

# PRODUCT INFORMATION PACKET



Model No: 119523.00  
Catalog No: 119523.00  
2 HP Washdown Motor, 3 phase, 1800 RPM, 208-230/460 V, 56HC Frame, TEFC  
Washdown Motors



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### Nameplate Specifications

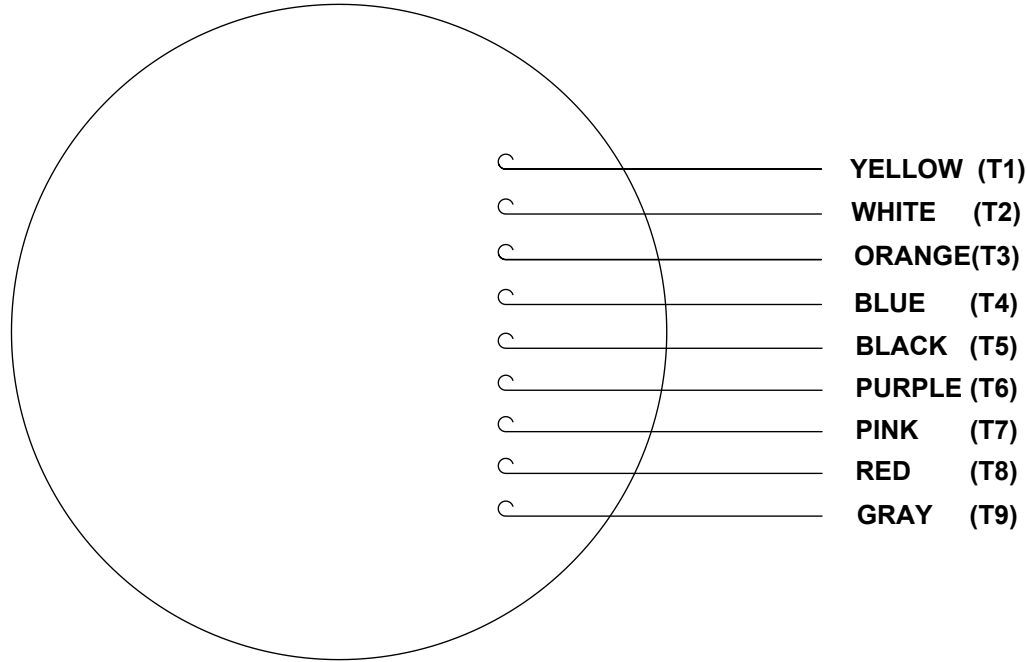
|                        |               |                            |                             |
|------------------------|---------------|----------------------------|-----------------------------|
| Output HP              | 2 Hp          | Output KW                  | 1.5 kW                      |
| Frequency              | 60 Hz         | Voltage                    | 208-230/460 V               |
| Current                | 6.0-5.8/2.9 A | Speed                      | 1745 rpm                    |
| Service Factor         | 1.15          | Phase                      | 3                           |
| Efficiency             | 86.5 %        | Power Factor               | 75.6                        |
| Duty                   | Continuous    | Insulation Class           | F                           |
| Design Code            | B             | KVA Code                   | L                           |
| Frame                  | 56HC          | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No            | Ambient Temperature        | 40 °C                       |
| Drive End Bearing Size | 6205          | Opp Drive End Bearing Size | 6205                        |
| UL                     | Recognized    | CSA                        | Y                           |
| CE                     | Y             | IP Code                    | 69                          |
| Number of Speeds       | 1             |                            |                             |

### Technical Specifications

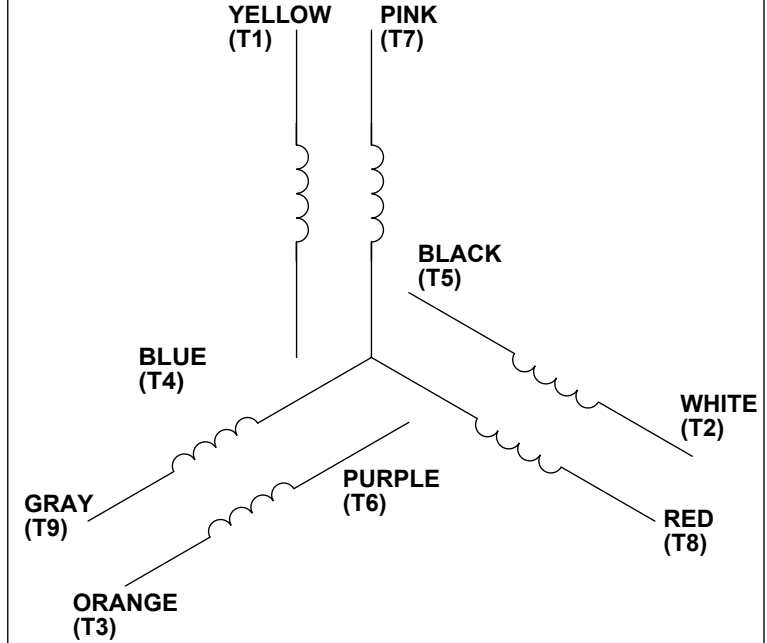
|                       |                              |                       |                  |
|-----------------------|------------------------------|-----------------------|------------------|
| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method       | Line Or Inverter |
| Poles                 | 4                            | Rotation              | Reversible       |
| Resistance Main       | 6 Ohms                       | Mounting              | Rigid Base       |
| Motor Orientation     | Horizontal                   | Drive End Bearing     | Ball             |
| Opp Drive End Bearing | Ball                         | Frame Material        | Stainless Steel  |
| Shaft Type            | NEMA 56                      | Overall Length        | 13.19 in         |
| Frame Length          | 8.25 in                      | Shaft Diameter        | 0.625 in         |
| Shaft Extension       | 1.87 in                      | Assembly/Box Mounting | F1 ONLY          |
| Inverter Load         | CONSTANT 6:1                 |                       |                  |
| Outline Drawing       | 028896-825                   | Connection Drawing    | 005010.52        |



VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



## LINE LEADS



| VOLTAGE | L1    | L2    | L3    | JOIN & INSULATE               |
|---------|-------|-------|-------|-------------------------------|
| HIGH    | T1    | T2    | T3    | (T4,T7)<br>(T5,T8)<br>(T6,T9) |
| LOW     | T1,T7 | T2,T8 | T3,T9 | T4,T5,T6                      |

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|   |                           |                         |
|---|---------------------------|-------------------------|
| DRAWING REVISION<br><b>C</b>  | REVISION BY<br><b>PVR</b> | DATE<br><b>04/23/14</b> |
| ECO<br><b>ECO-0049985</b>   | APPROVED BY<br><b>JD</b>  | DATE<br><b>04/23/14</b> |
| ECO DESCRIPTION<br><b>UPDATED PER ECO-0049985</b>   |                           |                         |
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|  |         |           |       |
|--|---------|-----------|-------|
| TOLERANCES UNLESS OTHERWISE SPECIFIED:                               |         |           |       |
| DEC.   | INCH    | mm        | ANGLE |
| .X   | ±0.1    | [±2.5]    | ±0.5° |
| .XX  | ±0.01   | [±0.25]   |       |
| .XXX   | ±0.005  | [±0.127]  |       |
| .XXXX  | ±0.0005 | [±0.0127] |       |
| REMOVE BURRS & BREAK SHARP   |         |           |       |
| EDGES: .003/.015 [.076/.381]   |         |           |       |
| CORNER FILLETS: .02 [.51]  |         |           |       |
| MACHINED SURFACES: 125/3.2   |         |           |       |
| INCH <input type="checkbox"/> mm <input checked="" type="checkbox"/> |         |           |       |
| mm SHOWN IN [BRACKETS]   |         |           |       |

|                        |
|------------------------|
| DRAWN BY<br><b>LST</b> |
| DATE<br><b>4/3/14</b>  |
| APPROVED BY            |
| DATE                   |
| PROCESS/FINISH         |
| THIRD ANGLE PROJECTION |

|  |                                   |
|--|-----------------------------------|
| <b>Regal Beloit America, Inc.</b>                                    |                                   |
| DESCRIPTION<br><b>LEAD ASSY<br/>EXT. WIRING DIA. 3 PH. W/O PROT.</b> |                                   |
| MATERIAL   |                                   |
| SIZE<br><b>A</b>   | DRAWING NUMBER<br><b>00501052</b> |
| SHEET<br><b>1 OF 1</b>   |                                   |

Data Sheet

Date: 1/30/2018

119523.00



Data @ 460 V

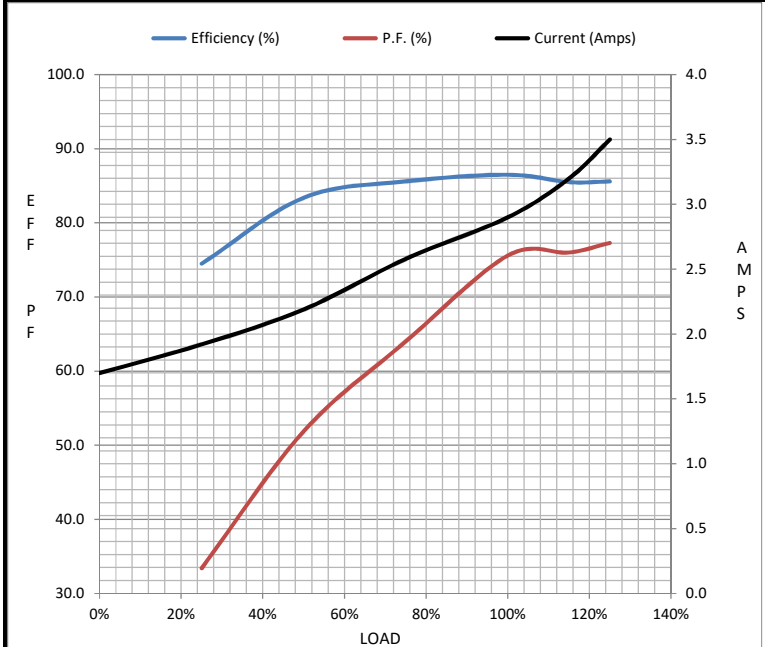
Motor Load Data

| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 1.70 | 1.92 | 2.19 | 2.58 | 2.90 | 3.2   | 3.5  | 26.5 |
| Torque (ft-lb) | 0.00 | 1.50 | 3.0  | 4.5  | 6.0  | 6.5   | 7.5  | 18.8 |
| RPM            | 1800 | 1787 | 1774 | 1763 | 1751 | 1.730 | 1732 | 0    |
| Efficiency (%) |      | 74.5 | 83.4 | 85.6 | 86.5 | 85.5  | 85.6 |      |
| P.F. (%)       | 7.1  | 33.4 | 51.9 | 64.0 | 75.6 | 76.0  | 77.3 | 42.0 |

Motor Speed Data

|                | LR   | Pull-Up | BD   | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 775     | 1085 | 1751  | 1800 |
| Current (Amps) | 26.5 | 24.4    | 14.2 | 2.90  | 1.70 |
| Torque (ft-lb) | 18.8 | 15.0    | 24.6 | 6.0   | 0.00 |

| Information Block           |                         |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
| HP                          | 2.0                     |        |        |        |
| Sync. RPM                   | 1800                    |        |        |        |
| Frame                       | 140                     |        |        |        |
| Enclosure                   | TEFC                    |        |        |        |
| Construction                | TFR                     |        |        |        |
| Voltage                     | 208-230/460#190/380 V   |        |        |        |
| Frequency                   | 60 Hz                   |        |        |        |
| Design                      | A                       |        |        |        |
| LR Code letter              | L                       |        |        |        |
| Service Factor              | 1.15                    |        |        |        |
| Temp Rise @ FL              | 53 °C                   |        |        |        |
| Duty                        | CONT                    |        |        |        |
| Ambient                     | 40 °C                   |        |        |        |
| Elevation                   | 1,000 feet              |        |        |        |
| Rotor/Shaft wk <sup>2</sup> | 0.16 Lb-Ft <sup>2</sup> |        |        |        |
| Ref Wdg                     | T634340 FR              |        |        |        |
| Sound Pressure @ 1M         | 65 dBA                  |        |        |        |
| VFD Rating                  | CONSTANT 6:1            |        |        |        |
| Outline Dwg                 | 028896-825              |        |        |        |
| Conn. Diag                  | 005010.52               |        |        |        |
| Additional Specifications:  |                         |        |        |        |
| 0                           |                         |        |        |        |
| 0                           |                         |        |        |        |
| EQUIV CKT (OHMS / PHASE)    |                         |        |        |        |
| R1                          | R2                      | X1     | X2     | Xm     |
| 0.0000                      | 0.0000                  | 0.0000 | 0.0000 | 0.0000 |



Speed - Torque Curve

