

# MaxMotion

## IEC PERFORMANCE DATA SHEET IEC Efficiency Level IE3

Catalog #: **IJC200L2-6-59**

| HP    | kW    | Voltage   | L.R. Amps | Efficiency | Power Factor | Service Factor | Frame | Design |
|-------|-------|-----------|-----------|------------|--------------|----------------|-------|--------|
| 30,00 | 22,38 | 575 / 990 | 213,45    | 93,0%      | 0,81         | 1,15           | 200L  | N      |

| 60 Hz |     |     |     |       |     |       |       |          |
|-------|-----|-----|-----|-------|-----|-------|-------|----------|
| FLA   |     |     |     |       |     |       | Is/In | F.L. RPM |
| 208   | 230 | 333 | 460 | 575   | 796 | 990   |       |          |
| /     | /   | /   | /   | 29,36 | /   | 26,10 | 7,27  | 3550     |

| 50 Hz |     |     |     |     |     |            |       |          |
|-------|-----|-----|-----|-----|-----|------------|-------|----------|
| FLA   |     |     |     |     |     | Efficiency | Is/In | F.L. RPM |
| 190   | 380 | 400 | 415 | 660 | 725 |            |       |          |
| /     | /   | /   | /   | /   | /   | /          | /     | /        |

| Wgt. Lbs | PH | Duty | Insul. Class | Ambient Temp. | Elevation | Temp. Rise° C |
|----------|----|------|--------------|---------------|-----------|---------------|
| 558,8    | 3  | S1   | H            | 40°C          | 1000 M    | 59,6          |

| % Efficiency |       | % Power Factor |      | Torque     |      |      | Protector Type | Winding Resist. Ω |
|--------------|-------|----------------|------|------------|------|------|----------------|-------------------|
| Full Load:   | 93,0% | Full Load:     | 0,81 | FLT ft.lbs | 60Hz | 50Hz |                |                   |
| 3/4 Load:    | 93,1% | 3/4 Load:      | 0,75 | LRT %      | 193  | /    | PTC-150°C      | 0,34              |
| 1/2 Load:    | 92,1% | 1/2 Load:      | 0,62 | BDT %      | 211  | /    |                |                   |

| Rotor Inertia Wk2 Lb-Ft2 | Max Load Inertia Wk2 Lb-Ft2 | Shaft Material | Frame Material | DE Bracket Type | ODE Bracket Type | Mounting | Enclosure | Protection |
|--------------------------|-----------------------------|----------------|----------------|-----------------|------------------|----------|-----------|------------|
| -                        | -                           | Standard       | Cast Iron      | Standard        | Standard         | B3       | TEFC      | IP55       |

| Ball Bearings |         | Grease          | Mount Type | Orientation | Cold Start (Secs) | Paint |
|---------------|---------|-----------------|------------|-------------|-------------------|-------|
| DE            | ODE     |                 |            |             |                   |       |
| 6312-C3       | 6312-C3 | Mobil PolyRexEM | Rigid      | Horizontal  | 15                | Red   |

| Inverter Duty.<br>Motor meets MG1 parts 31.4.4.2 | Constant Torque Range | Variable Torque Range |
|--|-----------------------|-----------------------|
|  | 10:1                  | 20:1                  |

**WIRING CONNECTION DIAGRAM : D**

**IEC Frames 112M - 355L, Dual Voltage**  
575 / 990 VAC, 6 posts, 6 leads, Δ / Y Connection

Low Voltage (575Vac)  
6 Leads Δ 6 posts



Line

High Voltage (990Vac)  
6 Leads Y 6 posts



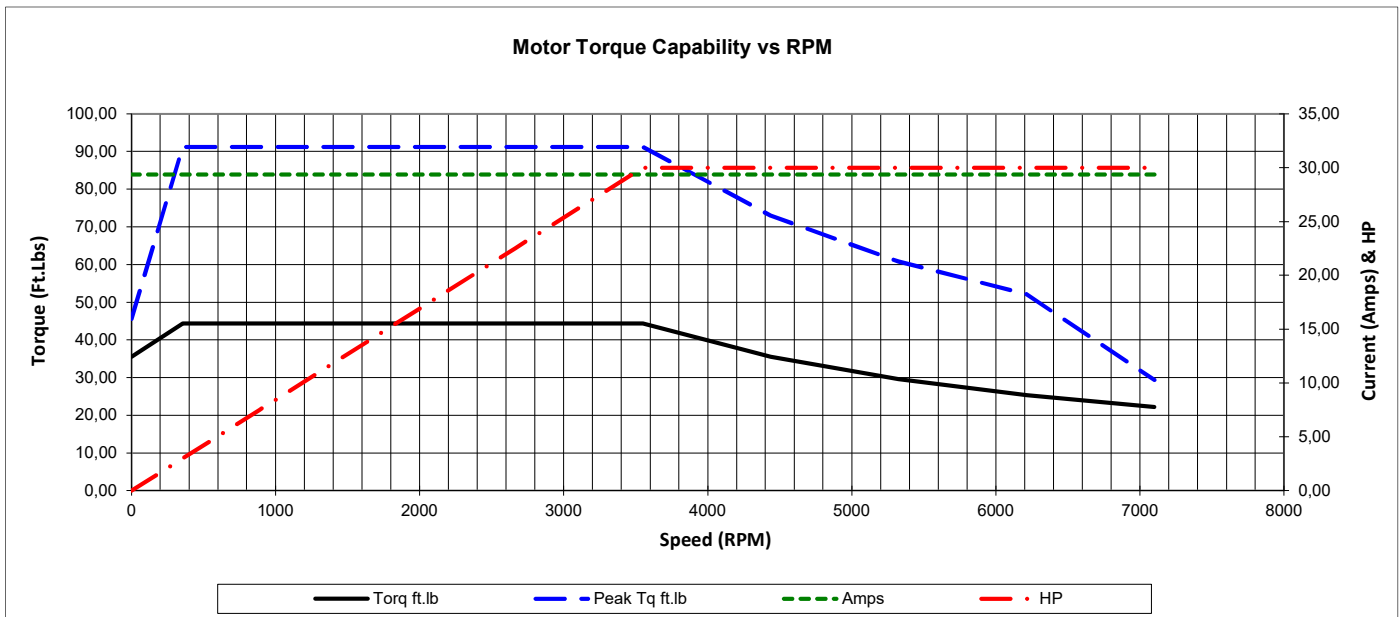
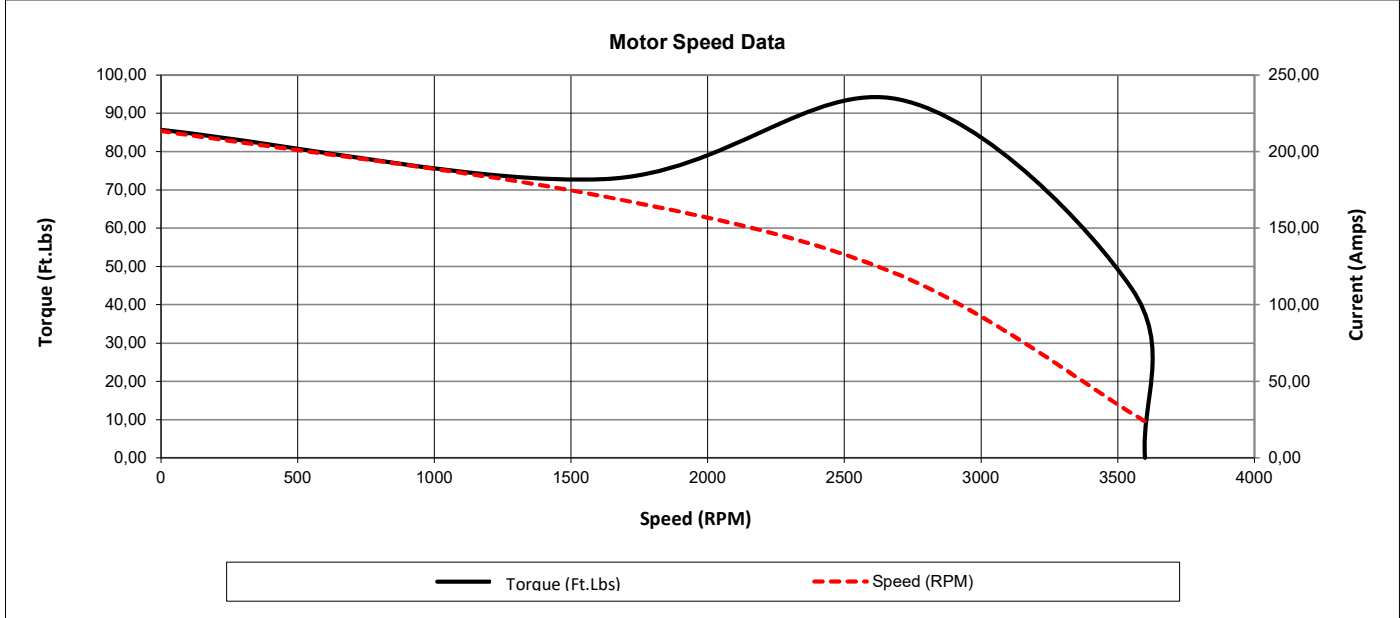
Line



Date: **25 janvier, 2024**  
 Customer: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Submittee: **J.C. Lavallée**

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| IEC Efficiency Level IE3 |       |              |         |           |            |           |   |       |          |                  |               |
|--------------------------|-------|--------------|---------|-----------|------------|-----------|---|-------|----------|------------------|---------------|
| HP                       | Kw    | VAC          | RPM     | Enclosure | Frame      | Frequency | Design                                      | Poles | LR Is/In | Insulation Class | Temp. Rise °C |
| 30,00                    | 22,38 | 575 / 990    | 3550    | TEFC      | 200L       | 60        | N   | 6     | 7,27     | H                | 59,6          |
|                          |       | 0Hz          | 6Hz     | 15Hz      | 30Hz       | 45Hz      | 60Hz  | 75Hz  | 90Hz     | 105Hz            | 120Hz         |
| Amps                     |       | 29,36        | 29,36   | 29,36     | 29,36      | 29,36     | 29,36                                       | 29,36 | 29,36    | 29,36            | 29,36         |
| RPM                      |       | 0            | 355     | 888       | 1775       | 2663      | 3550  | 4438  | 5325     | 6213             | 7100          |
| Torq ft.lb               |       | 35,51        | 44,38   | 44,38     | 44,38      | 44,38     | 44,38                                       | 35,51 | 29,59    | 25,36            | 22,19         |
| Peak Tq ft.lb            |       | 45,60        | 91,21   | 91,21     | 91,21      | 91,21     | 91,21                                       | 72,97 | 60,80    | 52,12            | 29,36         |
| HP                       |       | 0,00         | 3,00    | 7,50      | 15,00      | 22,50     | 30,00                                       | 30,00 | 30,00    | 30,00            | 30,00         |
|                          |       | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle      | Duty  | S. F. | Ambient  | Elevation        | dBA @ 1M      |
| Speed (RPM)              |       | 0            | 1620    | 2700      | 3550       | 3600      | S1  | 1,15  | 40°C     | 3,300 ft         | -             |
| Current (Amps)           |       | 213,45       | 170,76  | 119,53    | 29,36      | 23,71     | <b>VFD Rating: Meets MG1 parts 31.4.4.2</b> |       |          |                  |               |
| Torque (ft-lbs)          |       | 85,66        | 72,81   | 93,65     | 44,38      | 0,0       | CT :  | 10:1  | VT :     | 20:1             |               |



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| HP                       | Kw    | VAC       | RPM  | Enclosure | Frame | Frequency | Design | Poles | LR Is/In | Insulation Class | Temp. Rise °C |
| 30,00                    | 22,38 | 575 / 990 | 3550 | TEFC      | 200L  | 60        | N      | 6     | 7,27     | H                | 59,6          |

| Load %      | 0%    | 25%   | 50%   | 75%   | 100%  | 125%  | 150%  |
|-------------|-------|-------|-------|-------|-------|-------|-------|
| Amps        | 23,71 | 23,71 | 25,97 | 27,10 | 29,36 | 33,88 | 42,91 |
| Torq ft/lbs | 0     | 10,98 | 22,04 | 33,17 | 44,38 | 57,85 | 74,30 |
| RPM         | 0     | 3588  | 3575  | 3563  | 3550  | 3404  | 3181  |
| Eff %       | 0     | 68,9  | 92,1  | 93,1  | 93,0  | 90,6  | 83,2  |
| PF %        | 0     | 37,0  | 62,0  | 74,8  | 81,0  | 83,4  | 85,1  |

|                 | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle  | Duty  | S. F. | Ambient | Elevation | dBA @ 1M |
|-----------------|--------------|---------|-----------|------------|-------|---|-------|---------|-----------|----------|
| Speed (RPM)     | 0            | 1620    | 2700      | 3550       | 3600  | S1  | 1,15  | 40°C    | 3,300 ft  | -        |
| Current (Amps)  | 213,45       | 170,76  | 119,53    | 29,36      | 23,71 | <b>VFD Rating: Meets MG1 parts 31.4.4.2</b> |       |         |           |          |
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