

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

Motor type: FS: 324T - p - 20 hp -

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

|         |
|---------|
| Remarks |
|---------|

|                 |  |
|-----------------|--|
| Electrical data |  |
|-----------------|--|

[illegible]

|                  |   |                   |                                    |            |            |
|------------------|---|-------------------|------------------------------------|------------|------------|
| Frame Type: 324T | Type of constr.:                              |                   | Motor Prot.:                       | NEMA Des.: | S.F.: 1.15 |
| Mtr. WT: lbs     | Insulation Class.:Standard Class F Insulation | Temp. Rise Cl.: B | Amb. Temp.: + 40 to -20 °C @1000 m | kVA:       | IP 54      |

|                 |
|-----------------|
| Mechanical data |
|-----------------|


| Sound level (SPL / SWL) at 60 Hz     |  |      |  | dB(A) / dB(A) |  |                      |  | Thickener                    |  |
|--------------------------------------|--|------|--|---------------|--|----------------------|--|------------------------------|--|
| Octave Band Center Frequencies Hertz |  |      |  |               |  |                      |  | Safe Stall Time Hot          |  |
| 250                                  |  | 500  |  | 1000          |  | 2000                 |  | s                            |  |
| 4000                                 |  | 8000 |  | Hz            |  | Safe Stall Time Cold |  | s                            |  |
| SPL@3                                |  |      |  | dB(A)         |  |                      |  | Frame material               |  |
| Moment of inertia                    |  |      |  | Lb-ft²        |  |                      |  | Color, paint shade           |  |
| Ext Load Inertia Capability:         |  |      |  | Lb ft²        |  |                      |  | Standard Paint - RAL7030     |  |
| Bearings                             |  |      |  |               |  |                      |  | Coating (paint finish)       |  |
| Bearing DE   NDE                     |  |      |  |               |  |                      |  | Standard Alkyed + Epoxy (C2) |  |
| Bearing_Type                         |  |      |  | Ball Bearing  |  |                      |  | Ventilation Type             |  |
| AFBMA:                               |  |      |  |               |  |                      |  | Method of cooling            |  |
| Grease                               |  |      |  |               |  |                      |  | Direction of rotation        |  |
| Capacity                             |  |      |  | oz            |  |                      |  | Fan Material                 |  |
| Grease Type:                         |  |      |  |               |  |                      |  | VFD                          |  |
|                                      |  |      |  |               |  |                      |  | CT: VT:                      |  |
|                                      |  |      |  |               |  |                      |  | Space heaters                |  |
|                                      |  |      |  |               |  |                      |  | -/-                          |  |
|                                      |  |      |  |               |  |                      |  | Brake:                       |  |
|                                      |  |      |  |               |  |                      |  | -/-                          |  |

Terminal box

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


## Notes:

|   |  |
|---|--|
| $I_{rl}/I_N$ = locked rotor current / current nominal | 3) Value is valid only for DOL operation with motor design IC411 |
| $M_{rl}/M_N$ = locked rotor torque / torque nominal   | 2) at rated power / at full load                                 |
| $M_{br}/M_N$ = break down torque / nominal torque     |  |

|   |                                      |                             |                |  |                |                 |  |
|---|--------------------------------------|-----------------------------|----------------|--|----------------|-----------------|--|
| Responsible department<br>IN LVM  | Technical reference                  | Created by<br>SPC           | Approved by    | Technical data are subject to change! There may be discrepancies |                |                 |  |
|  | Document type<br>Datasheet           | Document status<br>Released |                | customer   |                |                 |  |
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Main terminal diagram

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|----------------------------------|--------------------------------------|------------|--------------------------------------|--|-----------------------------|---|-------------|
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|                                  | Document type<br>Wiring diagramm     |            |                                      | Document status<br>Released  |                             |  |             |
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