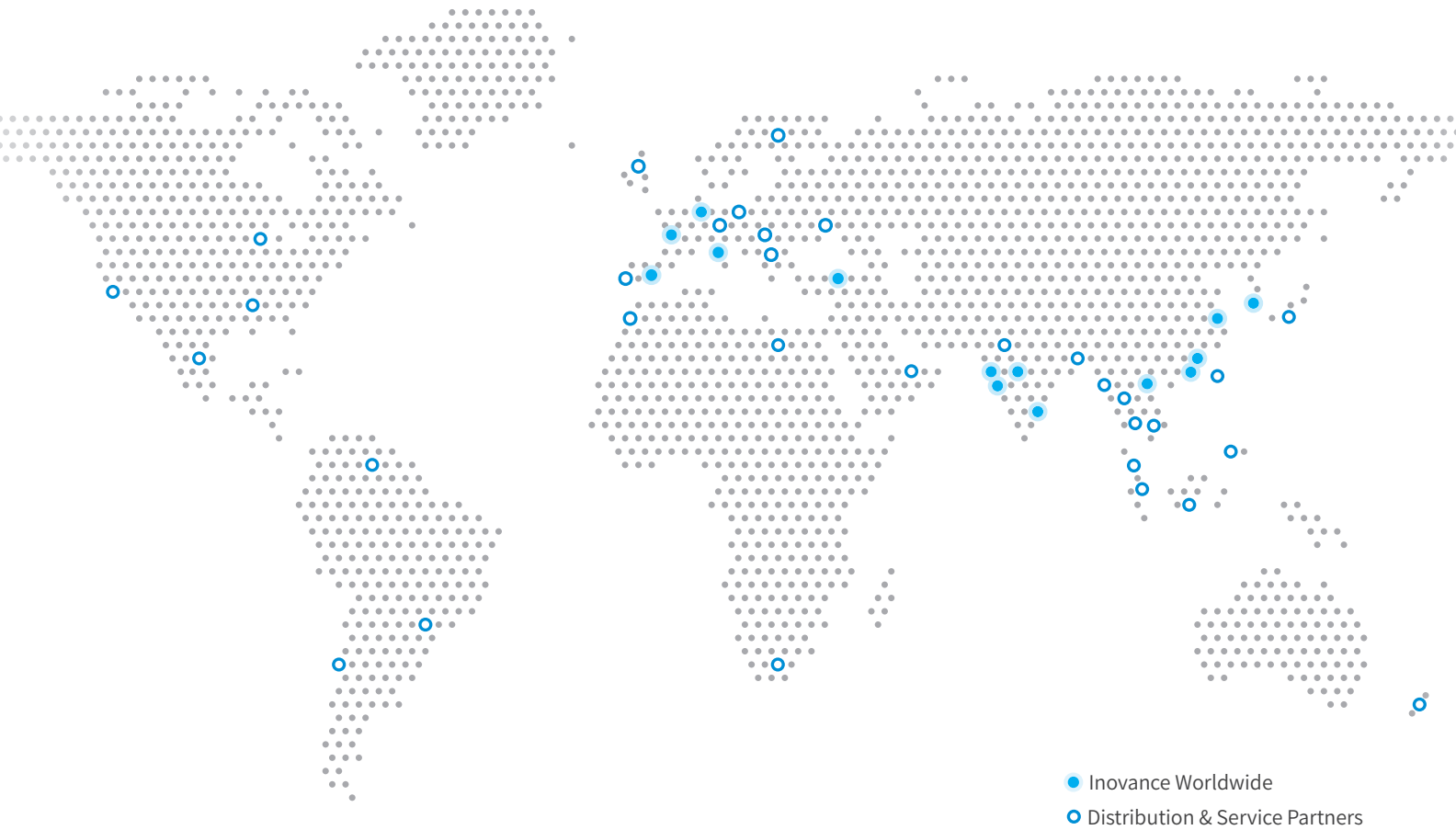




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- Shenzhen Inovance Technology Co., Ltd.  
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# INOVANCE

## MV21 Series

Low-Voltage Three-Phase Permanent Magnet Servo Motors



### Features & functions

- Wide power range from 4kW to 90kW
- Reduced size and weight to address any of space constraints
- High performance with 23bit encoder
- Energy optimization equivalent to IE4 level
- High reliability with PT1000 thermal protection sensor
- IC416 cooling with high speed centrifugal fan





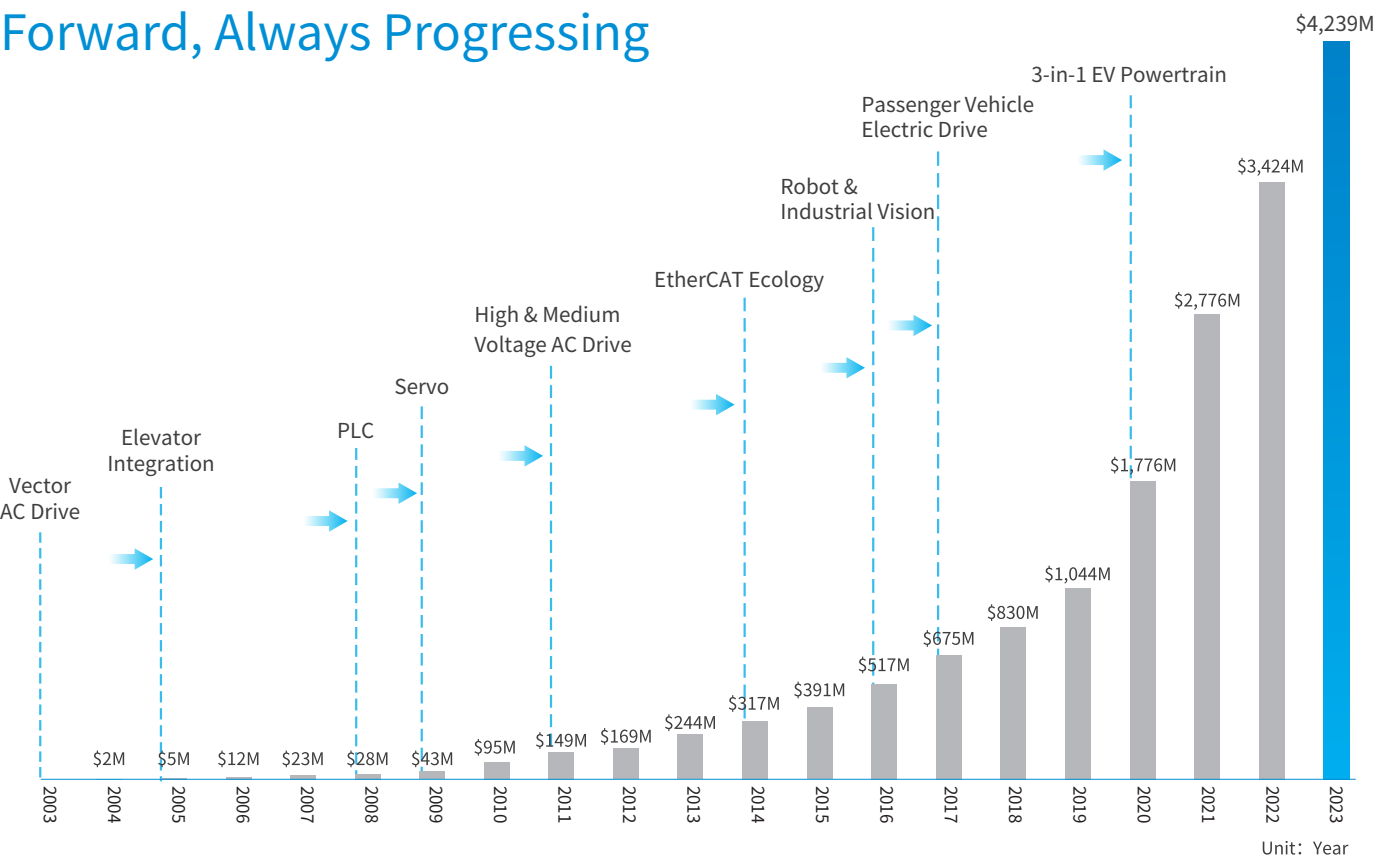


# About Inovance

The Inovance Group, founded in 2003, is a rising star in the global industrial automation business and has revenues of \$4.2 in 2023. Inovance is headquartered in Shenzhen, China, and has built a global operation with offices and facilities in Germany, France, Italy, Spain, Turkey, India, and South Korea. Additionally, the company has a strong network of distribution partners around the world.

The company's flexible production techniques and expert understanding of all industry sectors - from plastics to printing to packaging to iron & steel production - have allowed it to establish globally leading industry-specific business units. Over the years, Inovance has built an engineering team with specialist expertise in industrial automation. This knowledge allows it to form strong partnerships with OEMs and end users, providing ongoing advice about how to get the most out of their automation solutions today, and how to stay prepared for the market and technology changes that are coming in future.

## Forward, Always Progressing





**2003**  
founded



**IPO:2010**  
Shenzhen, China



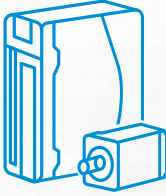
**20,000**  
employees



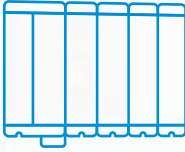
**Global**  
network of offices and distributors



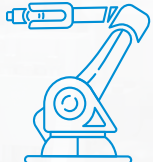
**\$4.2+bn**  
revenues in 2023



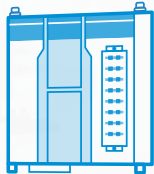
**Servo System**  
**4,500,000+**  
sets delivered in 2023



**AC Drive**  
**2,20,000+**  
sets delivered in 2023



**Industrial Robot**  
**22,000+**  
sets delivered in 2023



**Controller**  
**3,400,000+**  
sets delivered in 2023



# System topology

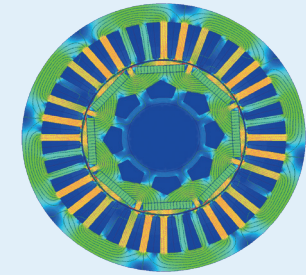


- Note: The MV21 series low-voltage three-phase permanent magnet servo motors are energy-efficient motors designed for general purposes. Inovance MD520 series drives with PG card are recommended for these motors. For details about the drives and other application scenarios (such as belt connection), contact Inovance technical personnel.

# Features

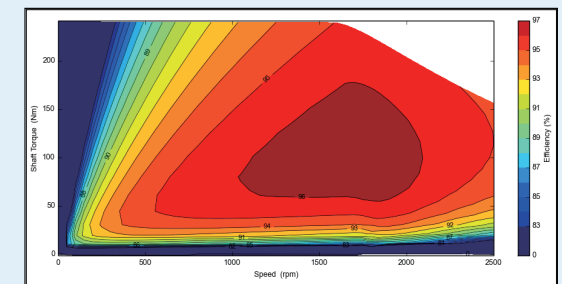
## High-Reliability Design

- Highly reliable interior permanent magnet (IPM) rotor structure
- High-grade rare-earth magnet and accurate thermal protection to ensure reliable operation of the motor in its lifecycle
- Mature variable-frequency insulating system and high-strength mechanical structure



## High Energy Efficiency

- The energy efficiency equal to IE4
- High power factor, low current, and low temperature rise



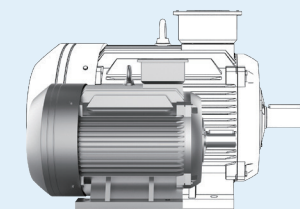
## Accurate Control

- High-accuracy 23-bit absolute encoder used in all models of the series, with small or medium inertia
- Flexible adaption with Inovance permanent magnet AC drives to implement highly accurate control of the motor speed and torque



## Fewer, Lighter, Smaller

- Only three models in this series
- Square aluminum alloy shell with a small size and light weight for easy handling
- Less space occupied and higher additional value, benefiting customers in various industries, such as manufacturers of rubber, plastic, and metal products



Similar asynchronous motor



MV21



Ordering code

MV21 - 20 A 40C 10C D - A3 A 1 F - INT

②

③

④

⑤

⑥

⑦

⑧

⑨

⑩

⑪

|                                                                                                                                                                            |                                                                                                                                                                          |                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| ① Product series<br>MV21: Low-voltage three-phase permanent magnet servo motor                                                                                             | ⑤ Rated speed (two digits and a letter)<br>A: ×1                      D: ×1000<br>B: ×10                    E: ×10000<br>C: ×100                  Example: 10C: 1000 rpm | ⑨ Brake, reducer and oil seal<br>1: Oil seal |
| ② Flange size<br>20: 200×200<br>23: 230×230<br>26: 266×266                                                                                                                 | ⑥ Voltage class<br>D: 380 V                                                                                                                                              | ⑩ Cooling mode<br>F: Forced air cooling      |
| ③ Length difference<br>A/B/C/D/E/F/G/H... represents length difference.                                                                                                    | ⑦ Encoder type<br>(comprised of a letter and a digit)<br>A3: 23-bit high performance encoder                                                                             | ⑪ Model type<br>INT: International           |
| ④ Rated power (two digits and a letter)<br><br>A: ×1                      D: ×1000<br>B: ×10                    E: ×10000<br>C: ×100                  Example: 40C: 4000 W | ⑧ Shaft connection mode<br>1: Plain shaft<br>A: Solid, with key and threaded hole, built-in rotor                                                                        |                                              |

\*Note: All motors with installing feet as standard.

Technical specifications

| Item                                         | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Duty cycle                                   | S1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Frame size                                   | 124mm and 160mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Temperature class                            | 155 (F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Cooling method                               | IC416                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Type of construction                         | IM B35 / IM B5 <sup>[1]</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Degree of protection                         | IP54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Rated speed                                  | 1000 rpm, 1500 rpm, and 2000 rpm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Voltage (AC)                                 | 380 VAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Efficiency class                             | GB2 defined in GB 30253.2013 (China standard)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Temperature sensor                           | PT1000 resistance thermometer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Shock resistance/Radial vibration resistance | GB/T 30549-2014(China standard)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Ambient temperature                          | -15°C to +40°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Ambient humidity                             | 20% to 80% RH (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Storage temperature                          | −20°C to +60°C (peak temperature guarantee: 72 hours at 80°C )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Storage humidity                             | 20% to 90% RH (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Altitude                                     | < 1000 m (derated for altitudes above 1000 m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Certification                                | CE/EAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Installation site                            | <ul style="list-style-type: none"><li>• Install the product in an environment free from corrosive or flammable gases or combustible materials, such as hydrogen sulfide, chlorine, ammonia, sulfur gas, chloride gas, acid, alkali, and salt.</li><li>• Use a servo motor with oil seal in an environment with grinding fluid, oil mist, ferrous powder, or cuttings.</li><li>• Keep the product away from heat sources, such as a heating stove.</li><li>• Do not use the product in an enclosed environment, as it will overheat in such an environment, leading to a shorter service life.</li><li>• Oil seal protection ability, only can prevent dust, cannot prevent oil for a long time.</li></ul> |

Note: [1] Motor is equipped with a flexible feet as standard. If do not need, can be removed by user.

Electrical specifications

Motor performance (1000 rpm)

| Item                      |     | Unit               | Model: MV21-XXXXXXXX-A3A1F-INT |                |                |                |                |                |                |                |                |                |
|---------------------------|-----|--------------------|--------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                           |     |                    | 20A40<br>C10CD                 | 20B55<br>C10CD | 20C75<br>C10CD | 20E11<br>D10CD | 20G15<br>D10CD | 23D18<br>D10CD | 23E22<br>D10CD | 23G30<br>D10CD | 26E37<br>D10CD | 26G45<br>D10CD |
| Rated power               | P N | kW                 | 4                              | 5.5            | 7.5            | 11             | 15             | 18.5           | 22             | 30             | 37             | 45             |
| Rated voltage             | U N | V                  | 380                            |                |                |                |                |                |                |                |                |                |
| Rated speed               | n N | rpm                | 1000                           |                |                |                |                |                |                |                |                |                |
| Peak speed                | -   | rpm                | 1500                           |                |                |                |                |                |                |                |                |                |
| Rated torque              | T N | N·m                | 38                             | 53             | 72             | 105            | 143            | 177            | 210            | 287            | 353            | 430            |
| Peak torque               | -   | N·m                | 60                             | 80             | 110            | 160            | 250            | 300            | 350            | 460            | 515            | 640            |
| Rated current             | I N | A                  | 7.8                            | 10.2           | 14.5           | 20.3           | 29             | 34.5           | 43             | 55             | 70             | 85             |
| Peak current              | -   | A                  | 13                             | 17             | 24             | 33             | 48             | 57             | 71             | 91             | 116            | 140            |
| Moment of inertia         | -   | kg·cm <sup>2</sup> | 69                             | 89             | 112            | 153            | 195            | 378            | 430            | 534            | 509            | 649            |
| Efficiency                | -   | %                  | 88.8                           | 89.7           | 90.6           | 91.4           | 92             | 92.6           | 93.2           | 93.6           | 94             | 94.4           |
| Rated frequency           | -   | Hz                 | 66.7                           |                |                |                |                |                |                |                |                |                |
| Insulation class          | -   | -                  | F                              |                |                |                |                |                |                |                |                |                |
| Degree of protection      | -   | -                  | IP54                           |                |                |                |                |                |                |                |                |                |
| Torque constant at 20°C   | K t | N·m/A              | 5.31                           | 5.53           | 5.31           | 5.31           | 5.23           | 5.32           | 4.98           | 5.38           | 5.13           | 5.21           |
| Back EMF constant at 20°C | K e | V/krpm             | 321.1                          | 334.5          | 321.1          | 321.1          | 316.1          | 321.4          | 301.2          | 325.3          | 310.1          | 315            |
| Stall current             | I o | A                  | 9.36                           | 12.24          | 17.4           | 24.36          | 34.8           | 41.4           | 51.6           | 66             | 84             | 102            |
| Stall torque              | T o | N·m                | 45.84                          | 63.03          | 85.95          | 126.06         | 171.9          | 212.01         | 252.12         | 343.8          | 424.02         | 515.7          |
| Fan type                  | -   | -                  | Single-phase centrifugal fan   |                |                |                |                |                |                |                |                |                |
| Fan power                 | -   | W                  | 48/55                          |                |                |                |                | 140/198        |                |                | 121/148        |                |
| Fan voltage               | -   | V AC               | 207~253                        |                |                |                |                |                |                |                |                |                |
| Fan frequency             | -   | Hz                 | 50/60                          |                |                |                |                |                |                |                |                |                |
| Fan current               | -   | A                  | 0.23~0.24                      |                |                |                |                | 0.62~0.87      |                |                | 0.58~0.71      |                |



# Electrical specifications

## Motor performance (1500 rpm)

| Item                     |     | Unit   | Model: MV21-XXXXXXXXX-A3A1F-INT |                |                |                |                |                |                |                |                |                |                |
|--------------------------|-----|--------|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                          |     |        | 20A55<br>C15CD                  | 20B75<br>C15CD | 20C11<br>D15CD | 20E15<br>D15CD | 20F18<br>D15CD | 20H22<br>D15CD | 23E30<br>D15CD | 23F37<br>D15CD | 23G45<br>D15CD | 26E55<br>D15CD | 26G75<br>D15CD |
| Rated power              | P N | kW     | 5.5                             | 7.5            | 11             | 15             | 18.5           | 22             | 30             | 37             | 45             | 55             | 75             |
| Rated voltage            | U N | V      | 380                             |                |                |                |                |                |                |                |                |                |                |
| Rated speed              | n N | rpm    | 1500                            |                |                |                |                |                |                |                |                |                |                |
| Peak speed               | -   | rpm    | 2250                            |                |                |                |                |                |                |                |                |                |                |
| Rated torque             | T N | N·m    | 35                              | 48             | 70             | 96             | 118            | 140            | 191            | 236            | 287            | 350            | 478            |
| Peak torque              | -   | N·m    | 55                              | 75             | 110            | 185            | 195            | 230            | 345            | 390            | 470            | 515            | 690            |
| Rated current            | I N | A      | 11.4                            | 14.5           | 21.2           | 29.4           | 35             | 41             | 61.5           | 67             | 86             | 105            | 135            |
| Peak current             | -   | A      | 19                              | 24             | 35             | 49             | 58             | 68             | 101            | 111            | 142            | 173            | 223            |
| Moment of inertia        | -   | kg·c   | 69                              | 89             | 112            | 153            | 174            | 216            | 430            | 482            | 534            | 509            | 649            |
| Efficiency               | -   | %      | 89.6                            | 90.4           | 91.4           | 92.1           | 92.6           | 93             | 93.6           | 93.9           | 94.2           | 94.6           | 95             |
| Rated frequency          | -   | Hz     | 100                             |                |                |                |                |                |                |                |                |                |                |
| Insulatio class          | -   | -      | F                               |                |                |                |                |                |                |                |                |                |                |
| Degree of protect tion   | -   | -      | IP54                            |                |                |                |                |                |                |                |                |                |                |
| Torque constant at 20℃   | K t | N·m/A  | 3.39                            | 3.54           | 3.54           | 3.54           | 3.61           | 3.6            | 3.51           | 3.72           | 3.42           | 3.42           | 3.58           |
| Back EMF constant at 20℃ | K e | V/krpm | 205.2                           | 214.07         | 214.07         | 214.07         | 218.53         | 217.4          | 211.93         | 225            | 207.07         | 206.73         | 216.53         |
| Stall current            | I o | A      | 13.68                           | 17.4           | 25.44          | 35.28          | 42             | 49.2           | 73.8           | 80.4           | 103.2          | 126            | 162            |
| Stall torque             | T o | N·m    | 42.02                           | 57.3           | 84.04          | 114.6          | 141.34         | 168.08         | 229.2          | 282.68         | 343.8          | 420.2          | 573            |
| Fan type                 | -   | -      | Single-phase centrifugal fan    |                |                |                |                |                |                |                |                |                |                |
| Fan power                | -   | W      | 48/55                           |                |                |                |                |                | 140/198        |                |                | 121/148        |                |
| Fan voltage              | -   | V AC   | 207~253                         |                |                |                |                |                |                |                |                |                |                |
| Fan frequency            | -   | Hz     | 50/60                           |                |                |                |                |                |                |                |                |                |                |
| Fan current              | -   | A      | 0.23~0.24                       |                |                |                |                |                | 0.62~0.87      |                |                | 0.58~0.71      |                |

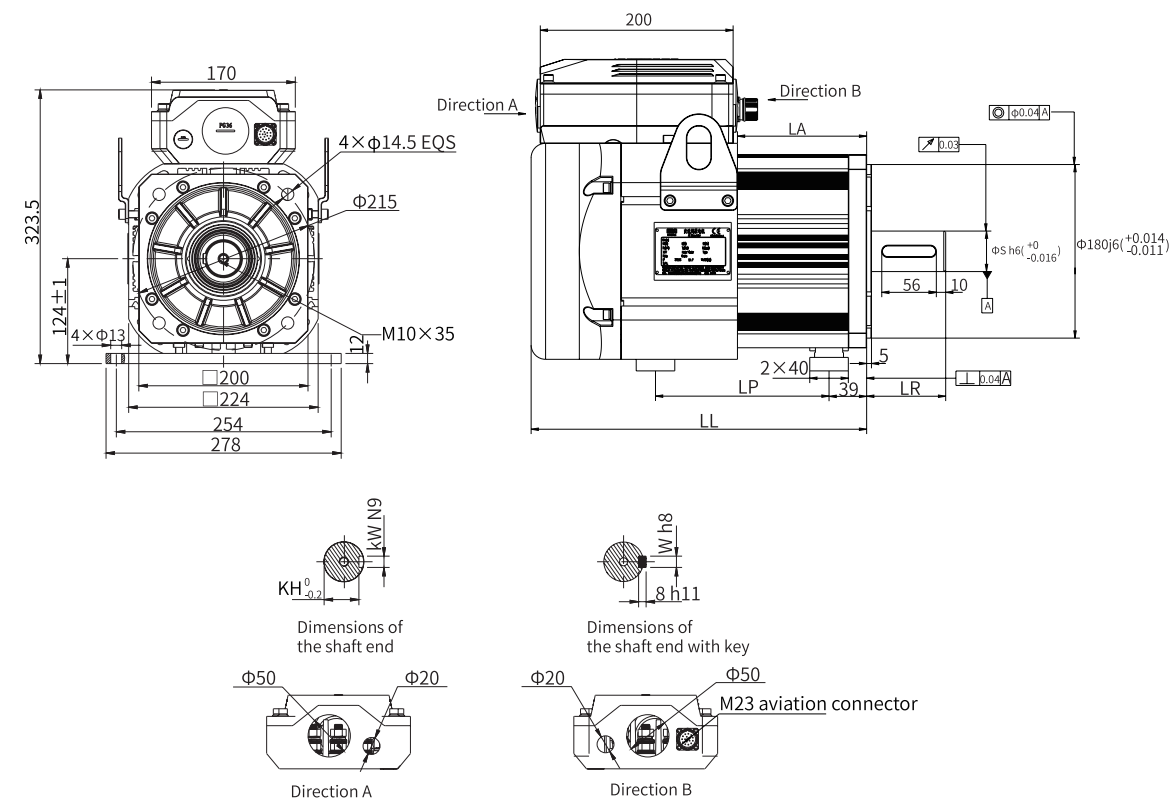
## Motor performance (2000 rpm)

| Item                      |     | Unit               | Model: MV21-XXXXXXXXX-A3A1F-INT |                |                |                |                |                |                |                |                |                |                |                |
|---------------------------|-----|--------------------|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                           |     |                    | 20A55<br>C20CD                  | 20B75<br>C20CD | 20C11<br>D20CD | 20D15<br>D20CD | 20E18<br>D20CD | 20F22<br>D20CD | 23D30<br>D20CD | 23E37<br>D20CD | 23F45<br>D20CD | 23G55<br>D20CD | 26E75<br>D20CD | 26G90<br>D20CD |
| Rated power               | P N | kW                 | 5.5                             | 7.5            | 11             | 15             | 18.5           | 22             | 30             | 37             | 45             | 55             | 75             | 90             |
| Rated voltage             | U N | V                  | 380                             |                |                |                |                |                |                |                |                |                |                |                |
| Rated speed               | n N | rpm                | 2000                            |                |                |                |                |                |                |                |                |                |                |                |
| Peak speed                | -   | rpm                | 3000                            |                |                |                |                |                |                |                |                |                |                |                |
| Rated torque              | T N | N·m                | 26                              | 36             | 53             | 72             | 88             | 105            | 143            | 177            | 215            | 263            | 358            | 430            |
| Peak torque               | -   | N·m                | 45                              | 60             | 90             | 135            | 140            | 170            | 240            | 290            | 360            | 420            | 510            | 640            |
| Rated current             | I N | A                  | 10.8                            | 13.8           | 21.6           | 30             | 36             | 44.2           | 57             | 66.5           | 86.5           | 100            | 135            | 168            |
| Peak current              | -   | A                  | 18                              | 23             | 36             | 50             | 59             | 73             | 94             | 110            | 143            | 165            | 223            | 277            |
| Moment of inertia         | -   | kg·cm <sup>2</sup> | 69                              | 89             | 112            | 133            | 153            | 174            | 378            | 430            | 482            | 534            | 509            | 649            |
| Efficiency                | -   | %                  | 90.1                            | 90.9           | 91.6           | 92.2           | 92.8           | 93.2           | 93.7           | 94.1           | 94.4           | 94.7           | 95             | 95.3           |
| Rated frequency           | -   | Hz                 | 133.3                           |                |                |                |                |                |                |                |                |                |                |                |
| Insula tion class         | -   | -                  | F                               |                |                |                |                |                |                |                |                |                |                |                |
| Degree of protection      | -   | -                  | IP54                            |                |                |                |                |                |                |                |                |                |                |                |
| Torque constant at 20°C   | K t | N·m/A              | 2.66                            | 2.88           | 2.66           | 2.62           | 2.66           | 2.58           | 2.66           | 2.77           | 2.63           | 2.69           | 2.69           | 2.61           |
| Back EMF constant at 20°C | K e | V/krpm             | 160.55                          | 173.95         | 160.55         | 158.45         | 160.55         | 156.15         | 160.7          | 167.3          | 158.8          | 162.6          | 162.4          | 157.5          |
| Stall current             | I o | A                  | 12.96                           | 16.56          | 25.92          | 36             | 43.2           | 53.04          | 68.4           | 79.8           | 103.8          | 120            | 162            | 201.6          |
| Stall torque              | T o | N·m                | 31.515                          | 42.975         | 63.03          | 85.95          | 106.005        | 126.06         | 171.9          | 212.01         | 257.85         | 315.15         | 429.75         | 515.7          |
| Fan type                  | -   | -                  | Single-phase centrifugal fan    |                |                |                |                |                |                |                |                |                |                |                |
| Fan power                 | -   | W                  | 48/55                           |                |                |                |                |                | 140/198        |                |                |                | 121/148        |                |
| Fan voltage               | -   | V AC               | 207~253                         |                |                |                |                |                |                |                |                |                |                |                |
| Fan frequency             | -   | Hz                 | 50/60                           |                |                |                |                |                |                |                |                |                |                |                |
| Fan current               | -   | A                  | 0.23~0.24                       |                |                |                |                |                | 0.62~0.87      |                |                |                | 0.58~0.71      |                |



Dimensions

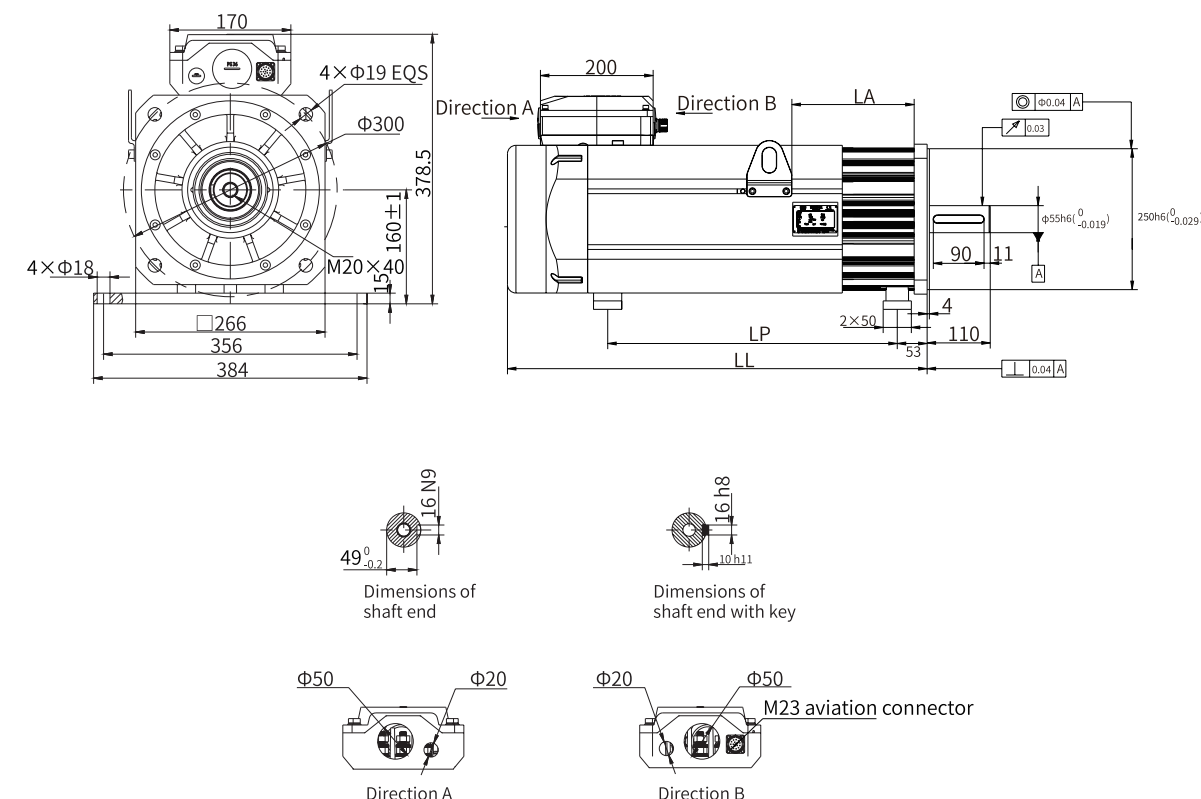
Series 1



| Model<br>MV21-XXXXXXXXX-A3A1F-INT | LL    | LR  | LP  | LA  | S  | KH | KW | W  | Weight<br>(kg) |
|-----------------------------------|-------|-----|-----|-----|----|----|----|----|----------------|
| 20A40C10CD                        |       |     |     |     |    |    |    |    |                |
| 20A55C15CD                        | 319   | 80  | 151 | 134 | 38 | 33 | 10 | 10 | 33             |
| 20A55C20CD                        |       |     |     |     |    |    |    |    |                |
| 20B55C10CD                        |       |     |     |     |    |    |    |    |                |
| 20B75C15CD                        | 347.5 | 80  | 180 | 134 | 38 | 33 | 10 | 10 | 38             |
| 20B75C20CD                        |       |     |     |     |    |    |    |    |                |
| 20C75C10CD                        |       |     |     |     |    |    |    |    |                |
| 20C11D15CD                        | 376   | 110 | 208 | 134 | 42 | 37 | 12 | 12 | 44             |
| 20C11D20CD                        |       |     |     |     |    |    |    |    |                |
| 20D15D20CD                        | 404.5 | 110 | 237 | 134 | 42 | 37 | 12 | 12 | 49             |
| 20E11D10CD                        |       |     |     |     |    |    |    |    |                |
| 20E15D15CD                        | 433   | 110 | 265 | 135 | 42 | 37 | 12 | 12 | 55             |
| 20E18D20CD                        |       |     |     |     |    |    |    |    |                |
| 20F18D15CD                        | 461.5 | 110 | 294 | 148 | 42 | 37 | 12 | 12 | 60             |
| 20F22D20CD                        |       |     |     |     |    |    |    |    |                |
| 20G15D10CD                        | 490   | 110 | 322 | 162 | 42 | 37 | 12 | 12 | 65             |
| 20H22D15CD                        | 518.5 | 110 | 351 | 180 | 42 | 37 | 12 | 12 | 72             |

Note: LP is the pitch between the mounting feet.

Series 2

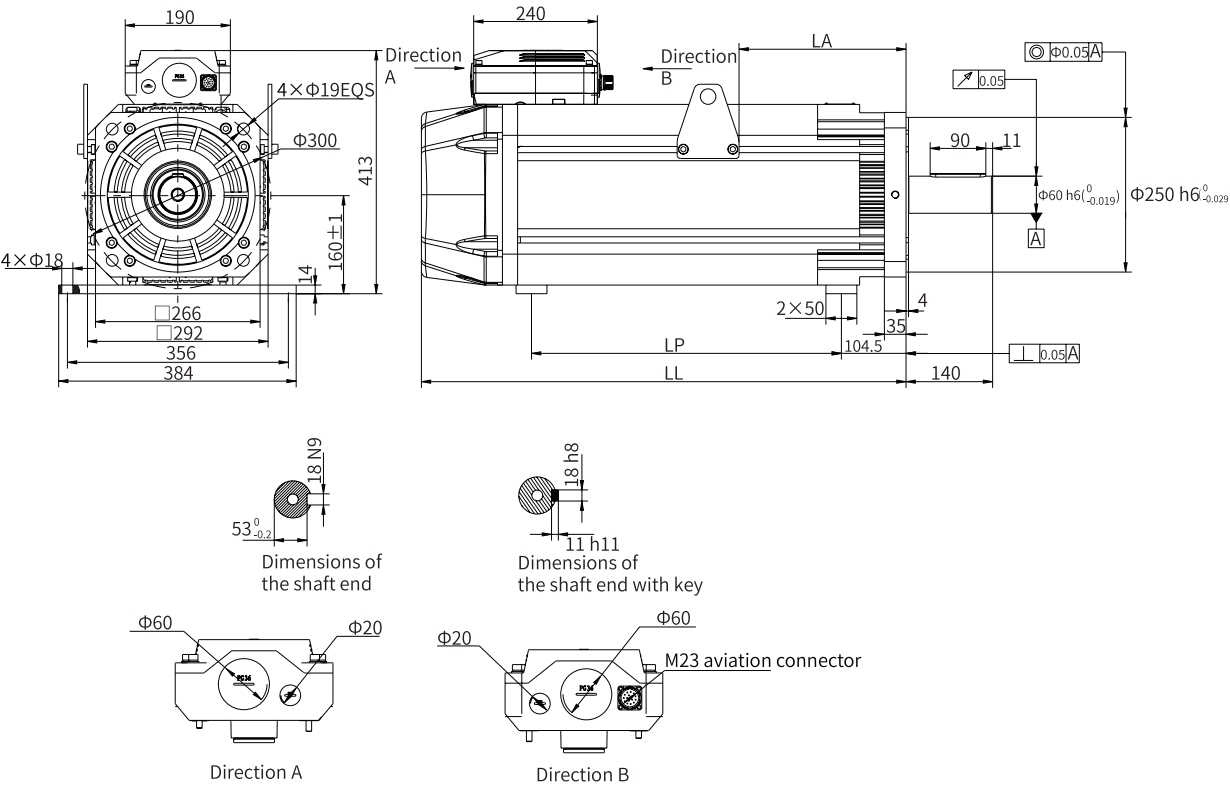


| Model<br>MV21-XXXXXXXXX-A3A1F-INT | LL    | LP  | LA  | Weight (kg) |
|-----------------------------------|-------|-----|-----|-------------|
| 23D18D10CD                        |       |     |     |             |
| 23D30D20CD                        | 569.7 | 337 | 188 | 91          |
| 23E22D10CD                        |       |     |     |             |
| 23E30D15CD                        | 613.2 | 380 | 205 | 108         |
| 23E37D20CD                        |       |     |     |             |
| 23F37D15CD                        | 658.7 | 426 | 223 | 123         |
| 23F45D20CD                        |       |     |     |             |
| 23G30D10CD                        |       |     |     |             |
| 23G45D15CD                        | 703.2 | 470 | 240 | 134         |
| 23G55D20CD                        |       |     |     |             |

Note: LP is the pitch between the mounting feet.

Dimensions

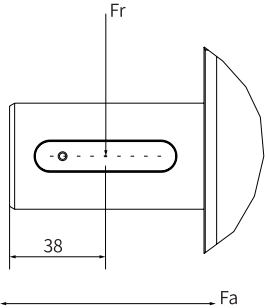
Series 3



| Model MV21-XXXXXXXX-A3A1F-INT | LL    | LP  | LA  | Weight (kg) |
|-------------------------------|-------|-----|-----|-------------|
| 26E37D10CD                    | 684   | 401 | 220 | 175.4       |
| 26E55D15CD                    |       |     |     |             |
| 26E75D20CD                    |       |     |     |             |
| 26G45D10CD                    | 783.5 | 501 | 270 | 205         |
| 26G75D15CD                    |       |     |     |             |
| 26G90D20CD                    |       |     |     |             |

Note: LP is the pitch between the mounting feet.

Axial/radial allowable load



| Model                     | Maximum permissible radial force of shaft extension Fr (N) | Maximum permissible axial force of the shaft extension Fa (N) |
|---------------------------|------------------------------------------------------------|---------------------------------------------------------------|
| MV21-20A55C20CD-A3A1F-INT | 1922                                                       | 539                                                           |
| MV21-20A55C15CD-A3A1F-INT | 2132                                                       | 597                                                           |
| MV21-20A40C10CD-A3A1F-INT | 2463                                                       | 690                                                           |
| MV21-20B75C20CD-A3A1F-INT | 1843                                                       | 514                                                           |
| MV21-20B75C15CD-A3A1F-INT | 2053                                                       | 572                                                           |
| MV21-20B55C10CD-A3A1F-INT | 2385                                                       | 665                                                           |
| MV21-20C11D20CD-A3A1F-INT | 1644                                                       | 489                                                           |
| MV21-20C11D15CD-A3A1F-INT | 1841                                                       | 547                                                           |
| MV21-20C75C10CD-A3A1F-INT | 2153                                                       | 640                                                           |
| MV21-20D15D20CD-A3A1F-INT | 1629                                                       | 465                                                           |
| MV21-20E18D20CD-A3A1F-INT | 1597                                                       | 441                                                           |
| MV21-20E15D15CD-A3A1F-INT | 1809                                                       | 499                                                           |
| MV21-20E11D10CD-A3A1F-INT | 2145                                                       | 592                                                           |
| MV21-20F22D20CD-A3A1F-INT | 1550                                                       | 416                                                           |
| MV21-20F18D15CD-A3A1F-INT | 1769                                                       | 475                                                           |
| MV21-20G15D10CD-A3A1F-INT | 2070                                                       | 543                                                           |
| MV21-20H22D15CD-A3A1F-INT | 1654                                                       | 425                                                           |
| MV21-23D30D20CD-A3A1F-INT | 2807                                                       | 678                                                           |
| MV21-23D18D10CD-A3A1F-INT | 3779                                                       | 912                                                           |
| MV21-23E37D20CD-A3A1F-INT | 2665                                                       | 631                                                           |
| MV21-23E30D15CD-A3A1F-INT | 3049                                                       | 722                                                           |
| MV21-23E22D10CD-A3A1F-INT | 3656                                                       | 865                                                           |
| MV21-23F45D20CD-A3A1F-INT | 2507                                                       | 584                                                           |
| MV21-23F37D15CD-A3A1F-INT | 2897                                                       | 675                                                           |
| MV21-23G55D20CD-A3A1F-INT | 2335                                                       | 536                                                           |
| MV21-23G45D15CD-A3A1F-INT | 2731                                                       | 627                                                           |
| MV21-23G30D10CD-A3A1F-INT | 3357                                                       | 771                                                           |
| MV21-26E75D20CD-A3A1F-INT | 2576                                                       | 653                                                           |
| MV21-26E55D15CD-A3A1F-INT | 2980                                                       | 756                                                           |
| MV21-26E37D10CD-A3A1F-INT | 3620                                                       | 918                                                           |
| MV21-26G90D20CD-A3A1F-INT | 2183                                                       | 532                                                           |
| MV21-26G45D10CD-A3A1F-INT | 3269                                                       | 796                                                           |
| MV21-26G75D15CD-A3A1F-INT | 2603                                                       | 634                                                           |

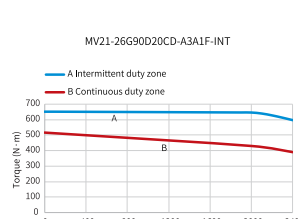
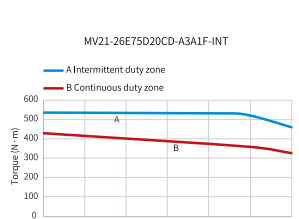
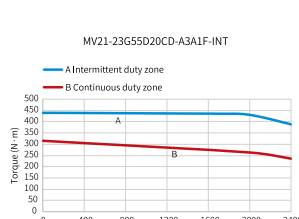
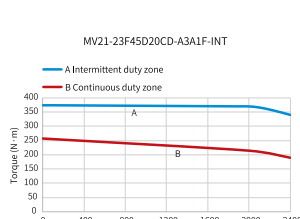
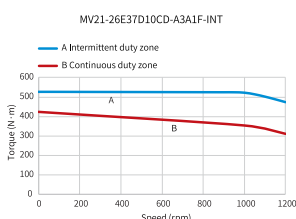
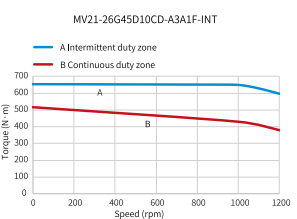
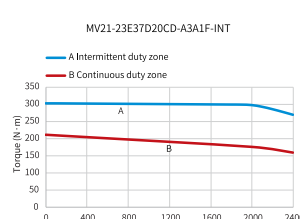
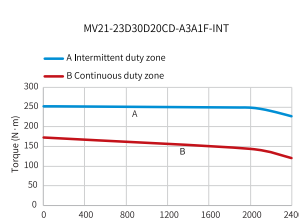
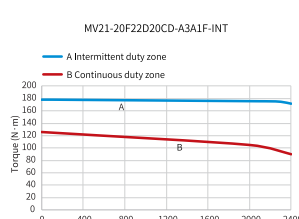
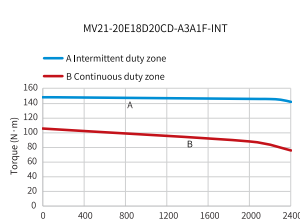
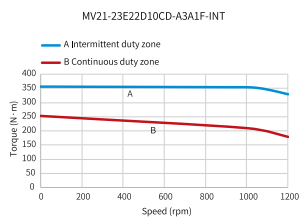
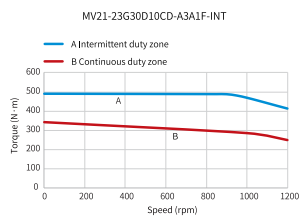
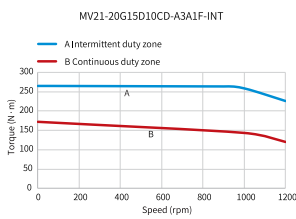
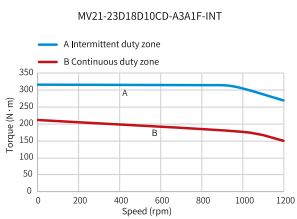
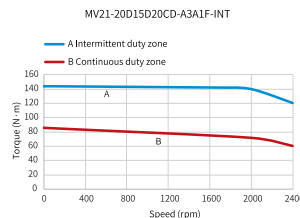
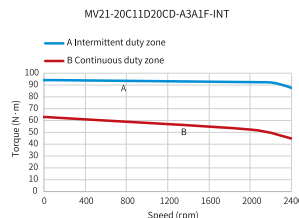
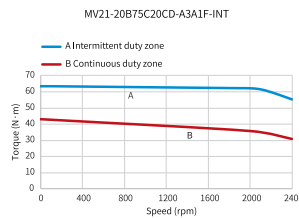
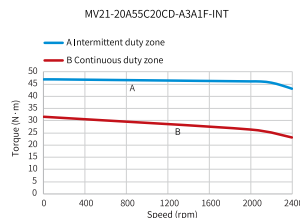
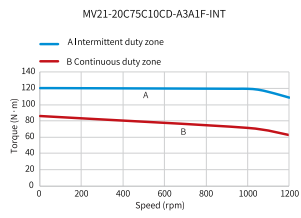
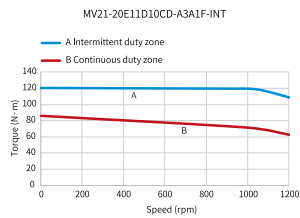
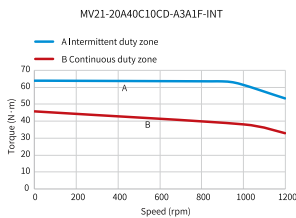
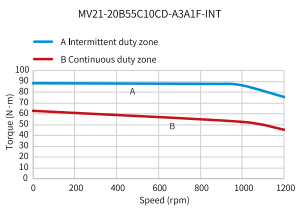
Note:

- Ensure that the maximum applied force of the shaft extensions in the axial and radial directions is not higher than the value listed in the preceding table during actual application.
- For applications involving conveyor connection or where the maximum applied force of the shaft extension in the radial and axial directions is higher than the value listed in the preceding table, or where the lifetime of the bearing must be higher than 50000h, contact Inovance technical support.



# Torque-Speed Characteristics

## 1000rpm rated speed



## 1500rpm rated speed

