

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

Motor type: FS: - p - hp -

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

Electrical data

| U<br>[V]     | Δ / Y | f<br>[Hz] | P<br>[HP]          | P<br>[kW] | n<br>[rpm] | I Load [Amps] |     |     |   |                   |  | Nom. Eff Load [%]              |              |     | Pwr. Factor Load [%] |     |      | Torque     | T <sub>A</sub> /T <sub>N</sub> | T <sub>k</sub> /T <sub>N</sub> |  |
|--------------|-------|-----------|--------------------|-----------|------------|---------------|-----|-----|---|-------------------|--|--------------------------------|--------------|-----|----------------------|-----|------|------------|--------------------------------|--------------------------------|--|
|              |       |           |                    |           |            | 4/4           | 3/4 | 1/2 | 0 | LRC               |  | 4/4                            | 3/4          | 2/4 | 4/4                  | 3/4 | 2/4  | [lb-ft]    | LRT [%]                        | BDT [%]                        |  |
|              |       |           |                    |           |            |               |     |     |   |                   |  |                                |              |     |                      |     |      |            |                                |                                |  |
| Frame Type:  |       |           | Type of constr.:   |           |            |               |     |     |   |                   |  |                                | Motor Prot.: |     |                      |     |      | NEMA Des.: |                                | S.F.:                          |  |
| Mtr. WT: lbs |       |           | Insulation Class.: |           |            |               |     |     |   | Temp. Rise Cl.: B |  | Amb. Temp.: + 40 to °C @1000 m |              |     |                      |     | kVA: |            | IP IP65                        |                                |  |


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      4000      8000 |  |  |  |  |  |  | Hz            |  | s                            |  |
| SPL@3  |  |  |  |  |  |  | dB(A)         |  | Safe Stall Time Cold         |  |
|  |  |  |  |  |  |  |               |  | s                            |  |
|  |  |  |  |  |  |  |               |  | Frame material               |  |
|  |  |  |  |  |  |  |               |  | cast iron                    |  |
| Moment of inertia                                    |  |  |  |  |  |  | Lb-ft²        |  | Color, paint shade           |  |
| Ext Load Inertia Capability:                         |  |  |  |  |  |  | Lb ft²        |  | Coating (paint finish)       |  |
|  |  |  |  |  |  |  |               |  | Standard Alkyed + Epoxy (C2) |  |
| Bearings   |  |  |  |  |  |  |               |  | Ventilation Type             |  |
| Bearing DE   NDE                                     |  |  |  |  |  |  |               |  | Method of cooling            |  |
| Bearing_Type   |  |  |  |  |  |  | Ball Bearing  |  | TEFC                         |  |
| AFBMA:   |  |  |  |  |  |  |               |  | Direction of rotation        |  |
|  |  |  |  |  |  |  |               |  | Fan Material                 |  |
| Grease   |  |  |  |  |  |  |               |  | Polypropylen ESD             |  |
| Capacity   |  |  |  |  |  |  | oz            |  | VFD                          |  |
|  |  |  |  |  |  |  |               |  | CT:    VT: 20:1              |  |
| Grease Type:   |  |  |  |  |  |  | oz            |  | 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 <sub>L</sub> /I <sub>N</sub> = locked rotor current / current nominal |  |  |  |  | 3) Value is valid only for DOL operation with motor design IC411 |  |  |  |  |
| M <sub>L</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 department<br>IN LVM  |  | Technical reference                  | Created by<br>SPC | Approved by |                             | Technical data are subject to change! There may be discrepancies |          |                |             |
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|   |  |                                      |                   |             |                             |  |          |                |             |
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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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