

# Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS

Motor type: **DP200 HPS - Definite Purpose motor - NEMA Premium Efficiency**

FS: **5011S - 2p - 600 hp -**

|                  |                 |           |
|------------------|-----------------|-----------|
| Client order no. | Item-No.        | Offer no. |
| Order no.        | Consignment no. | Project   |
| Remarks          |                 |           |

**Electrical data** **Class I Division 2 Gr. A, B, C or D T3**

| U [V]             | $\Delta/Y$      | f [Hz]  | P [HP] | P [kW] | n [rpm]                               | I Load [Amps] |   |        |        |                | Nom. Eff Load [%] |            |      | Pwr. Factor Load [%] |      |      | Torque [lb-ft] | T <sub>A</sub> /T <sub>N</sub> LRT [%] | T <sub>k</sub> /T <sub>N</sub> BDT [%] |
|-------------------|-----------------|---|--------|--------|---------------------------------------|---------------|---|--------|--------|----------------|-------------------|------------|------|----------------------|------|------|----------------|--|--|
|                   |                 |   |        |        |                                       | 4/4           | 3/4                                       | 1/2    | 0      | LRC            | 4/4               | 3/4        | 2/4  | 4/4                  | 3/4  | 2/4  |                |  |  |
| 460               | $\Delta \Delta$ | 60  | 600.00 | 447.60 | 3,585                                 | 650           | 500.30                                    | 361.90 | 145.00 | 4250.0         | 96.7              | 96.8       | 96.3 | 89.1                 | 87.0 | 80.6 | 877.7          | 190                                    | 230                                    |
| Frame Type: 5011S |                 | Type of constr.: (A) Foot Mounted Horizontal (IMB3) |        |        | Ins. Cl.: Standard Class H Insulation |               | Motor Prot.: K: Stator RTD's, 2 Per Phase |        |        | NEMA Des.: -/- |                   | S.F.: 1.15 |      |                      |      |      |                |  |  |
| Mtr. WT: 4,631    |                 |   |        |        | Temp. Rise Cl.: B                     |               | Amb. Temp.: + 40 to °C @1000 m            |        |        | kVA: G         |                   | IP 55      |      |                      |      |      |                |  |  |


**Mechanical data**

|                                      |                          |                         |                              |                   |      |      |                      |                |           |
|--------------------------------------|--------------------------|-------------------------|------------------------------|-------------------|------|------|----------------------|----------------|-----------|
| Sound level (SPL / SWL) at 60 Hz     | 82.0 dB(A) / 95.0 dB(A)  | Thickener               | Polyurea                     |                   |      |      |                      |                |           |
| Octave Band Center Frequencies Hertz |                          | Safe Stall Time Hot     | 17 s                         |                   |      |      |                      |                |           |
| 250                                  | 500                      | 1000                    | 2000                         | 4000              | 8000 | Hz   | Safe Stall Time Cold | 22 s           |           |
| SPL@3                                | 79.0                     | 74.0                    | 73.0                         | 72.0              | 72.0 | 67.0 | dB(A)                | Frame material | Cast iron |
| Moment of inertia                    | 121.0 Lb-ft <sup>2</sup> | Color, paint shade      | RAL 7030                     |                   |      |      |                      |                |           |
| Ext Load Inertia Capability:         | 443.0 Lb ft <sup>2</sup> | Coating (paint finish)  | Standard Alkyed + Epoxy (C2) |                   |      |      |                      |                |           |
| <b>Bearings</b>                      |                          | <b>Ventilation Type</b> |                              |                   |      |      |                      |                |           |
| Bearing DE   NDE                     | 6316 Z C3 S0             | 6316 Z C3 S0 insulated  | Method of cooling            | TEFC              |      |      |                      |                |           |
| Bearing_Type                         | Ball Bearing             | Ball Bearing            | Direction of rotation        | Bi-Directional    |      |      |                      |                |           |
| AFBMA:                               | 80BC03JP3                | 80BC03JP3               | Fan Material                 | Polypropylene ESD |      |      |                      |                |           |
| <b>Grease</b>                        |                          | VFD                     | CT: 4:1 VT: 20:1             |                   |      |      |                      |                |           |
| Capacity                             | 9 oz                     | 9 oz                    | Space heaters                | without           |      |      |                      |                |           |
| Grease Type:                         | Exxon Mobil EM           | Brake:                  | -/-                          |                   |      |      |                      |                |           |

**Terminal box**

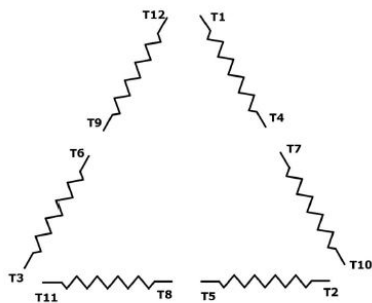
|                      |   |                          |  |
|----------------------|---|--------------------------|--|
| Lead Wire Connection | 12 TERMINAL - Connection DELTA          | Terminal box position    | (1) LHS Mount - View From DE (F-1) - DE or Center of Motor |
| Voltage              | L1 L1 L1 Connected together             | Material of terminal box | Cast Iron  |
| ---                  | ---                                     | Cable entry              | (1) 5" NPT   |
| RUN                  | T12-T7-T6-T1 T10-T8-T4-T2 T11-T9-T5-T13 |                          | $\Delta \Delta$  |

|   |  |
|---|--|
| <b>Notes:</b>   |  |
| I <sub>r</sub> /I <sub>N</sub> = locked rotor current / current nominal | 3) Value is valid only for DOL operation with motor design IC411 |
| M <sub>r</sub> /M <sub>N</sub> = locked rotor torque / torque nominal   | 2) at rated power / at full load                                 |
| M <sub>b</sub> /M <sub>N</sub> = break down torque / nominal torque     |  |

|  |                     |                  |             |   |  |
|--|---------------------|------------------|-------------|---|--|
| responsible dep.   | technical reference | created by       | approved by | <i>Technical data are subject to change! There may be discrepancies between software and customer interface</i> |  |
| DI MC LVM  |                     | DT Configurator  |             |   |  |
|  | document type       | document status  |             | customer  |  |
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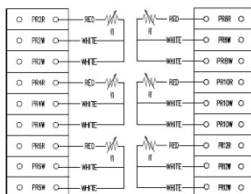
Main terminal diagram



| 12 LEAD DELTA |                    |       |
|---------------|--------------------|-------|
| LINES         | CONNECT TOGETHER   | CONN. |
| L1            | T12 - T7 - T6 - T1 | ΔΔ    |
| L2            | T10 - T8 - T4 - T2 |       |
| L2            | T11 - T9 - T5 - T3 |       |

Motor protection

3 WIRE STATOR RTDs



responsible dep.  
DI MC LVM

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