

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

|  |                         |                                 |                             |  |               |                |
|--|-------------------------|---------------------------------|-----------------------------|--|---------------|----------------|
| Customer :   |                         |                                 |                             |  |               |                |
| Product line : W22 NEMA Premium Efficiency Three-Phase   |                         |                                 | Product code : 16050027     |  |               |                |
| Frame  | : 586/7T                |                                 | Locked rotor time           | : 63s (cold) 35s (hot)   |               |                |
| Output   | : 350 HP (260 kW)       |                                 | Temperature rise            | : 80 K   |               |                |
| Poles  | : 8                     |                                 | Duty cycle                  | : Cont.(S1)  |               |                |
| Frequency  | : 60 Hz                 |                                 | Ambient temperature         | : -20°C to +40°C   |               |                |
| Rated voltage  | : 575 V                 |                                 | Altitude                    | : 1000 m.a.s.l.  |               |                |
| Rated current  | : 341 A                 |                                 | Protection degree           | : IP55   |               |                |
| L. R. Amperes  | : 2181 A                |                                 | Cooling method              | : IC411 - TEFC   |               |                |
| LRC  | : 6.4x(Code G)          |                                 | Mounting                    | : F-1  |               |                |
| No load current  | : 136 A                 |                                 | Rotation <sup>1</sup>       | : Both (CW and CCW)  |               |                |
| Rated speed  | : 893 rpm               |                                 | Noise level <sup>2</sup>    | : 75.0 dB(A)   |               |                |
| Slip   | : 0.78 %                |                                 | Starting method             | : Direct On Line   |               |                |
| Rated torque   | : 284 kgfm              |                                 | Approx. weight <sup>3</sup> | : 2027 kg  |               |                |
| Locked rotor torque  | : 160 %                 |                                 |                             |  |               |                |
| Breakdown torque   | : 229 %                 |                                 |                             |  |               |                |
| Insulation class   | : F                     |                                 |                             |  |               |                |
| Service factor   | : 1.00                  |                                 |                             |  |               |                |
| Moment of inertia (J)  | : 20.4 kgm <sup>2</sup> |                                 |                             |  |               |                |
| Output   | 50%                     | 75%                             | 100%                        | Foundation loads   |               |                |
| Efficiency (%)   | 95.4                    | 95.8                            | 95.8                        | Max. traction : 3465 kgf   |               |                |
| Power Factor   | 0.64                    | 0.75                            | 0.80                        | Max. compression : 5493 kgf  |               |                |
| Losses at normative operating points (speed;torque), in percentage of rated output power   |                         |                                 |                             |  |               |                |
| P1 (0,9;1,0)   | P2 (0,5;1,0)            | P3 (0,25;1,0)                   | P4 (0,9;0,5)                | P5 (0,5;0,5)   | P6 (0,5;0,25) | P7 (0,25;0,25) |
| 4.7  | 3.8                     | 3.3                             | 2.5                         | 1.8  | 1.4           | 0.9            |
| Bearing type   |                         | : <u>Drive end</u><br>NU-322 C3 |                             | : <u>Non drive end</u><br>6319 C3  |               |                |
| Sealing  |                         | : Taconite Labyrinth            |                             | : Taconite Labyrinth   |               |                |
| Lubrication interval   |                         | : 13000 h                       |                             | : 17000 h  |               |                |
| Lubricant amount   |                         | : 60 g                          |                             | : 45 g   |               |                |
| Lubricant type   |                         | : Mobil Polyrex EM              |                             |  |               |                |
| Notes  |                         |                                 |                             |  |               |                |
| This revision replaces and cancel the previous one, which must be eliminated.<br>(1) Looking the motor from the shaft end.<br>(2) Measured at 1m and with tolerance of +3dB(A).<br>(3) Approximate weight subject to changes after manufacturing process.<br>(4) At 100% of full load. |                         |                                 |                             | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. |               |                |
| Rev.   | Changes Summary         |                                 |                             | Performed  | Checked       | Date           |
| Performed by   |                         |                                 |                             |  |               |                |
| Checked by   |                         |                                 |                             |  | Page          | Revision       |
| Date   | 22/10/2023              |                                 |                             |  | 1 / 3         |                |

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

### Space heater information

Voltage: 200 - 240 V

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
| Performed by |                 |           |         |          |
| Checked by   |                 |           | Page    | Revision |
| Date         | 22/10/2023      |           | 2 / 3   |          |

# LOAD PERFORMANCE CURVE

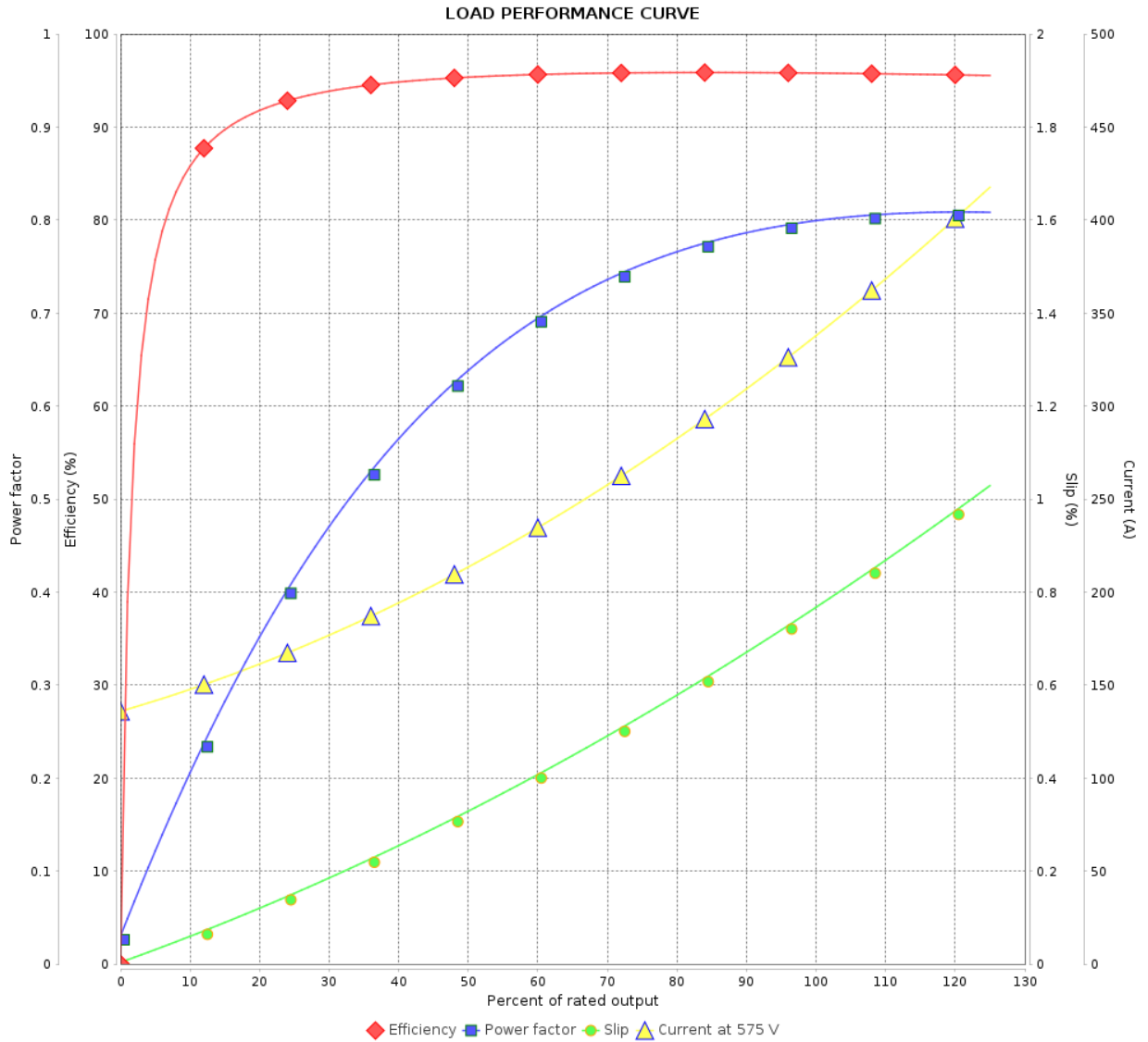
## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 16050027



Performance : 575 V 60 Hz 8P

Rated current : 341 A  
 LRC : 6.4  
 Rated torque : 284 kgfm  
 Locked rotor torque : 160 %  
 Breakdown torque : 229 %  
 Rated speed : 893 rpm

Moment of inertia (J) : 20.4 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.00  
 Temperature rise : 80 K

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
|              |                 |           |         |          |
| Performed by |                 |           | Page    | Revision |
| Checked by   |                 |           |         |          |
| Date         |                 |           |         |          |