PRODUCT INFORMATION PACKET



Model No: 199737.00 Catalog No: 199737.00 Ultimate e[™] General Purpose Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 1800 & 1500 RPM, 184TC Frame, DP



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LEESON

Nameplate Specifications

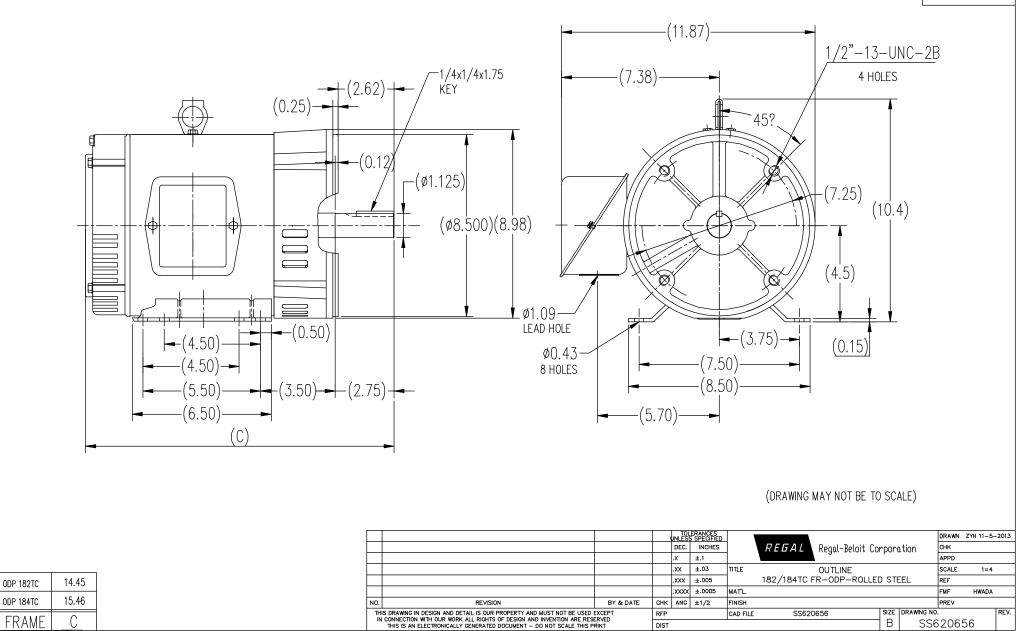
| Phase | 3 | Output HP | 5 & 3 Hp |
|------------------------|----------------------|----------------------------|---------------------|
| Output KW | 3.7 & 2.2 kW | Voltage | 230/460 & 190/380 V |
| Speed | 1755 & 1468 rpm | Service Factor | 1.15 & 1.15 |
| Frame | 184TC | Enclosure | Drip Proof |
| Thermal Protection | No Protection | Efficiency | 89.5 & 89.5 % |
| Ambient Temperature | 40 °C | Frequency | 60 & 50 Hz |
| Current | 12.8/6.4 & 9.6/4.8 A | Power Factor | 82 |
| Duty | Continuous | Insulation Class | F |
| Design Code | В | KVA Code | К |
| Drive End Bearing Size | 6206 | Opp Drive End Bearing Size | 6203 |
| UL | Recognized | CSA | Ν |
| CE | Y | IP Code | 22 |
| Number of Speeds | 1 | | |

Technical Specifications

| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
|-----------------------|------------------------------|-----------------------|------------------|
| Poles | 4 | Rotation | Reversible |
| Resistance Main | 2.25 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | т | Overall Length | 15.46 in |
| Frame Length | 6.73 in | Shaft Diameter | 1.125 in |
| Shaft Extension | 2.75 in | Assembly/Box Mounting | F1 ONLY |
| Inverter Load | VARIABLE 10:1 | | |
| Connection Drawing | EE7308LE | Outline Drawing | SS620656-184TC |

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SS620656



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| Date: | 1/30 | /2018 | | Data S | neet | | | 199737.00 |) | |
|--|---------------|-----------------|--------------|----------------|-------------------|---|----------------------------------|--|--|--------------------------|
| | | LEESON | | | | | 100/07/00 | | | |
| | | | | Moto | r Load Data | ® | | Dat | a@ 460 | v |
| ad | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | | |
| irrent (Amps) | 2.80 | 3.2 | 4.0 | 5.2 | 6.2 | 6.9 | 7.8 | 46.0 | | _ |
| rque (ft-lb) | 0.00 | 3.7 | 7.4 | 11.2 | 15.1 | 17.4 | 19.0 | 39.0 | | _ |
| PM | 1800 | 1790 | 1780 | 1755 | 1740 | 1,732 | 1725 | 0 | | _ |
| ficiency (%) F. (%) | 6.0 | 86.5 45.0 | 89.5 66.0 | 90.2 77.0 | 89.5 85.0 | 88.5 86.0 | 87.5 87.0 | 46.0 | | - |
| . (70) | | Motor Speed D | | 11.0 | 00.0 | 00.0 | 07.0 | 40.0 | | |
| | LR | Pull-Up | BD | Rated | Idle | | | | | |
| eed (RPM) | 0 | 750 | 1450 | 1740 | 1800 | | | nformation Block | | |
| irrent (Amps) | 46.0 | 53.0 | 32.0 | 6.2 | 2.80 | HP | | 5.0 | | |
| que (ft-lb) | 39.0 | 38.0 | 52.0 | 15.1 | 0.00 | Sync. RPM | | 1800 | | |
| | 8 | 11 | | | | Frame | | 184 | | |
| E | fficiency (%) | — P.F. (%) | | Current (Amps) | | Enclosure | | DP | | |
| 100.0 | | | | | 0.0 | Construction | | TDB | | |
| 100.0 | | | | | 9.0 | Voltage | | 230/460#190/380 | V | |
| | | | | | | Frequency | | 60 | Hz | |
| 90.0 | | | | | 8.0 | Design | | В | | |
| | | | | | | LR Code letter | | J | | |
| | | | | | 7.0 | Service Factor | | 1.15 | | |
| 80.0 | | | | | | Temp Rise @ I | | 50 | °C | |
| | | | | | 6.0 A | Duty | | CONT | ~ | |
| | | | | | M | Ambient | | 40 | °C | |
| 70.0 | | | | | 5.0 P | Elevation | | 1,000 | feet | |
| | | | | | 5 | Rotor/Shaft wk | 2 | 0.50 | Lb-Ft ² | |
| 60.0 | | | | | 4.0 | Ref Wdg | | CHT18440008 NONE | | |
| 80.0 | | | | | | Sound Pressur | e @ 1M | 67 | dBA | |
| _ | | | | | 3.0 | | | | | |
| | | | | | | VED Rating | | | | |
| 50.0 | | | | | | VFD Rating | | VARIABLE 1 | 0:1 | |
| 50.0 | | | | | 2.0 | Outline Dwg | | SS62 | 20656 | |
| | / | | | | 2.0 | Outline Dwg Conn. Diag | - 11 ¹ 1 ¹ | SS62 | | |
| 40.0 | | | | | - 2.0 | Outline Dwg | cifications: | SS62 | 20656 | |
| | | | | | | Outline Dwg Conn. Diag Additional Spec | cifications: | SS62 | 20656 | |
| | | | | | | Outline Dwg Conn. Diag Additional Spec | | SS62 | 20656 | |
| 40.0 | 40% | 60% 80% | 5 100% | 120% | 1.0 | Outline Dwg Conn. Diag Additional Spec 0 0 R1 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 308LE X2 | |
| 40.0 | 40% | 60% 80% LOAD | 5 100% | 120% 1 | - 1.0 | Outline Dwg Conn. Diag Additional Spec 0 | EQUI | SS62 EE73 V CKT (OHMS / PHASE) | 20656 308LE | |
| 40.0 | 40% | | 5 100% | | - 1.0 | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 308LE X2 | |
| 40.0 0% 20% | 40% | | | | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 008LE X2 4.1160 | |
| 40.0 | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 308LE X2 | 108. |
| 40.0 0% 20% | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 008LE X2 4.1160 | 108. |
| | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 | 108. |
| 40.0 0% 20% | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 008LE X2 4.1160 | 108. |
| | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 | 108. |
| | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 | 108. |
| 40.0 30.0 0% 20% | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 | 108. |
| | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 | 108. |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 T | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 | 108. |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 8 | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 40.0 | 108. A M |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 0 30.0 0% 20% | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 | 108. A M P |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 30.0 0% 20% | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 40.0 | 108. A M |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 0 30.0 0% 20% | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 40.0 | A M P |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 30.0 0% 20% | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 40.0 | A M P S |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 30.0 0% 20% | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 40.0 30.0 | A M P S |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 30.0 0% 20% | 40% | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 40.0 30.0 | 108. A M P S |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 50.0 40.0 20% 20% 20% | | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 40.0 30.0 20.0 | 108. M P S |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 T 0 R 30.0 0% 20% | | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 40.0 30.0 | 108. M P S |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 50.0 40.0 20% 20% 20% | | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 40.0 30.0 20.0 | 108 A M P S |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 50.0 40.0 20% 10.0 10.0 | | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 R1 1.3040 | EQUI R2 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 40.0 30.0 20.0 10.0 | 108. M P S |
| 40.0 30.0 0% 20% 60.0 50.0 40.0 50.0 40.0 20% 20% 20% | | | | Speed - | 1.0 0.0 40% | Outline Dwg Conn. Diag Additional Spec 0 0 1.3040 | EQUI R2 1.5310 | SS62 EE73 V CKT (OHMS / PHASE) X1 | 20656 108LE X2 4.1160 60.0 50.0 40.0 30.0 20.0 | 108. M P S |