

# 1336 PLUS II Selection Guide



## Catalog Number Explanation

|              |          |                |          |                                  |          |                                              |          |                                                 |          |                                               |          |                                                  |
|--------------|----------|----------------|----------|----------------------------------|----------|----------------------------------------------|----------|-------------------------------------------------|----------|-----------------------------------------------|----------|--------------------------------------------------|
| <b>1336F</b> | <b>—</b> | <b>A007</b>    | <b>—</b> | <b>AA</b>                        | <b>—</b> | <b>EN</b>                                    | <b>—</b> | <b>LA6</b>                                      | <b>—</b> | <b>HAS1</b>                                   | <b>—</b> | <b>GM1</b>                                       |
| BULLETIN NO. |          | VOLTAGE/RATING |          | ENCLOSURE<br>(MUST BE SPECIFIED) |          | LANGUAGE<br>(MUST BE SPECIFIED) <sup>1</sup> |          | CONTROL<br>INTERFACE<br>(OPTIONAL) <sup>2</sup> |          | HUMAN<br>INTERFACE<br>(OPTIONAL) <sup>2</sup> |          | COMMUNICATION<br>CARD<br>(OPTIONAL) <sup>2</sup> |

<sup>1</sup> A Language Module must be specified with each drive.

<sup>2</sup> At least one of either a Control Interface, Human Interface or Communication Card Option will be required to make the drive functional. The chosen option(s) may be ordered factory installed or as add-on kits.

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## Constant/Variable Torque Drives and Enclosures

### 200-240V

| Drive Rating <sup>1</sup><br>Constant Torque |      |       |                    | Open<br>IP00 | NEMA Type 1<br>IP20    | NEMA Type 4<br>IP65 | NEMA Type 12<br>IP54 |
|----------------------------------------------|------|-------|--------------------|--------------|------------------------|---------------------|----------------------|
| Amps                                         | kW   | CT HP | VT HP <sup>2</sup> | No Enclosure | General Purpose        | Resist Water, Dust  | Industrial Use       |
| 2.3                                          | 0.37 | 0.5   | 0.5                | AQF05 – AN   | AQF05 – AA             | AQF05 – AF          | AQF05 – AJ           |
| 3.0                                          | 0.56 | 0.75  | 0.75               | AQF07 – AN   | AQF07 – AA             | AQF07 – AF          | AQF07 – AJ           |
| 4.5                                          | 0.75 | 1     | 1                  | AQF10 – AN   | AQF10 – AA             | AQF10 – AF          | AQF10 – AJ           |
| 6.0                                          | 1.2  | 1.5   | 1.5                | AQF15 – AN   | AQF15 – AA             | AQF15 – AF          | AQF15 – AJ           |
| 8.0                                          | 1.5  | 2     | 2                  | AQF20 – AN   | AQF20 – AA             | AQF20 – AF          | AQF20 – AJ           |
| 12                                           | 2.2  | 3     | 3                  | AQF30 – AN   | AQF30 – AA             | AQF30 – AF          | AQF30 – AJ           |
| 18                                           | 4.0  | 5     | 5                  | AQF50 – AN   | AQF50 – AA             | AQF50 – AF          | AQF50 – AJ           |
| 22                                           | 5.5  | 7.5   | 7.5                | AQF75 – AN   | AQF75 – AA             | AQF75 – AF          | AQF75 – AJ           |
| 22                                           | 5.5  | 7.5   | 7.5                | A007 – AN    | A007 – AA              | A007 – AF           | A007 – AJ            |
| 34                                           | 7.5  | 10    | 10                 | A010 – AN    | A010 – AA              | A010 – AF           | A010 – AJ            |
| 48                                           | 11   | 15    | 15                 | A015 – AN    | A015 – AA              | A015 – AF           | A015 – AJ            |
| 65                                           | 15   | 20    | 20                 | A020 – AN    | A020 – AA              | A020 – AF           | A020 – AJ            |
| 77                                           | 18.5 | 25    | 25                 | A025 – AN    | A025 – AA              | A025 – AF           | A025 – AJ            |
| 80                                           | 22   | 30    | 30                 | A030 – AN    | A030 – AA              | A030 – AF           | A030 – AJ            |
| 120                                          | 30   | 40    | 40                 | A040 – AN    | A040 – AA              | 3                   | 3                    |
| 150                                          | 37   | 50    | 50                 | A050 – AN    | A050 – AA              | 3                   | 3                    |
| 180                                          | 45   | 60    | 60                 | A060 – AN    | A060 – AA              | 3                   | 3                    |
| 240                                          | 56   | 75    | 75                 | A075 – AN    | A075 – AA <sup>9</sup> | 3                   | 3                    |
| 291                                          | 75   | 100   | 100                | A100 – AN    | A100 – AA <sup>9</sup> | 3                   | 3                    |
| 325                                          | 93   | 125   | 125                | A125 – AN    | A125 – AA <sup>9</sup> | 3                   | 3                    |

### 380-480V

| Drive Rating <sup>1</sup><br>Constant Torque |      | Drive Rating <sup>1</sup><br>Variable Torque |                 | Open<br>IP00             | NEMA Type 1<br>IP20       | NEMA Type 1<br>IP20           | NEMA Type 4<br>IP65     | NEMA Type 12<br>IP54    |
|----------------------------------------------|------|----------------------------------------------|-----------------|--------------------------|---------------------------|-------------------------------|-------------------------|-------------------------|
| Amps                                         | HP   | Amps                                         | HP <sup>2</sup> | No Enclosure             | General Purpose           | CE/C-tick Conformance         | Resist Water, Dust      | Industrial Use          |
| 1.1                                          | 0.5  | 1.2                                          | 0.5             | BRF05 – AN               | BRF05 – AA                | BRF05 – AE                    | BRF05 – AF              | BRF05 – AJ              |
| 1.6                                          | 0.75 | 1.7                                          | 0.75            | BRF07 – AN               | BRF07 – AA                | BRF07 – AE                    | BRF07 – AF              | BRF07 – AJ              |
| 2.1                                          | 1    | 2.3                                          | 1               | BRF10 – AN               | BRF10 – AA                | BRF10 – AE                    | BRF10 – AF              | BRF10 – AJ              |
| 2.8                                          | 1.5  | 3.0                                          | 1.5             | BRF15 – AN               | BRF15 – AA                | BRF15 – AE                    | BRF15 – AF              | BRF15 – AJ              |
| 3.8                                          | 2    | 4.0                                          | 2               | BRF20 – AN               | BRF20 – AA                | BRF20 – AE                    | BRF20 – AF              | BRF20 – AJ              |
| 5.3                                          | 3    | 6.0                                          | 3               | BRF30 – AN               | BRF30 – AA                | BRF30 – AE                    | BRF30 – AF              | BRF30 – AJ              |
| 8.4                                          | 5    | 9.0                                          | 5               | BRF50 – AN               | BRF50 – AA                | BRF50 – AE                    | BRF50 – AF              | BRF50 – AJ              |
| 13.3                                         | 7.5  | 15.4                                         | 10              | BRF75 – AN               | BRF75 – AA                | BRF75 – AE                    | BRF75 – AF              | BRF75 – AJ              |
| 16.1                                         | 10   | 22.0                                         | 15              | BRF100 – AN              | BRF100 – AA               | BRF100 – AE                   | BRF100 – AF             | BRF100 – AJ             |
| 24.0                                         | 15   | 24.0                                         | 15              | BRF150 – AN              | BRF150 – AA               | BRF150 – AE                   | BRF150 – AF             | BRF150 – AJ             |
| 27.0                                         | 20   | 27.0                                         | 20              | BRF200 – AN              | BRF200 – AA               | BRF200 – AE                   | BRF200 – AF             | BRF200 – AJ             |
| 24.2                                         | 15   | 27                                           | 20              | B015 – AN                | B015 – AA                 | B015 – AE                     | B015 – AF               | B015 – AJ               |
| 31                                           | 20   | 34                                           | 25              | B020 – AN                | B020 – AA                 | B020 – AE                     | B020 – AF               | B020 – AJ               |
| 39                                           | 25   | 42                                           | 30              | B025 – AN                | B025 – AA                 | B025 – AE                     | B025 – AF               | B025 – AJ               |
| 45                                           | 30   | 48                                           | 30              | B030 – AN                | B030 – AA                 | B030 – AE                     | B030 – AF               | B030 – AJ               |
| 59                                           | 40   | 59                                           | 40              | BX040 – AN               | BX040 – AA                | BX040 – AE                    | BX040 – AF              | BX040 – AJ              |
| 60                                           | 40   | 65                                           | 50              | B040 – AN                | B040 – AA                 | B040 – AE                     | B040 – AF               | B040 – AJ               |
| 75                                           | 50   | 75                                           | 60              | B050 – AN                | B050 – AA                 | B050 – AE                     | B050 – AF               | B050 – AJ               |
| 77                                           | 60   | 77                                           | 60              | BX060 – AN <sup>4</sup>  | BX060 – AA <sup>4</sup>   | BX060 – AE <sup>4</sup>       | BX060 – AF <sup>4</sup> | BX060 – AJ <sup>4</sup> |
| 85                                           | 60   | 96                                           | 75              | B060 – AN                | B060 – AA                 | B060 – AE                     | 3                       | 3                       |
| 106                                          | 75   | 120                                          | 100             | B075 – AN                | B075 – AA                 | B075 – AE                     | 3                       | 3                       |
| 138                                          | 100  | 150                                          | 125             | B100 – AN                | B100 – AA                 | B100 – AE                     | 3                       | 3                       |
| 173                                          | 125  | 180                                          | 150             | B125 – AN                | B125 – AA                 | B125 – AE                     | 3                       | 3                       |
| 180                                          | 150  | 180                                          | 150             | BX150 – AN               | BX150 – AA                | BX150 – AE                    | 3                       | 3                       |
| 199                                          | 150  | 240                                          | 200             | B150 – AN                | B150 – AA <sup>9</sup>    | B150 – AE <sup>9</sup>        | 3                       | 3                       |
| 263                                          | 200  | 292                                          | 250             | B200 – AN                | B200 – AA <sup>9</sup>    | B200 – AE <sup>9</sup>        | 3                       | 3                       |
| 325                                          | 250  | 325                                          | 250             | B250 – AN                | B250 – AA <sup>9</sup>    | B250 – AE <sup>9</sup>        | 3                       | 3                       |
| 325                                          | 250  | 360                                          | 300             | BP250 – AN <sup>7</sup>  | BP250 – AA <sup>7,9</sup> | –                             | 3                       | 3                       |
|                                              |      |                                              |                 | BPR250 – AN <sup>7</sup> | –                         | BPR250A – AE <sup>7,8,9</sup> |                         |                         |
| 325                                          | 250  | 360                                          | 300             | BX250 – AN               | BX250A – AA <sup>9</sup>  | BX250A – AE <sup>8,9</sup>    | 3                       | 3                       |
| 360                                          | 300  | 425                                          | 350             | B300 – AN                | B300A – AA <sup>9</sup>   | B300A – AE <sup>8,9</sup>     | 3                       | 3                       |
| 360                                          | 300  | 425                                          | 350             | BP300 – AN <sup>7</sup>  | BP300 – AA <sup>7,9</sup> | –                             | 3                       | 3                       |
|                                              |      |                                              |                 | BPR300 – AN <sup>7</sup> | –                         | BPR300A – AE <sup>7,8,9</sup> |                         |                         |
| 425                                          | 350  | 475                                          | 400             | B350 – AN                | B350A – AA <sup>9</sup>   | B350A – AE <sup>8,9</sup>     | 3                       | 3                       |
| 425                                          | 350  | 475                                          | 400             | BP350 – AN <sup>7</sup>  | BP350 – AA <sup>7,9</sup> | –                             | 3                       | 3                       |
|                                              |      |                                              |                 | BPR350 – AN <sup>7</sup> | –                         | BPR350A – AE <sup>7,8,9</sup> |                         |                         |
| 475                                          | 400  | 525                                          | 450             | B400 – AN                | B400A – AA <sup>9</sup>   | B400A – AE <sup>8,9</sup>     | 3                       | 3                       |
| 475                                          | 400  | 532                                          | 450             | BP400 – AN <sup>7</sup>  | BP400 – AA <sup>7,9</sup> | –                             | 3                       | 3                       |
|                                              |      |                                              |                 | BPR400 – AN <sup>7</sup> | –                         | BPR400A – AE <sup>7,8,9</sup> |                         |                         |
| 525                                          | 450  | 590                                          | 500             | B450 – AN                | B450A – AA <sup>9</sup>   | B450A – AE <sup>8,9</sup>     | 3                       | 3                       |
| 532                                          | 450  | 532                                          | 450             | BP450 – AN <sup>7</sup>  | BP450 – AA <sup>7,9</sup> | –                             | 3                       | 3                       |
|                                              |      |                                              |                 | BPR450 – AN <sup>7</sup> | –                         | BPR450A – AE <sup>7,8,9</sup> |                         |                         |
| 590                                          | 500  | 670                                          | 600             | B500 – AN                | B500A – AA <sup>9</sup>   | B500A – AE <sup>8,9</sup>     | 3                       | 3                       |
| 670                                          | 600  | 670                                          | 600             | B600 – AN                | B600A – AA <sup>9</sup>   | B600A – AE <sup>8,9</sup>     | 3                       | 3                       |

See page 65 for footnotes.

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## Constant/Variable Torque Drives and Enclosures

### 500-600V

| Drive Rating <sup>1</sup> |      | CT HP | VT HP | Open IP00                | NEMA Type 1 IP20           | NEMA Type 4 IP65   | NEMA Type 12 IP54 |
|---------------------------|------|-------|-------|--------------------------|----------------------------|--------------------|-------------------|
| Amps                      | kW   |       |       | No Enclosure             | General Purpose            | Resist Water, Dust | Industrial Use    |
| 2.0                       | 0.75 | 1     | 1     | CWF10 – AN               | CWF10 – AA                 | CWF10 – AF         | CWF10 – AJ        |
| 4.0                       | 1.5  | 2     | 2     | CWF20 – AN               | CWF20 – AA                 | CWF20 – AF         | CWF20 – AJ        |
| 6.0                       | 2.2  | 3     | 3     | CWF30 – AN               | CWF30 – AA                 | CWF30 – AF         | CWF30 – AJ        |
| 8.0                       | 3.7  | 5     | 5     | CWF50 – AN               | CWF50 – AA                 | CWF50 – AF         | CWF50 – AJ        |
| 10                        | 5.5  | 7.5   | 7.5   | CWF75 – AN               | CWF75 – AA                 | CWF75 – AF         | CWF75 – AJ        |
| 12                        | 7.5  | 10    | 10    | CWF100 – AN              | CWF100 – AA                | CWF100 – AF        | CWF100 – AJ       |
| 19                        | 11   | 15    | 15    | CWF150 – AN              | CWF150 – AA                | CWF150 – AF        | CWF150 – AJ       |
| 24                        | 15   | 20    | 20    | CWF200 – AN              | CWF200 – AA                | CWF200 – AF        | CWF200 – AJ       |
| 30                        | 18.5 | 25    | 25    | C025 – AN                | C025 – AA                  | C025 – AF          | C025 – AJ         |
| 35                        | 22   | 30    | 30    | C030 – AN                | C030 – AA                  | C030 – AF          | C030 – AJ         |
| 45                        | 30   | 40    | 40    | C040 – AN                | C040 – AA                  | C040 – AF          | C040 – AJ         |
| 57                        | 37   | 50    | 50    | C050 – AN                | C050 – AA                  | C050 – AF          | C050 – AJ         |
| 62                        | 45   | 60    | 60    | C060 – AN                | C060 – AA                  | C060 – AF          | C060 – AJ         |
| 85                        | 56   | 75    | 75    | C075 – AN                | C075 – AA                  | 3                  | 3                 |
| 109                       | 75   | 100   | 100   | C100 – AN                | C100 – AA                  | 3                  | 3                 |
| 138                       | 93   | 125   | 125   | C125 – AN                | C125 – AA                  | 3                  | 3                 |
| 158                       | 112  | 150   | 150   | C150 – AN                | C150 – AA <sup>9</sup>     | 3                  | 3                 |
| 252                       | 149  | 200   | 200   | C200 – AN                | C200 – AA <sup>9</sup>     | 3                  | 3                 |
| 284                       | 187  | 250   | 250   | C250 – AN                | C250 – AA <sup>9</sup>     | 3                  | 3                 |
| 300                       | 224  | 300   | 300   | CX300 – AN               | CX300 – AA <sup>9</sup>    | 3                  | 3                 |
| 350                       | 261  | 350   | 350   | CP350 – AN <sup>7</sup>  | CP350 – AA <sup>7, 9</sup> | 3                  | 3                 |
|                           |      |       |       | CPR350 – AN <sup>7</sup> | –                          | 3                  | 3                 |
| 400                       | 298  | 400   | 400   | CP400 – AN <sup>7</sup>  | CP400 – AA <sup>7, 9</sup> | 3                  | 3                 |
|                           |      |       |       | CPR400 – AN <sup>7</sup> | –                          | 3                  | 3                 |
| 300                       | 224  | 300   | 300   | C300 – AN                | C300A – AA <sup>9</sup>    | 3                  | 3                 |
| 350                       | 261  | 350   | 350   | C350 – AN                | C350A – AA <sup>9</sup>    | 3                  | 3                 |
| 400                       | 298  | 400   | 400   | C400 – AN                | C400A – AA <sup>9</sup>    | 3                  | 3                 |
| 450                       | 336  | 450   | 450   | C450 – AN                | C450A – AA <sup>9</sup>    | 3                  | 3                 |
| 500                       | 373  | 500   | 500   | C500 – AN                | C500A – AA <sup>9</sup>    | 3                  | 3                 |
| 600                       | 448  | 600   | 600   | C600 – AN                | C600A – AA <sup>9</sup>    | 3                  | 3                 |

### Language Group

| Description           | Used With . . . | Option Code |
|-----------------------|-----------------|-------------|
| Language <sup>5</sup> | All Drives      |             |
| English               |                 | -EN         |
| French                |                 | -FR         |
| German                |                 | -DE         |
| Italian               |                 | -IT         |
| Japanese              |                 | -JP         |
| Spanish               |                 | -ES         |

### Dynamic Brake Kits

| Description            | Used With . . .                     | Catalog Number Complete Brake | Catalog Number Brake Chopper |
|------------------------|-------------------------------------|-------------------------------|------------------------------|
| for 200-240V AC Drives | 0.37-3.7 kW (0.5-5 HP) <sup>6</sup> | -KA005                        | -WA018                       |
|                        | 5.5-7.5 kW (7.5-10 HP) <sup>6</sup> | -KA010                        | -WA018                       |
|                        | 11-22 kW (15-30 HP) <sup>6</sup>    | NA                            | -WA070                       |
|                        | 30-56 kW (40-75 HP) <sup>6</sup>    | NA                            | -WA115                       |
| for 380-480V AC Drives | 0.37-3.7 kW (0.5-5 HP) <sup>6</sup> | -KB005                        | -WB009                       |
|                        | 5.5-7.5 kW (7.5-10 HP) <sup>6</sup> | -KB010                        | -WB009                       |
|                        | 11-37 kW (15-50 HP) <sup>6</sup>    | -KB050                        | -WB035                       |
|                        | 45-149 kW (60-200 HP) <sup>6</sup>  | NA                            | -WB110                       |
| for 500-600V AC Drives | 0.37-3.7 kW (0.5-5 HP) <sup>6</sup> | -KC005                        | -WC009                       |
|                        | 5.5-7.5 kW (7.5-10 HP) <sup>6</sup> | -KC010                        | -WC009                       |
|                        | 11-30 kW (15-40 HP) <sup>6</sup>    | -KC050                        | -WC035                       |
|                        | 37-149 kW (50-200 HP) <sup>6</sup>  | NA                            | -WC085                       |

<sup>1</sup> Drive rating is based on nominal voltage and carrier frequency at altitudes of 1000 meters or less. Refer to the Derating Guidelines on Pages 57-61.

<sup>2</sup> VT /HP ratings are valid for 240V or 480V only.

<sup>3</sup> Not available in this rating.

<sup>4</sup> 480 Volts only.

<sup>5</sup> A Language Group must be specified with each drive for User Manual.

<sup>6</sup> Multiple kits may be utilized together to obtain higher ratings. Refer to the appropriate brake publication (1336-5.64 or 5.65) for further information.

<sup>7</sup> A "Common Mode Choke" option (-CM) or "No Common Mode Choke" option (-NCM) must be specified with each F Frame Drive.

<sup>8</sup> These units include as standard an integral EMC filter.

<sup>9</sup> This drive will not accept a "Snap-In" HIM (HASP, HAS1, HAS2, HCSP, HCS1, HCS2).

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## Factory Installed Options

| Description                                                                                                                                                                                                                                                                                                                                                                            | Used With . . .                                                | Option Code (Installed)                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Communication Options<br>Single Point RIO<br>RS232/422/485, DF1 & DH485 Protocol<br>DeviceNet<br>Enhanced DeviceNet                                                                                                                                                                                                                                                                    | Frames B & Up<br>(Adapter 6 Only)                              | -GM1 <sup>3</sup><br>-GM2 <sup>3</sup><br>-GM5 <sup>3</sup><br>-GM6 <sup>3</sup>                           |
| Communication Options<br>Single Point RIO with Snap-In Cradle<br>RS232/422/485, DF1 & DH485 Protocol w/Snap-In Cradle<br>DeviceNet<br>Enhanced DeviceNet<br>Snap-In Cradle/Blank Plate                                                                                                                                                                                                 | All Frames<br>(Adapter 1 Only)                                 | -GMS1 <sup>3</sup><br>-GMS2 <sup>3</sup><br>-GMS5 <sup>3</sup><br>-GMS6 <sup>3</sup><br>-HASB <sup>3</sup> |
| Control Interface<br>Contact Closure<br>+24V AC/DC<br>115V AC                                                                                                                                                                                                                                                                                                                          | All Drives                                                     | -L4<br>-L5<br>-L6                                                                                          |
| Control Interface with Encoder Feedback<br>Contact Closure<br>+24V AC/DC<br>115V AC                                                                                                                                                                                                                                                                                                    | All Drives                                                     | -L4E<br>-L5E<br>-L6E                                                                                       |
| Control Interface with Encoder Feedback <sup>5</sup><br>Contact Closure<br>+24V AC/DC<br>115V AC                                                                                                                                                                                                                                                                                       | All Drives                                                     | -L7E<br>-L8E<br>-L9E                                                                                       |
| Analog Interface – Port A (Choose One)<br>Two Isolated Configurable Inputs<br>One Isolated Bi-Polar Input (±10V) and One Isolated Thermistor Input<br>One Isolated Bi-polar Input (±10V) and One Isolated Configurable Input                                                                                                                                                           | All Drives                                                     | -LA2<br>-LA6<br>-LA7                                                                                       |
| Analog Interface – Port B (Choose One)<br>Single-ended, Non-isolated Input Configurable or Pot & 2 Single-ended, Non-isolated 0-20mA Outputs<br>Two Isolated Configurable Outputs<br>One Isolated Configurable Input & Output<br>One Isolated Pulse Input & Non-isolated Output and One Single-ended, Non-isolated 0-10V Output                                                        | All Drives                                                     | -LA1<br>-LA3<br>-LA4<br>-LA5                                                                               |
| Human Interface Module, Snap-In IP20<br>(NEMA Type 1)<br>Snap-In Cradle/Blank Plate<br>Programmer Only<br>Programmer Only & Upload/Download Capability<br>Programmer/Controller with Analog Pot<br>Programmer/Controller with Analog Pot & Upload/Download Capability<br>Programmer/Controller with Digital Pot<br>Programmer/Controller with Digital Pot & Upload/Download Capability | IP00 (Open) A-G Frame & IP20<br>(NEMA Type 1) A-D Frame Drives | -HASB<br>-HASP<br>-HCSP<br>-HAS1<br>-HCS1<br>-HAS2<br>-HCS2                                                |
| Human Interface Module, IP20 (NEMA Type 1)<br>Programmer Only<br>Programmer/Controller with Analog Pot<br>Programmer/Controller with Digital Pot                                                                                                                                                                                                                                       | IP20 (NEMA Type 1)<br>E-G Frame Enclosures                     | -HAP <sup>2</sup><br>-HA1 <sup>2</sup><br>-HA2 <sup>2</sup>                                                |
| Human Interface Module, IP66 <sup>1</sup><br>Programmer/Display Only<br>Programmer/Controller with Digital Pot                                                                                                                                                                                                                                                                         | IP66 or IP54<br>(NEMA Type 12) Drives                          | -HJP<br>-HJ2                                                                                               |

<sup>1</sup> This option may be used on an IP65 or IP66 rated enclosure to meet watertight indoor applications.

<sup>2</sup> Requires a Communication Option Cable (1202-Cxx) to be functional.

<sup>3</sup> A maximum of one Communication Option may be ordered factory installed on A Frame drives (2 for B Frame drives and up, limited to 1-Snap-in and 1-Main Control Board mount).

<sup>4</sup> Each Flex I/O SCANport Module requires (1) 1203-FB1 and (1) 1203-FM1.

<sup>5</sup> The encoder loss detection feature of the 1336 PLUS II requires the use of L7E, L8E or L9E.

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### Field Installed Options

| Description                                                                                                                                                                                                                                                                                                                                                       | Used With . . .                                                                                                                             | Catalog No. (Loose Kit)                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Remote Mounted w/Integral 115V AC Power Supply<br>Single Point RIO<br>RS 232/422/485, DF1, DH485                                                                                                                                                                                                                                                                  | All Drives                                                                                                                                  | 1203-GD1 <sup>2</sup><br>1203-GD2 <sup>2</sup>                                                     |
| Remote Mounted for use with 24V DC Power Supply<br>Single Point RIO<br>RS232/422/485, DF1, DH485<br>DeviceNet<br>Enhanced DeviceNet                                                                                                                                                                                                                               | All Drives                                                                                                                                  | 1203-GK1 <sup>2</sup><br>1203-GK2 <sup>2</sup><br>1203-GK5 <sup>2</sup><br>1203-GU6 <sup>2</sup>   |
| Drive Mounted and Drive Powered<br>(with loose snap-in cradle/blank plate)<br>Single Point RIO<br>RS232/422/485, DF1, DH485 Protocol<br>DeviceNet<br>Enhanced DeviceNet                                                                                                                                                                                           | A Frame Drives –<br>Adapter 1 w/Snap-in<br>Cradle/Blank Plate<br>B Frame & Up –<br>Adapter 6 (or Adapter 1<br>w/Snap-in Cradle/Blank Plate) | 1336-GM1 <sup>3</sup><br>1336-GM2 <sup>3</sup><br>1336-GM5 <sup>3</sup><br>1336-GM6 <sup>3,5</sup> |
| Firmware Download Module<br>Module allows firmware upgrade                                                                                                                                                                                                                                                                                                        | All Drives                                                                                                                                  | 1336F-FDM                                                                                          |
| ControlNet™ to SCANport Adapter<br>Remote Mounted (DIN Rail) - 24V DC<br>Requires 24V DC power supply                                                                                                                                                                                                                                                             | All Drives                                                                                                                                  | 1203-CN1 <sup>3,5</sup>                                                                            |
| Smart Serial to SCANport Adapter<br>Includes 1203-SFC & 1202-C10 Cables                                                                                                                                                                                                                                                                                           | All Drives                                                                                                                                  | 1203-SSS                                                                                           |
| SCANport Expander Module<br>One to Two<br>One to Four                                                                                                                                                                                                                                                                                                             | All Drives                                                                                                                                  | 1203-SG2<br>1203-SG4                                                                               |
| Flex I/O SCANport Module <sup>4</sup><br>Flex I/O Terminal Base<br>Flex I/O Module                                                                                                                                                                                                                                                                                | All Drives                                                                                                                                  | 1336-FB1<br>1336-FM1                                                                               |
| HIM, Snap-In, IP20 (NEMA Type 1)<br>Snap-In Cradle/Blank Plate<br>Programmer Only<br>Programmer Only & Upload/Download Capability<br>Programmer/Controller with Analog Pot<br>Programmer/Controller with Analog Pot & Upload/Download Capability<br>Programmer/Controller with Digital Pot<br>Programmer/Controller with Digital Pot & Upload/Download Capability | IP00 (Open) A-G Frame & IP20<br>(NEMA Type 1) A-D Frame<br>Drives                                                                           | 1201-HASB<br>1201-HASP<br>1201-HCSP<br>1201-HAS1<br>1201-HCS1<br>1201-HAS2<br>1201-HCS2            |
| HIM, Hand-Held, IP20 (NEMA Type 1)<br>Requires Cable Below<br>Programmer Only<br>Programmer/Controller w/Analog Speed Pot<br>Programmer/Controller w/Digital Speed Pot                                                                                                                                                                                            | IP20 (NEMA Type 1) E-G Frame<br>Enclosures                                                                                                  | 1201-HAP<br>1201-HA1<br>1201-HA2                                                                   |
| HIM IP66 (NEMA Type 12/UL Type 4X-Indoor)<br>Programmer Only<br>Programmer/Controller w/Digital Speed Pot                                                                                                                                                                                                                                                         | IP66 (NEMA Type<br>12/UL Type 4X<br>Indoor) Enclosures                                                                                      | 1201-HJp <sup>2</sup><br>1201-HJ2 <sup>2</sup>                                                     |
| Option Cable Kit - Connect to Comm. Port<br>0.33 Meters (1.1 Feet)<br>1 Meter (3.3 Feet)<br>3 Meter (9.8 Feet)<br>9 Meter (29.5 Feet)                                                                                                                                                                                                                             | All HIMs not mounted<br>on the drive chassis                                                                                                | 1202-C03<br>1202-C10<br>1202-C30<br>1202-C90                                                       |
| Door Mount Bezel Kit, IP20 (NEMA Type 1)                                                                                                                                                                                                                                                                                                                          | User Supplied IP20<br>(NEMA Type 1)<br>Enclosures and HIM                                                                                   | 1201-DMA                                                                                           |

<sup>1</sup> This option may be used on an IP65 or IP66 rated enclosure to meet watertight indoor applications.

<sup>2</sup> Requires a Communication Option Cable (1202-Cxx) to be functional.

<sup>3</sup> A maximum of one Communication Option may be drive mounted.

<sup>4</sup> Each Flex I/O SCANport Module requires (1) 1203-FB1 and (1) 1203-FM1.

<sup>5</sup> Adapter is programmed/configured with Windows™ HyperTerminal via RS-232 using the 1203-SFC cable (purchased separately), or using a compatible network specific software tool.