

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

Motor type: FS: 215T - p - 3 hp -

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

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| Remarks |
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|                  |   |                   |                                    |            |            |
|------------------|---|-------------------|------------------------------------|------------|------------|
| Frame Type: 215T | 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 55      |

| Mechanical data       |                           |
|-----------------------|---------------------------|
| Modulus of elasticity | 190,000 N/mm <sup>2</sup> |
| Yield strength        | 235 N/mm <sup>2</sup>     |
| Tensile strength      | 410 N/mm <sup>2</sup>     |
| Elongation at break   | 22%                       |
| Impact strength       | 27 J/m <sup>2</sup>       |
| Hardness              | 120 HB                    |
| Weldability           | Good                      |
| Corrosion resistance  | Good                      |
| Formability           | Good                      |
| Recycling             | 100%                      |


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

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

|   |  |                                      |                   |             |  |                                   |                |             |
|---|--|--------------------------------------|-------------------|-------------|--|-----------------------------------|----------------|-------------|
| 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       |             |
|   |  | Document title<br>1LE2321-2AD2.-.... |                   |             | Document number  |                                   |                |             |
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Main terminal diagram

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|----------------------------------|--------------------------------------|------------|--------------------------------------|--|-----------------------------|---|-------------|
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|                                  | Document type<br>Wiring diagramm     |            |                                      | Document status<br>Released  |                             |  |             |
|                                  | Document title<br>1LE2321-2AD2.-.... |            |                                      | Document number<br>WDS-240428-182724   |                             |   |             |
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