



**IEC PERFORMANCE DATA SHEET**  
IEC Efficiency Level IE3

Catalog #: IJA290S-4-24

| HP   | kW   | Voltage   | L.R. Amps | Efficiency | Power Factor | Service Factor | Frame | Design |
|------|------|-----------|-----------|------------|--------------|----------------|-------|--------|
| 1,50 | 1,12 | 230 / 460 | 14,28     | 86,5%      | 0,76         | 1,15           | 90S   | N      |

| 60 Hz |      |     |      |     |     |     |       |          |
|-------|------|-----|------|-----|-----|-----|-------|----------|
| FLA   |      |     |      |     |     |     | Is/In | F.L. RPM |
| 208   | 230  | 333 | 460  | 575 | 796 | 990 |       |          |
| /     | 4,20 | /   | 2,10 | /   | /   | /   | 6,8   | 1734     |

| 50 Hz |      |      |      |     |     |            |       |          |
|-------|------|------|------|-----|-----|------------|-------|----------|
| FLA   |      |      |      |     |     | Efficiency | Is/In | F.L. RPM |
| 190   | 380  | 400  | 415  | 660 | 725 |            |       |          |
| 5,08  | 2,54 | 2,42 | 2,33 | /   | /   | 85,0%      | 6,8   | 1445     |

| Wgt. Lbs | PH | Duty | Insul. Class | Ambient Temp. | Elevation | Temp. Rise° C |
|----------|----|------|--------------|---------------|-----------|---------------|
| 35,2     | 3  | S1   | H            | 40°C          | 1000 M    | 39            |

| % Efficiency |       | % Power Factor |      | Torque     |      |      | Protector Type | Winding Resist. Ω |
|--------------|-------|----------------|------|------------|------|------|----------------|-------------------|
| Full Load:   | 86,5% | Full Load:     | 0,76 | FLT ft.lbs | 60Hz | 50Hz |                |                   |
| 3/4 Load:    | 83,0% | 3/4 Load:      | 0,64 | LRT %      | 230  | 230  | -              | -                 |
| 1/2 Load:    | 75,3% | 1/2 Load:      | 0,49 | BDT %      | 230  | 230  | -              | -                 |

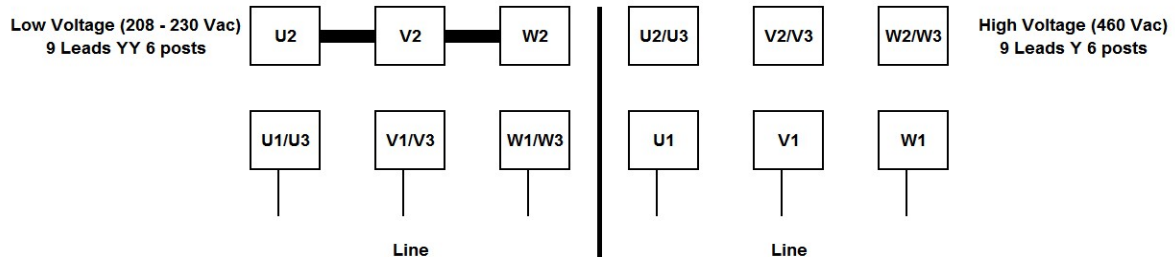
| Rotor Inertia Wk2 Lb-Ft2 | Max Load Inertia Wk2 Lb-Ft2 | Shaft Material | Frame Material | DE Bracket Type | ODE Bracket Type | Mounting | Enclosure | Protection |
|--------------------------|-----------------------------|----------------|----------------|-----------------|------------------|----------|-----------|------------|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

| Ball Bearings |           | Grease          | Mount Type | Orientation | Cold Start (Secs) | Paint |
|---------------|-----------|-----------------|------------|-------------|-------------------|-------|
| DE            | ODE       |                 |            |             |                   |       |
| 6205ZZ-C3     | 6205ZZ-C3 | Sealed Bearings | 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 : B**

**IEC Frames 56 - 100L, Dual Voltage**  
208 - 230 / 460 VAC, 6 posts, 9 leads, YY / Y Connection





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

Catalogue #: **IJA290S-4-24**

| IEC Efficiency Level IE3 |      |           |      |           |       |           |        |       |          |                  |               |
|--------------------------|------|-----------|------|-----------|-------|-----------|--------|-------|----------|------------------|---------------|
| HP                       | Kw   | VAC       | RPM  | Enclosure | Frame | Frequency | Design | Poles | LR Is/In | Insulation Class | Temp. Rise °C |
| 1,50                     | 1,12 | 230 / 460 | 1734 | TEFC      | 90S   | 60        | N      | 4     | 6,8      | H                | 39            |

| Load %      | 0%   | 25%  | 50%  | 75%  | 100% | 125% | 150% |
|-------------|------|------|------|------|------|------|------|
| Amps        | 1,70 | 1,70 | 1,86 | 1,94 | 2,10 | 2,42 | 3,07 |
| Torq ft/lbs | 0    | 1,10 | 2,23 | 3,38 | 4,54 | 5,92 | 7,61 |
| RPM         | 0    | 1784 | 1767 | 1751 | 1734 | 1663 | 1554 |
| Eff %       | 0    | 56,4 | 75,3 | 83,0 | 86,5 | 84,3 | 77,4 |
| PF %        | 0    | 34,7 | 49,2 | 64,2 | 76,0 | 78,3 | 79,8 |

|                 | Locked Rotor | Pull-Up | Breakdown | Rated Load | Idle | Duty                                 | S. F. | Ambient | Elevation | dBA @ 1M |
|-----------------|--------------|---------|-----------|------------|------|--------------------------------------|-------|---------|-----------|----------|
| Speed (RPM)     | 0            | 810     | 1350      | 1734       | 1800 | S1                                   | 1,15  | 40°C    | 3,300 ft  | -        |
| Current (Amps)  | 14,28        | 11,42   | 8,00      | 2,10       | 1,70 | VFD Rating: Meets MG1 parts 31.4.4.2 |       |         |           |          |
| Torque (ft-lbs) | 10,45        | 8,88    | 10,45     | 4,54       | 0,0  | CT :                                 | 10:1  | VT :    | 20:1      |          |

