

Data sheet for three-phase Squirrel-Cage-Motors ABB

Motor type: SD200 NEMA Premium Next Generation FS: 5013S - 4p - 800 hp -

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

Electrical data

| U [V] | Δ / Y | f [Hz] | P [HP] | P [kW] | n [rpm] | I Load [Amps] | | | | | LRC | Nom. Eff Load [%] | | | Pwr. Factor Load [%] | | | Torque [lb-ft] | T _A /T _N LRT [%] | T _k /T _N BDT [%] |
|-------------------|-------|-----------|--------------------|-----------|------------|---------------|-----|-----|---|-------------------|-----|--------------------------------|--------------|-----|----------------------|------------|----|-------------------|---|---|
| | | | | | | 4/4 | 3/4 | 1/2 | 0 | 4/4 | | 3/4 | 2/4 | 4/4 | 3/4 | 2/4 | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| Frame Type: 5013S | | | Type of constr.: | | | | | | | | | | Motor Prot.: | | | NEMA Des.: | | S.F.: 1.15 | | |
| Mtr. WT: lbs | | | Insulation Class.: | | | | | | | Temp. Rise Cl.: B | | Amb. Temp.: + 40 to °C @1000 m | | | kVA: | | IP | | | |


Mechanical data

| Sound level (SPL / SWL) at 60 Hz | | | | | | | dB(A) / dB(A) | | Thickener | | Polyurea | | | | | | |
|--|--|--|--|--|--|--|---------------|--|----------------------|--|------------------------|--|---|------------------|-----------|-----------------|--|
| Octave Band Center Frequencies Hertz | | | | | | | | | Safe Stall Time Hot | | | | s | | | | |
| 250 500 1000 2000 4000 8000 Hz | | | | | | | | | Safe Stall Time Cold | | | | s | | | | |
| SPL@3 | | | | | | | | | dB(A) | | Frame material | | | | Cast iron | | |
| Moment of inertia | | | | | | | | | Lb-ft² | | Color, paint shade | | | | | | |
| Ext Load Inertia Capability: | | | | | | | | | Lb ft² | | Coating (paint finish) | | | | | | |
| Bearings | | | | | | | | | | | | | | Ventilation Type | | | |
| Bearing DE NDE | | | | | | | 6322 Z C3 S0 | | 6322 Z C3 S0 | | Method of cooling | | | | TEFC | | |
| Bearing_Type | | | | | | | Ball Bearing | | Ball Bearing | | Direction of rotation | | | | | | |
| AFBMA: | | | | | | | 110BC03JP3 | | 110BC03JP3 | | Fan Material | | | | | | |
| Grease | | | | | | | | | | | | | | VFD | | CT: VT: 20:1 | |
| Capacity | | | | | | | 17 oz | | 17 oz | | Space heaters | | | | without | | |
| Grease Type: | | | | | | | | | | | | | | Brake: | | -/- | |

Terminal box


| | | | | | | |
|----------------------|----|----|----|--------------------|--------------------------|--|
| Lead Wire Connection | | | | | Terminal box position | |
| Voltage | L1 | L2 | L3 | Connected together | Material of terminal box | |
| | | | | | Cable entry | |
| | | | | | -/- | |

| | | |
|---|--|--|
| Notes: | | |
| I _L /I _N = locked rotor current / current nominal | | 3) Value is valid only for DOL operation with motor design IC411 |
| M _L /M _N = locked rotor torque / torque nominal | | 2) at rated power / at full load |
| M _b /M _N = break down torque / nominal torque | | |

| | | | | | | | |
|---|-------------------------------------|-------------------|-------------|--|-----------------------------------|----------------|-------------|
| Responsible department IN LVM | Technical reference | Created by SPC | Approved by | Technical data are subject to change! There may be discrepancies | | | |
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Main terminal diagram

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