

Model No. 8-Pole cage motor 7RN 355S 250kW D400V 50Hz IM2021-FF840

| U<br>(V) | Δ / Y<br>Conn | f<br>[Hz] | P<br>[kW] | P<br>[hp] | I<br>[A] | n<br>[RPM] | T<br>[Nm] | IE<br>Class | % EFF at __ load |       |       | PF at __ load |       |       | I <sub>A</sub> /I <sub>N</sub><br>[pu] | T <sub>A</sub> /T <sub>N</sub><br>[pu] | T <sub>K</sub> /T <sub>N</sub><br>[pu] |
|----------|---------------|-----------|-----------|-----------|----------|------------|-----------|-------------|------------------|-------|-------|---------------|-------|-------|----------------------------------------|----------------------------------------|----------------------------------------|
|          |               |           |           |           |          |            |           |             | FL               | 3/4FL | 1/2FL | FL            | 3/4FL | 1/2FL |                                        |                                        |                                        |
| 400      | D             | 50        | 250       | 335       | 475      | 744        | 3209,0    | IE3         | 94,6             | 95,0  | 95,0  | 0,80          | 0,75  | 0,64  | 7,10                                   | 2,18                                   | 2,72                                   |
| 690      | Y             |           |           |           | 257      |            |           |             |                  |       |       |               |       |       |                                        |                                        |                                        |
| 460      | D             | 60        | 300       | 402,1     | 490      | 893        | 3208,3    | N/A         | 95,0             | 95,4  | 95,2  | 0,81          | 0,77  | 0,67  | 7,70                                   | ####                                   | 2,50                                   |

|                               |                              |
|-------------------------------|------------------------------|
| Motor type                    | 7RN355S08E31                 |
| Enclosure                     | Totally Enclosed Fan Cooling |
| Frame Material                | Cast iron                    |
| Frame size                    | 355S                         |
| Duty                          | S1                           |
| Voltage                       | 400 V                        |
| Frequency                     | 50 Hz                        |
| Power output                  | 250 kW                       |
| Insulation class              | F                            |
| Ambient temperature           | -20 till 40 °C               |
| Temperature rise              | -                            |
| Temperature rise winding      | 65 K                         |
| Temperature rise surface      |                              |
| Altitude above sea level      | 1000 mtr                     |
| Hazardous area classification | Safe area                    |

|                    |              |
|--------------------|--------------|
| Rotor type         | Cage motor   |
| Bearing type       | 6320/C4      |
| Lubrication method | 60gr/6000hrs |
| Type of grease     | Unirex N3    |

|                          |            |
|--------------------------|------------|
| Phase resistance at 20°C | 0,0138 Ohm |
| Country of origin        | CZ         |

| Voltage/Freq  | Locked rotor<br>Torque [%<br>nom] | Starting<br>current [%<br>nom] | Pull-up<br>Torque [%<br>nom] | Breakdown<br>Torque [%<br>nom] | No-load<br>Current [A] |
|---------------|-----------------------------------|--------------------------------|------------------------------|--------------------------------|------------------------|
| @ D 400V 50Hz | 218%                              | 709%                           | 211%                         | 272%                           | 164 A                  |
| @ D 460V 60Hz | 2220%                             |                                |                              | 250%                           |                        |

#### NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Voltage, Frequency are as per IEC60034-1

Technical data are subject to change. There may be discrepancies between calculated and name plate values.

|            |                  |               |
|------------|------------------|---------------|
| Efficiency | Europe           | Global IEC    |
| Standards  | EN-IEC: 60034-30 | IEC: 60034-30 |

This is an uncontrolled copy, data can be changed anytime.

|                                    |                          |
|------------------------------------|--------------------------|
| Degree of protection               | IP55                     |
| Mounting type                      | IM2021-FF840             |
| Cooling method                     | IC411                    |
| Motor weight - approx.             | 1960 kg                  |
| Gross weight - approx.             | 2020 kg                  |
| Motor inertia                      | 13,3000 kgm <sup>2</sup> |
| Vibration level                    | according IEC60034-14    |
| Noise level (pressure) acc 60034-9 | 79,8 dB(A)               |

|                       |           |
|-----------------------|-----------|
| Direction of rotation | cw /ccw   |
|                       | PTC 150°C |

Schematic presentation of torque-speed curve



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Driving efficiency and sustainability

