</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>AC</td>
<td>Elec. Spec:</td>
<td>35WGN909</td>
<td>CD Diagram:</td>
<td>CD0005</td>
<td></td>
</tr>
<tr>
<td>Mech. Spec</td>
<td>35E060</td>
<td>Layout:</td>
<td>35LYE060</td>
<td>Poles:</td>
<td>04</td>
<td></td>
</tr>
<tr>
<td>Base:</td>
<td>N</td>
<td>Eff. Date:</td>
<td>10-24-2017</td>
<td>Leads:</td>
<td>9#18</td>
<td></td>
</tr>
</tbody>
</table>

## Specs

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>VEBM3558T</th>
<th>Insulation Class</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure</td>
<td>TEFC</td>
<td>Inverter Code:</td>
<td>Inverter Ready</td>
</tr>
<tr>
<td>Frame</td>
<td>145TC</td>
<td>KVA Code:</td>
<td>L</td>
</tr>
<tr>
<td>Frame Material</td>
<td>Steel</td>
<td>Lifting Lugs:</td>
<td>No Lifting Lugs</td>
</tr>
<tr>
<td>Output @ Frequency</td>
<td>2.000 HP @ 60 HZ</td>
<td>Locked Bearing Indicator</td>
<td>Locked Bearing</td>
</tr>
<tr>
<td>Synchronous Speed @ Frequency</td>
<td>1800 RPM @ 60 HZ</td>
<td>Motor Lead Quantity/Wire Size:</td>
<td>9 @ 18 AWG</td>
</tr>
<tr>
<td>Voltage @ Frequency</td>
<td>460.0 V @ 60 HZ</td>
<td>Motor Lead Exit:</td>
<td>Ko Box</td>
</tr>
<tr>
<td></td>
<td>230.0 V @ 60 HZ</td>
<td>Motor Lead Termination:</td>
<td>Flying Leads</td>
</tr>
<tr>
<td>XP Class and Group</td>
<td>None</td>
<td>Motor Type:</td>
<td>3528M</td>
</tr>
<tr>
<td>XP Division</td>
<td>Not Applicable</td>
<td>Mounting Arrangement:</td>
<td>F1</td>
</tr>
<tr>
<td>Agency Approvals</td>
<td>UR</td>
<td>Power Factor:</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>CSA EEV</td>
<td>Product Family:</td>
<td>General Purpose</td>
</tr>
<tr>
<td></td>
<td>CSA</td>
<td>Product Type:</td>
<td>BRAKE MOTOR</td>
</tr>
<tr>
<td>Auxiliary Box</td>
<td>No Auxiliary Box</td>
<td>Pulley End Bearing Type:</td>
<td>Ball</td>
</tr>
<tr>
<td>Auxiliary Box Lead Termination</td>
<td>None</td>
<td>Pulley Face Code:</td>
<td>C-Face</td>
</tr>
<tr>
<td>Base Indicator</td>
<td>No Mounting</td>
<td>Pulley Shaft Indicator:</td>
<td>Standard</td>
</tr>
<tr>
<td>Bearing Grease Type</td>
<td>Polyrex EM (-20F +300F)</td>
<td>Rodent Screen:</td>
<td>None</td>
</tr>
<tr>
<td>Blower</td>
<td>None</td>
<td>Shaft Extension Location:</td>
<td>Pulley End</td>
</tr>
<tr>
<td>Current @ Voltage:</td>
<td>2.900 A @ 460.0 V</td>
<td>Shaft Ground Indicator:</td>
<td>No Shaft Grounding</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------------</td>
<td>-------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td></td>
<td>5.800 A @ 230.0 V</td>
<td>Shaft Rotation:</td>
<td>Reversible</td>
</tr>
<tr>
<td></td>
<td>6.600 A @ 208.0 V</td>
<td>Shaft Slinger Indicator:</td>
<td>No Slinger</td>
</tr>
<tr>
<td>Design Code:</td>
<td>B</td>
<td>Speed Code:</td>
<td>Single Speed</td>
</tr>
<tr>
<td>Drip Cover:</td>
<td>No Drip Cover</td>
<td>Motor Standards:</td>
<td>NEMA</td>
</tr>
<tr>
<td>Duty Rating:</td>
<td>CONT</td>
<td>Starting Method:</td>
<td>Direct on line</td>
</tr>
<tr>
<td>Electrically Isolated Bearing:</td>
<td>Not Electrically Isolated</td>
<td>Thermal Device - Bearing:</td>
<td>None</td>
</tr>
<tr>
<td>Feedback Device:</td>
<td>NO FEEDBACK</td>
<td>Thermal Device - Winding:</td>
<td>None</td>
</tr>
<tr>
<td>Front Face Code:</td>
<td>Brake Mounting</td>
<td>Vibration Sensor Indicator:</td>
<td>No Vibration Sensor</td>
</tr>
<tr>
<td>Front Shaft Indicator:</td>
<td>None</td>
<td>Winding Thermal 1:</td>
<td>None</td>
</tr>
<tr>
<td>Heater Indicator:</td>
<td>No Heater</td>
<td>Winding Thermal 2:</td>
<td>None</td>
</tr>
<tr>
<td>CAT. NO.</td>
<td>VEBM3558T</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>---------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPEC.</td>
<td>35E060N990G1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HP</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VOLTS</td>
<td>230/460</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMP</td>
<td>5.8/2.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPM</td>
<td>1755</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRAME</td>
<td>145TC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HZ</td>
<td>60</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PH</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SER.F.</td>
<td>1.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CODE</td>
<td>L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DES</td>
<td>B</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CL</td>
<td>F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NEMA-NOM-EFF</td>
<td>86.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PF</td>
<td>75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RATING</td>
<td>40C AMB-CONT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CC</td>
<td>010A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DE</td>
<td>6205</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENCL</td>
<td>TEFC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SN</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>USABLE AT</td>
<td>208V</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6.6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Parts List

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SA265084</td>
<td>SA 35E060N909G1</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>RA251788</td>
<td>RA 35E060N909G1</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>NS2512A01</td>
<td>INSULATOR, CONDUIT BOX X</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>35CB3007</td>
<td>35 CB CASTING W/.88 DIA. LEAD HOLE</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>36GS1000SP</td>
<td>GASKET-CONDUIT BOX, .06 THICK #SV-330 LE</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>51XB1016A07</td>
<td>10-16 X 7/16 HXWSSLD SERTYB</td>
<td>2.000 EA</td>
</tr>
<tr>
<td>11XW1032G06</td>
<td>10-32 X .38, TAPTITE II, HEX WSHR SLTD U</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>35EP3900T02</td>
<td>SPL FACE MTD FR EP-ENCL-W/STEARNs BRAKE</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>HW4500A01</td>
<td>1641B(ALEMITE)400 UNIV, GREASE FITT</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>HW5100A03</td>
<td>WAVY WASHER (W1543-017)</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>35EP3300A46</td>
<td>PULLEY ENDPLATE, MACH</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>HW4500A01</td>
<td>1641B(ALEMITE)400 UNIV, GREASE FITT</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>51XN1032A20</td>
<td>10-32 X 1 1/4 HX WS SL SR</td>
<td>2.000 EA</td>
</tr>
<tr>
<td>HA1014A02SP</td>
<td>SPL SPACER FOR FAN COVER MTD ON BRAKE</td>
<td>3.000 EA</td>
</tr>
<tr>
<td>51XB1016A07</td>
<td>10-16 X 7/16 HXWSSLD SERTYB</td>
<td>3.000 EA</td>
</tr>
<tr>
<td>BR1003A01</td>
<td>BRAKE RELEASE LEVER</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>35FH5000A08</td>
<td>FAN COVER ASSY FOR BRAKE MTRS,W/ PRIMER</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>51XW1032A06</td>
<td>10-32 X .38, TAPTITE II, HEX WSHR SLTD S</td>
<td>3.000 EA</td>
</tr>
<tr>
<td>35CB4521GX</td>
<td>CONDUIT BOX LID KIT</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>51XW0832A07</td>
<td>8-32 X .44, TAPTITE II, HEX WSHR SLTD SE</td>
<td>4.000 EA</td>
</tr>
<tr>
<td>HW2501D13</td>
<td>KEY, 3/16 SQ X 1.375</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>HA7000A01</td>
<td>KEY RETAINER 7/8” DIA SHAFT</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>85XU0407S04</td>
<td>4X1/4 U DRIVE PIN STAINLESS</td>
<td>2.000 EA</td>
</tr>
<tr>
<td>MJ1000A02</td>
<td>GREASE, POLYREX EM EXXON (USe 4824-15A)</td>
<td>0.050 LB</td>
</tr>
<tr>
<td>Part Number</td>
<td>Description</td>
<td>Quantity</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>HW2501D08</td>
<td>KEY, 3/16 SQ X .875 AUTO</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>84XN3816J28</td>
<td>HEX SOC HD, 3/8-16 X 1.75 LONG</td>
<td>2.000 EA</td>
</tr>
<tr>
<td>76BK3100BQF</td>
<td>1-056-031-00-BQF BRAKE TDR# 79345</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>35FN3002A01SP</td>
<td>EXFN, PLASTIC, 6.376 OD, .625 ID W/FLAT</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>51XB1214A16</td>
<td>12-14X1.00 HXWSSLD SERTYB</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>HA3100A15</td>
<td>THRUBOLT 10-32 X 8.375</td>
<td>4.000 EA</td>
</tr>
<tr>
<td>MG1000Y03</td>
<td>MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,</td>
<td>0.017 GA</td>
</tr>
<tr>
<td>LC0005E01</td>
<td>Conn.Dia./Warning Label (LC0005/LB1119N)</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>LB1404</td>
<td>Brake Connection Label</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>NP1259L</td>
<td>ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>PK3082</td>
<td>Styrofoam Cradle</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>G7PA1000</td>
<td>PKG GRP, PRINT PK1034A06</td>
<td>1.000 EA</td>
</tr>
<tr>
<td>MN416A01</td>
<td>Tag-Instal-Maint No wire (1100/bx) 11/14</td>
<td>1.000 EA</td>
</tr>
</tbody>
</table>
AC Induction Motor Performance Data
Record # 53344 - Typical performance - not guaranteed values

<table>
<thead>
<tr>
<th>Winding: 35WGN909-R032</th>
<th>Type: 3528M</th>
<th>Enclosure: TEFC</th>
</tr>
</thead>
</table>

**Nameplate Data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Output (HP)</td>
<td>2</td>
</tr>
<tr>
<td>Volts</td>
<td>230/460</td>
</tr>
<tr>
<td>Full Load Amps</td>
<td>5.8/2.9</td>
</tr>
<tr>
<td>R.P.M.</td>
<td>1755</td>
</tr>
<tr>
<td>Hz</td>
<td>60</td>
</tr>
<tr>
<td>Phase</td>
<td>3</td>
</tr>
<tr>
<td>NEMA Design Code</td>
<td>B</td>
</tr>
<tr>
<td>KVA Code</td>
<td>L</td>
</tr>
<tr>
<td>Service Factor (S.F.)</td>
<td>1.15</td>
</tr>
<tr>
<td>NEMA Nom. Eff.</td>
<td>86.5</td>
</tr>
<tr>
<td>Power Factor</td>
<td>75</td>
</tr>
<tr>
<td>Rating - Duty</td>
<td>40C AMB-CONT</td>
</tr>
<tr>
<td>S.F. Amps</td>
<td></td>
</tr>
</tbody>
</table>

**460 V, 60 Hz: High Voltage Connection**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Load Torque</td>
<td>5.99 LB-FT</td>
</tr>
<tr>
<td>Start Configuration</td>
<td>direct on line</td>
</tr>
<tr>
<td>Breakdown Torque</td>
<td>24.9 LB-FT</td>
</tr>
<tr>
<td>Pull-up Torque</td>
<td>15.9 LB-FT</td>
</tr>
<tr>
<td>Locked-rotor Torque</td>
<td>17.2 LB-FT</td>
</tr>
<tr>
<td>Starting Current</td>
<td>23.9 A</td>
</tr>
<tr>
<td>No-load Current</td>
<td>1.81 A</td>
</tr>
<tr>
<td>Line-line Res. @ 25°C</td>
<td>8.02 Ω</td>
</tr>
<tr>
<td>Temp. Rise @ Rated Load</td>
<td>65°C</td>
</tr>
<tr>
<td>Temp. Rise @ S.F. Load</td>
<td>77°C</td>
</tr>
<tr>
<td>Locked-rotor Power Factor</td>
<td>52.4</td>
</tr>
<tr>
<td>Rotor Inertia</td>
<td>0.165 LB-FT2</td>
</tr>
</tbody>
</table>

**Load Characteristics 460 V, 60 Hz, 2 HP**

<table>
<thead>
<tr>
<th>% of Rated Load</th>
<th>25</th>
<th>50</th>
<th>75</th>
<th>100</th>
<th>125</th>
<th>150</th>
<th>S.F.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Factor</td>
<td>33</td>
<td>53</td>
<td>66</td>
<td>74</td>
<td>80</td>
<td>83</td>
<td>78</td>
</tr>
<tr>
<td>Efficiency</td>
<td>75.6</td>
<td>84.1</td>
<td>86.4</td>
<td>86.6</td>
<td>85.9</td>
<td>84.6</td>
<td>86.2</td>
</tr>
<tr>
<td>Speed</td>
<td>1790</td>
<td>1779</td>
<td>1769</td>
<td>1756</td>
<td>1743</td>
<td>1728</td>
<td>1748</td>
</tr>
<tr>
<td>Line amperes</td>
<td>1.89</td>
<td>2.11</td>
<td>2.46</td>
<td>2.91</td>
<td>3.4</td>
<td>4</td>
<td>3.2</td>
</tr>
</tbody>
</table>
Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values
# AC Induction Motor Performance Data

Record # 57956 - Typical performance - not guaranteed values

<table>
<thead>
<tr>
<th>Winding: 35WGN909-R032</th>
<th>Type: 3528M</th>
<th>Enclosure: TEFC</th>
</tr>
</thead>
</table>

### Nameplate Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Output (HP)</td>
<td>2</td>
</tr>
<tr>
<td>Volts</td>
<td>230/460</td>
</tr>
<tr>
<td>Full Load Amps</td>
<td>5.8/2.9</td>
</tr>
<tr>
<td>R.P.M.</td>
<td>1755</td>
</tr>
<tr>
<td>Hz</td>
<td>60</td>
</tr>
<tr>
<td>NEMA Design Code</td>
<td>B</td>
</tr>
<tr>
<td>KVA Code</td>
<td>L</td>
</tr>
<tr>
<td>Service Factor (S.F.)</td>
<td>1.15</td>
</tr>
<tr>
<td>NEMA Nom. Eff.</td>
<td>86.5</td>
</tr>
<tr>
<td>Power Factor</td>
<td>75</td>
</tr>
<tr>
<td>Rating - Duty</td>
<td>40C AMB-CONT</td>
</tr>
<tr>
<td>S.F. Amps</td>
<td></td>
</tr>
</tbody>
</table>

### 230 V, 60 Hz: Low Voltage Connection

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Load Torque</td>
<td>5.99 LB-FT</td>
</tr>
<tr>
<td>Start Configuration</td>
<td>direct on line</td>
</tr>
<tr>
<td>Breakdown Torque</td>
<td>24.9 LB-FT</td>
</tr>
<tr>
<td>Pull-up Torque</td>
<td>15.9 LB-FT</td>
</tr>
<tr>
<td>Locked-rotor Torque</td>
<td>17.2 LB-FT</td>
</tr>
<tr>
<td>Starting Current</td>
<td>47.8 A</td>
</tr>
<tr>
<td>No-load Current</td>
<td>3.62 A</td>
</tr>
<tr>
<td>Line-line Res. @ 25°C</td>
<td>2 Ω</td>
</tr>
<tr>
<td>Temp. Rise @ Rated Load</td>
<td>65°C</td>
</tr>
<tr>
<td>Temp. Rise @ S.F. Load</td>
<td>77°C</td>
</tr>
<tr>
<td>Locked-rotor Power Factor</td>
<td>52.4</td>
</tr>
<tr>
<td>Rotor inertia</td>
<td>0.165 LB-FT2</td>
</tr>
</tbody>
</table>

### Load Characteristics 230 V, 60 Hz, 2 HP

<table>
<thead>
<tr>
<th>% of Rated Load</th>
<th>25</th>
<th>50</th>
<th>75</th>
<th>100</th>
<th>125</th>
<th>150</th>
<th>S.F.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Factor</td>
<td>33</td>
<td>53</td>
<td>66</td>
<td>74</td>
<td>80</td>
<td>83</td>
<td>78</td>
</tr>
<tr>
<td>Efficiency</td>
<td>75.6</td>
<td>84.1</td>
<td>86.4</td>
<td>86.6</td>
<td>85.9</td>
<td>84.6</td>
<td>86.2</td>
</tr>
<tr>
<td>Speed</td>
<td>1790</td>
<td>1779</td>
<td>1769</td>
<td>1756</td>
<td>1743</td>
<td>1728</td>
<td>1748</td>
</tr>
<tr>
<td>Line amperes</td>
<td>3.78</td>
<td>4.22</td>
<td>4.92</td>
<td>5.82</td>
<td>6.8</td>
<td>8</td>
<td>6.41</td>
</tr>
</tbody>
</table>
Performance Graph at 230V, 60Hz, 2.0HP Typical performance - Not guaranteed values

Baldor Electric Company
Typical performance - not guaranteed values.

Winding # 35WGN909

2 HP 3 PH 60 HZ 1755 RPM 230 V 3528 M
TORQUES (LB-FT): PD=24.9 PU=15.9 LR=17.2 LRA=47.8

Percentage of Rated Output (2 HP)
NOTES:
1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.