

MaxMotion

IEC PERFORMANCE DATA SHEET IEC Efficiency Level IE3

Catalog #: **IJA803-2-35-IE3**

| HP | kW | Voltage | L.R. Amps | Efficiency | Power Factor | Service Factor | Frame | Design |
|------|------|-----------|-----------|------------|--------------|----------------|-------|--------|
| 2,00 | 1,49 | 333 / 575 | 15,93 | 85,5% | 0,84 | 1,15 | 80 | N |

| 60 Hz | | | | | | | | |
|-------|-----|------|-----|------|-----|-----|-------|----------|
| FLA | | | | | | | Is/In | F.L. RPM |
| 208 | 230 | 333 | 460 | 575 | 796 | 990 | | |
| / | / | 3,62 | / | 2,10 | / | / | 7,6 | 3470 |

| 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 |
|----------|----|------|--------------|---------------|-----------|---------------|
| 26,4 | 3 | S1 | H | 40°C | 1000 M | 35 |

| % Efficiency | | % Power Factor | | Torque | | | Protector Type | Winding Resist. Ω |
|--------------|-------|----------------|------|------------|------|------|----------------|-------------------|
| Full Load: | 85,5% | Full Load: | 0,84 | FLT ft.lbs | 60Hz | 50Hz | | |
| 3/4 Load: | 82,1% | 3/4 Load: | 0,80 | LRT % | 230 | / | - | - |
| 1/2 Load: | 74,5% | 1/2 Load: | 0,71 | BDT % | 230 | / | - | - |

| 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 | Aluminum | Standard | Standard | B3 | TEFC | IP55 |

| Ball Bearings | | Grease | Mount Type | Orientation | Cold Start (Secs) | Paint |
|---------------|-----------|-----------------|------------|-------------|-------------------|-------|
| DE | ODE | | | | | |
| 6204ZZ-C3 | 6204ZZ-C3 | Sealed Bearings | Rigid | Horizontal | 15 | Red |

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

WIRING CONNECTION DIAGRAM : A

IEC Frames 56 - 100L, Dual Voltage
333 / 575VAC, 6 posts, 6 leads, Δ / Y Connection

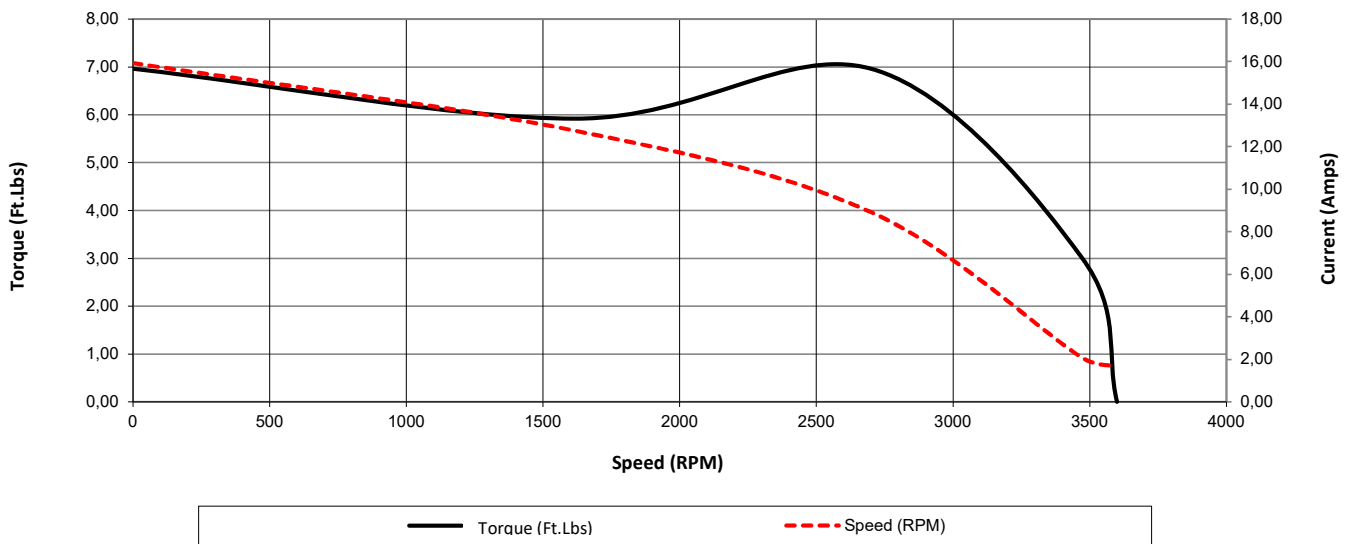


Date: **25 janvier, 2024**
 Customer: _____
 Contact: _____
 Submittee: **J.C. Lavallée**

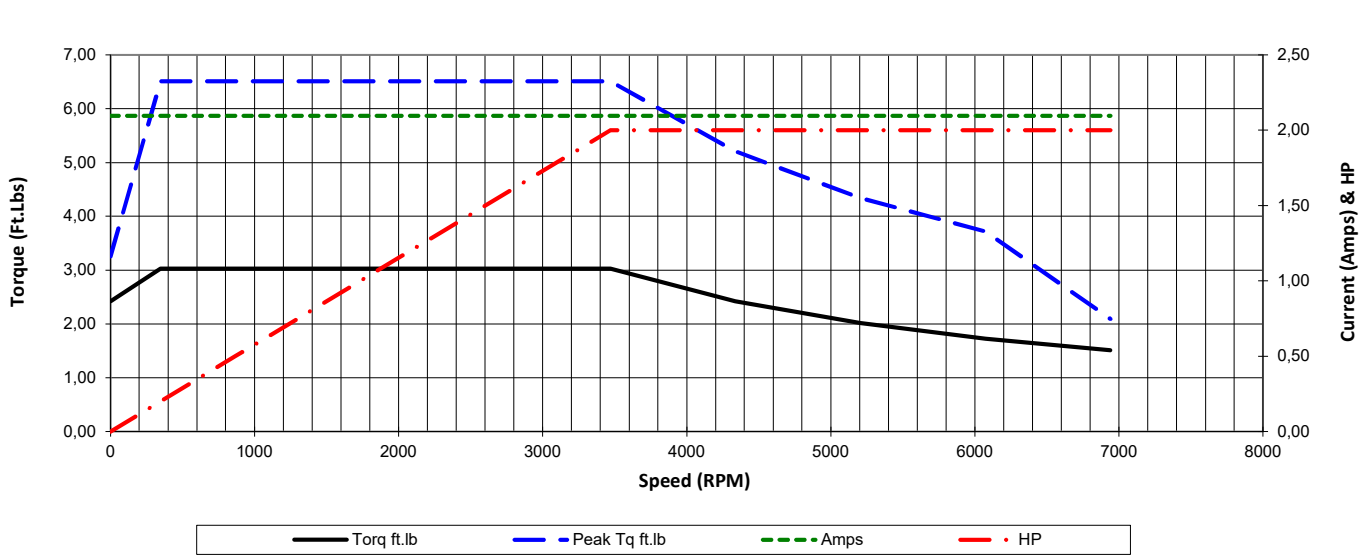
Catalogue #: **IJA803-2-35-IE3**

| IEC Efficiency Level IE3 | | | | | | | | | | | |
|--------------------------|--------------|-----------|-----------|------------|-------|---|--------|---------|-----------|------------------|---------------|
| HP | Kw | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Is/In | Insulation Class | Temp. Rise °C |
| 2,00 | 1,49 | 333 / 575 | 3470 | TEFC | 80 | 60 | N | 2 | 7,6 | H | 35 |
| | | 0Hz | 6Hz | 15Hz | 30Hz | 45Hz | 60Hz | 75Hz | 90Hz | 105Hz | 120Hz |
| Amps | 2,10 | 2,10 | 2,10 | 2,10 | 2,10 | 2,10 | 2,10 | 2,10 | 2,10 | 2,10 | 2,10 |
| RPM | 0 | 347 | 868 | 1735 | 2603 | 3470 | 4338 | 5205 | 6073 | 6940 | 6940 |
| Torq ft.lb | 2,42 | 3,03 | 3,03 | 3,03 | 3,03 | 3,03 | 2,42 | 2,02 | 1,73 | 1,51 | 1,51 |
| Peak Tq ft.lb | 3,25 | 6,51 | 6,51 | 6,51 | 6,51 | 6,51 | 5,21 | 4,34 | 3,72 | 2,10 | 2,10 |
| HP | 0,00 | 0,20 | 0,50 | 1,00 | 1,50 | 2,00 | 2,00 | 2,00 | 2,00 | 2,00 | 2,00 |
| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBA @ 1M | |
| Speed (RPM) | 0 | 1620 | 2700 | 3470 | 3600 | S1 | 1,15 | 40°C | 3,300 ft | - | |
| Current (Amps) | 15,93 | 12,74 | 8,92 | 2,10 | 1,69 | VFD Rating: Meets MG1 parts 31.4.4.2 | | | | | |
| Torque (ft.lbs) | 6,96 | 5,92 | 6,96 | 3,03 | 0,0 | CT : | 10:1 | VT : | 20:1 | | |

Motor Speed Data



Motor Torque Capability vs RPM



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|--------------------------|------|-----------|------|-----------|-------|-----------|--------|-------|----------|------------------|---------------|
| HP | Kw | VAC | RPM | Enclosure | Frame | Frequency | Design | Poles | LR Is/In | Insulation Class | Temp. Rise °C |
| 2,00 | 1,49 | 333 / 575 | 3470 | TEFC | 80 | 60 | N | 2 | 7,6 | H | 35 |

| Load % | 0% | 25% | 50% | 75% | 100% | 125% | 150% |
|-------------|------|------|------|------|------|------|------|
| Amps | 1,69 | 1,69 | 1,85 | 1,93 | 2,10 | 2,42 | 3,06 |
| Torq ft/lbs | 0 | 0,74 | 1,49 | 2,25 | 3,03 | 3,95 | 5,07 |
| RPM | 0 | 3568 | 3535 | 3503 | 3470 | 3328 | 3109 |
| Eff % | 0 | 55,7 | 74,5 | 82,1 | 85,5 | 83,3 | 76,5 |
| PF % | 0 | 38,4 | 71,3 | 80,0 | 84,0 | 86,5 | 88,2 |

| | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty | S. F. | Ambient | Elevation | dBA @ 1M |
|-----------------|--------------|---------|-----------|------------|------|--------------------------------------|-------|---------|-----------|----------|
| Speed (RPM) | 0 | 1620 | 2700 | 3470 | 3600 | S1 | 1,15 | 40°C | 3,300 ft | - |
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