

# MaxMotion

## IEC PERFORMANCE DATA SHEET IEC Efficiency Level IE3

Catalog #: | IJA132S2-2-59

| HP    | kW   | Voltage   | L.R. Amps | EFF.  | P.F. | SF   | Frame | Design |
|-------|------|-----------|-----------|-------|------|------|-------|--------|
| 10.00 | 7.46 | 575 / 990 | 74.02     | 90.2% | 0.88 | 1.15 | 132S  | N      |

| 60 Hz |     |     |     |      |     |      |       |          |
|-------|-----|-----|-----|------|-----|------|-------|----------|
| FLA   |     |     |     |      |     |      | Is/In | F.L. RPM |
| 208   | 230 | 333 | 460 | 575  | 796 | 990  |       |          |
| /     | /   | /   | /   | 9.49 | /   | 5.51 | 7.8   | 3515     |

| 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 |
|----------|----|------|--------------|---------------|-----------|---------------|
| 105.6    | 3  | S1   | H            | 40°C          | 1000 M    | 30            |

| % Efficiency |       | % Power Factor |      | Torque     |      |      | Protector Type | Winding Resist. Ω |
|--------------|-------|----------------|------|------------|------|------|----------------|-------------------|
| Full Load:   | 90.2% | Full Load:     | 0.88 | FLT ft.lbs | 60Hz | 50Hz |                |                   |
| 3/4 Load:    | 90.1% | 3/4 Load:      | 0.84 | LRT %      | 220  | /    | PTC-150°C      | -                 |
| 1/2 Load:    | 87.9% | 1/2 Load:      | 0.73 | 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       |

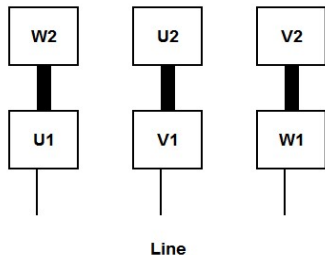
| Ball Bearings |           | Grease          | Mount Type | Orientation | Cold Start (Secs) | Paint       |
|---------------|-----------|-----------------|------------|-------------|-------------------|-------------|
| DE            | ODE       |                 |            |             |                   |             |
| 6308ZZ-C3     | 6208ZZ-C3 | Mobil PolyRexEM | Rigid      | Horizontal  | 15                | RAL3003 Mat |

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

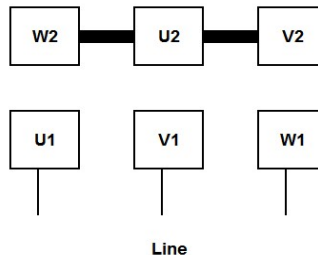
WIRING CONNECTION DIAGRAM : D

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

Low Voltage (575Vac)  
6 Leads Δ 6 posts



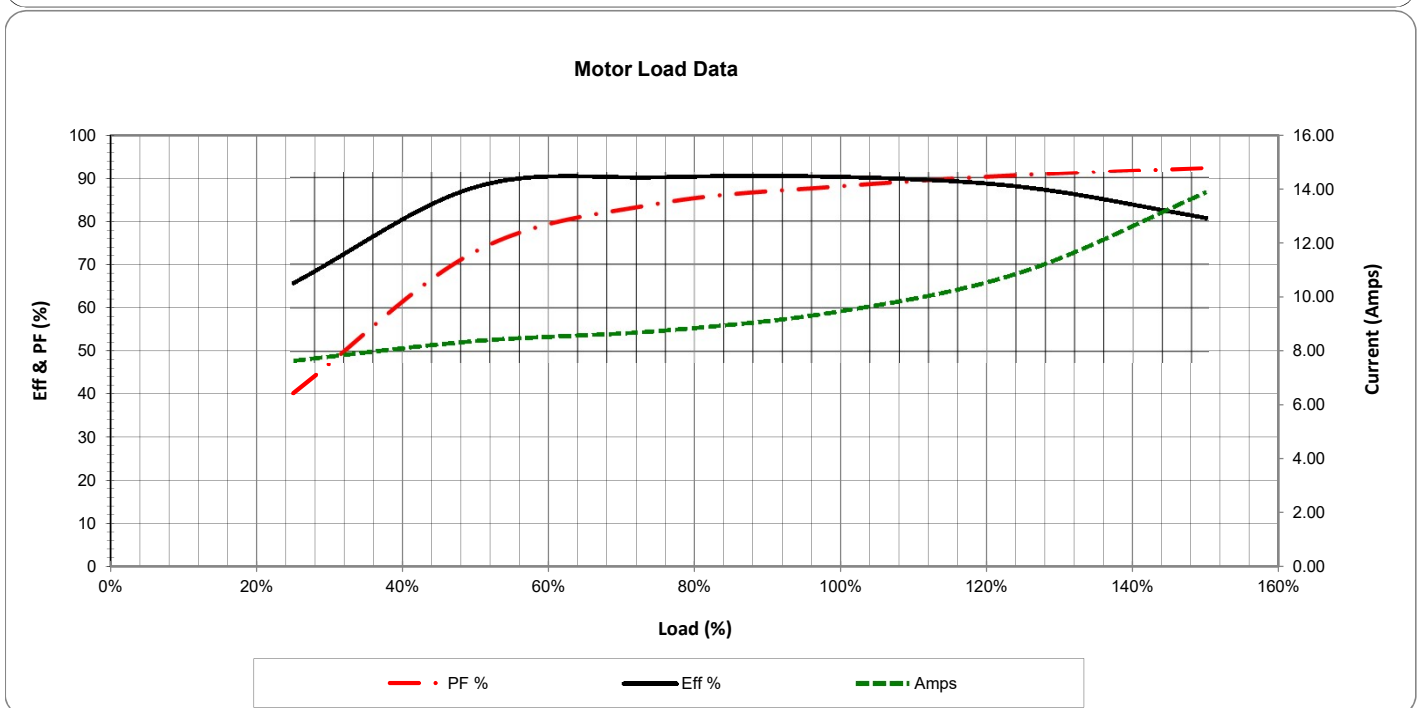
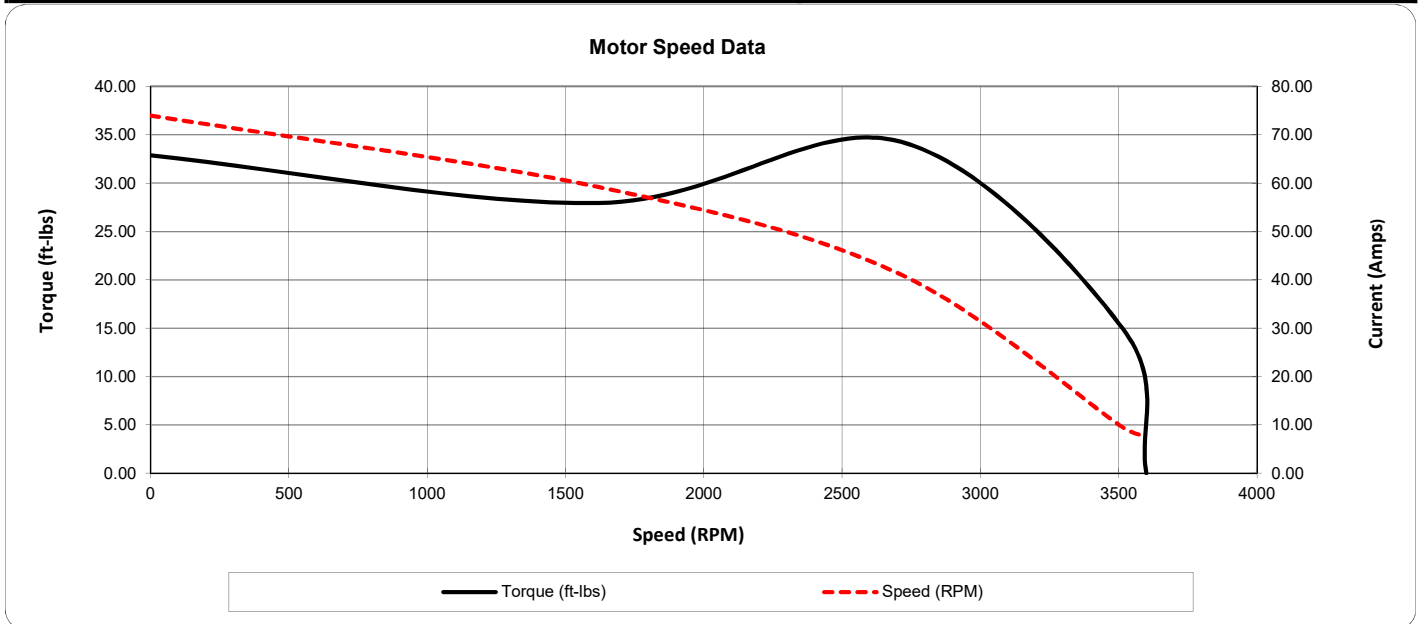
High Voltage (990Vac)  
6 Leads Y 6 posts



Date: **2 février, 2021**  
 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 |
| 10.00                    | 7.46         | 575 / 990 | 3515      | TEFC       | 132S  | 60                                   | N      | 2       | 7.8       | H                | 30            |
| Load %                   |              | 0%        | 25%       | 50%        | 75%   | 100%                                 | 125%   | 150%    |           |                  |               |
| Amps                     |              | 7.66      | 7.66      | 8.39       | 8.76  | 9.49                                 | 10.95  | 13.87   |           |                  |               |
| Torq ft/lbs              |              | 0         | 3.67      | 7.38       | 11.14 | 14.94                                | 19.48  | 25.01   |           |                  |               |
| RPM                      |              | 0         | 3579      | 3558       | 3536  | 3515                                 | 3371   | 3149    |           |                  |               |
| Eff %                    |              | 0         | 65.7      | 87.9       | 90.1  | 90.2                                 | 87.9   | 80.7    |           |                  |               |
| PF %                     |              | 0         | 40.2      | 73.0       | 84.0  | 88.0                                 | 90.6   | 92.4    |           |                  |               |
|                          | Locked Rotor | Pull-Up   | Breakdown | Rated Load | Idle  | Duty                                 | S. F.  | Ambient | Elevation | dBa @ 1M         |               |
| Speed (RPM)              | 0            | 1620      | 2700      | 3515       | 3600  | S1                                   | 1.15   | 40°C    | 3,300 ft  | -                |               |
| Current (Amps)           | 74.02        | 59.22     | 41.45     | 9.49       | 7.66  | VFD Rating: Meets MG1 parts 31.4.4.2 |        |         |           |                  |               |
| Torque (ft-lbs)          | 32.87        | 27.94     | 34.37     | 14.94      | 0.0   | C.T.                                 | 10:1   | V.T.    | 20:1      |                  |               |



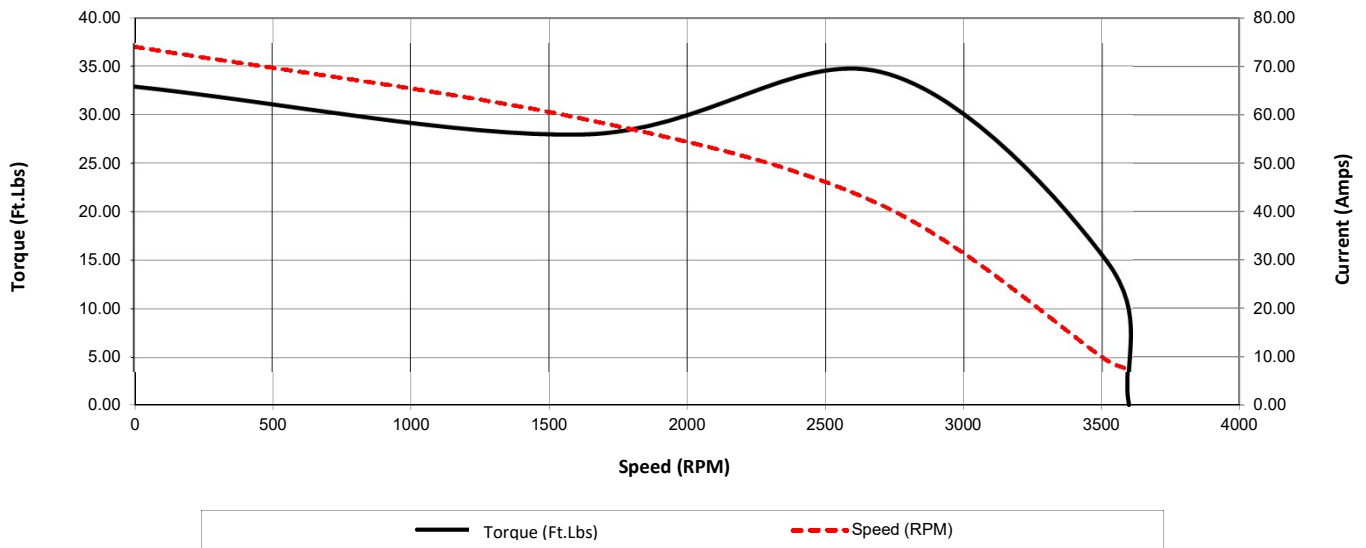


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| HP                       | Kw           | VAC       | RPM       | Enclosure  | Frame | Frequency                            | Design | Poles   | LR Is/In  | Insulation Class | Temp. Rise °C |
| 10.00                    | 7.46         | 575 / 990 | 3515      | TEFC       | 132S  | 60                                   | N      | 2       | 7.8       | H                | 30            |
|                          |              | 0Hz       | 6Hz       | 15Hz       | 30Hz  | 45Hz                                 | 60Hz   | 75Hz    | 90Hz      | 105Hz            | 120Hz         |
| Amps                     | 9.49         | 9.49      | 9.49      | 9.49       | 9.49  | 9.49                                 | 9.49   | 9.49    | 9.49      | 9.49             | 9.49          |
| RPM                      | 0            | 352       | 879       | 1758       | 2636  | 3515                                 | 4394   | 5273    | 6151      | 7030             |               |
| Torq ft.lb               | 11.95        | 14.94     | 14.94     | 14.94      | 14.94 | 14.94                                | 11.95  | 9.96    | 8.54      | 7.47             |               |
| Peak Tq ft.lb            | 16.06        | 32.12     | 32.12     | 32.12      | 32.12 | 32.12                                | 25.70  | 21.42   | 18.36     | 9.49             |               |
| HP                       | 0.00         | 1.00      | 2.50      | 5.00       | 7.50  | 10.00                                | 10.00  | 10.00   | 10.00     | 10.00            |               |
|                          | Locked Rotor | Pull-Up   | Breakdown | Rated Load | Idle  | Duty                                 | S. F.  | Ambient | Elevation | dBA @ 1M         |               |
| Speed (RPM)              | 0            | 1620      | 2700      | 3515       | 3600  | S1                                   | 1.15   | 40°C    | 3,300 ft  | -                |               |
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| Torque (N.m)             | 32.87        | 27.94     | 34.37     | 14.94      | 0.0   | C.T.                                 | 10:1   | V.T.    | 20:1      |                  |               |

Motor Speed Data



Motor Torque Capability vs RPM

