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|  | <b>STANDARD SPECIFICATION</b><br><b>No:614.002</b><br><b>Annex C- Particular Specification for LV motors from 270HP to 430HP</b> | Edition: 11<br>Date: 10.2021 | Page:1<br>Of : 3 |
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Prepared by: **Tatyana Doskalovich- Tatyana**

Date of edition: **08/2025**

No. edition: **1**

2052700

Destination: **Tahanam maagar Ein Ofarim** Attached documentation:

The tenderer is requested to provide the information or data for each item in the appropriate column.

| No | Item                                                                                | Required      | Offered                      | Remark         |
|----|-------------------------------------------------------------------------------------|---------------|------------------------------|----------------|
| 1  | Technical data according to standard enquiry specification No 614.002 edition 11    | YES           | YES                          |                |
| 2  | Motor type                                                                          | Asynchronous/ | Asynchronous                 |                |
| 3  | Shaft type of vertical motor                                                        | Solid         | Solid                        |                |
| 4  | Nominal output HP                                                                   | 430           | 430                          |                |
| 5  | Service factor                                                                      | 1.15          | 1.15                         |                |
| 6  | Nominal voltage V                                                                   | 400/690       | 400/690                      | D/Y.           |
| 7  | Nominal current A                                                                   |               | 551.5/318.4                  | D/Y.           |
| 8  | Locked rotor current A                                                              |               | 6.2xIn                       | See chapter 15 |
| 9  | No load current A                                                                   |               | 107/62                       | D/Y.           |
| 10 | Nominal motor torque                                                                |               | 2055 Nm                      |                |
| 11 | Breakdown motor torque                                                              |               | 2.5xMn                       |                |
| 12 | Locked rotor motor torque                                                           |               | 0.8xMn                       |                |
| 13 | Estimated breakaway torque of load                                                  |               |                              |                |
| 14 | Cos φ (power factor) 115% Load<br>100% load<br>75% load<br>50% load<br>Locked rotor |               | 0.87<br>0.87<br>0.86<br>0.82 |                |
| 15 | Efficiency 115% load<br>100% load<br>75% load<br>50% load                           |               | 96.3<br>96.5<br>96.7<br>96.2 |                |
| 16 | Synchronous speed RPM                                                               | 1500          | 1500                         |                |
| 17 | Asynchronous speed RPM                                                              |               | 1490                         |                |
| 18 | Rotor material                                                                      | Cu            | Cu                           | See chapter 8  |
| 19 | Kind and class of insulation                                                        | F, V.P.I.     | F, V.P.I.                    | See chapter 17 |
| 20 | Temperature rise of winding, continuous duty                                        | B             | B                            |                |
| 21 | Operation with frequency converter                                                  | Yes           | Yes                          | See chapter 6  |
| 22 | Winding temperature elements:<br>- No. of PT100                                     | 6             | 6                            |                |

|                                                                                   |                                                                                                                                  |                              |                  |
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|    |                                                                               |                    |              |                              |
|----|-------------------------------------------------------------------------------|--------------------|--------------|------------------------------|
| 23 | Motor heater                                                                  | Yes                | 2x0.2 kW     | See chapter 23               |
| 24 | Devices for vibration detector installation                                   | Yes                | Yes          |                              |
| 25 | Non-reverse ratchet                                                           | No                 | No           | For hollow shaft motors only |
| 26 | Protecting "skirt" for shaft                                                  | Yes                | Yes          |                              |
| 27 | Main power terminals box, dimensions (or no. & cross section of motor cables) | 2x(3x120+70)       | 2x(3x120+70) | See chapter 18.1             |
| 28 | Nominal bearing down thrust, 25,000h, L10 life                                | 8t                 | 8t           |                              |
| 29 | Momentary up thrust 30%                                                       | Yes                | Yes          |                              |
| 30 | Thrust bearing lubrication                                                    | Mineral oil grease | Mineral oil  |                              |
| 31 | Thrust bearing cooling                                                        | Air                | Air          |                              |
| 32 | Thrust bearing type                                                           |                    | 29330E       |                              |
| 33 | Guide bearing lubrication                                                     | grease             | grease       |                              |
| 34 | Guide bearing type                                                            |                    | 6220-C3      |                              |
| 35 | Guide bearing cooling                                                         | Air                | Air          |                              |
| 36 | Enclosure:                                                                    | - TEFC/(IP55)      | WPII         | at least<br>See chapter 7.2  |
| 37 | Color RAL 5009                                                                |                    | RAL 5009     | See chapter 7.1              |
| 38 | Motor frame                                                                   |                    | CV355        |                              |
| 39 | Rabbit diameter AK inch                                                       |                    | 22"          |                              |
| 40 | Bore diameter BX (VHS motor) inch                                             |                    | -            |                              |
| 41 | Noise pressure level -1m dB(A)                                                |                    | 82           |                              |
| 42 | Warranty                                                                      |                    |              | See chapter 28               |
| 43 | Net weight                                                                    |                    | 2300 KG      |                              |
| 44 | Net weight of rotating part                                                   |                    | 700 KG       |                              |
| 45 | Manufacturer                                                                  |                    | AMPPERA      |                              |
| 46 | Quantity                                                                      | 2                  | 2            |                              |
| 47 | Time of delivery                                                              |                    |              |                              |
| 48 | Options                                                                       |                    |              |                              |