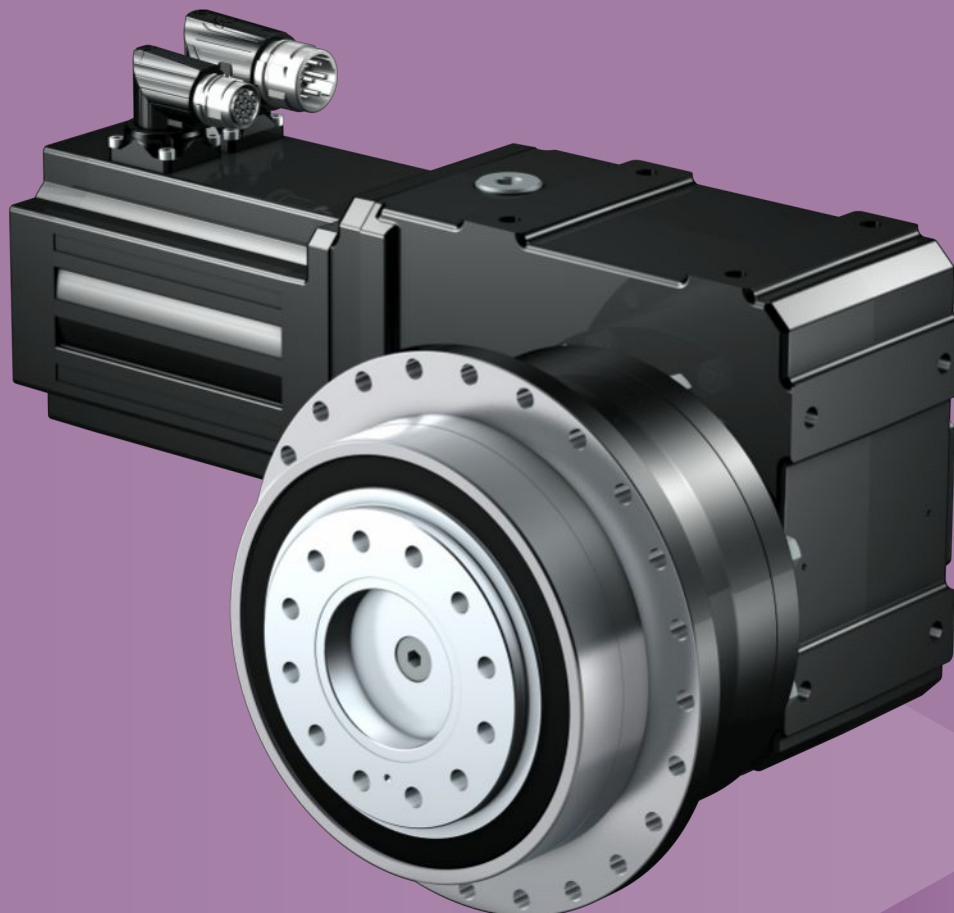




13

## Right-angle planetary geared motors

PHK

### 13.1 Overview

High-performance precision right-angle planetary geared motors

#### Features

|                                                           |              |
|-----------------------------------------------------------|--------------|
| Power density                                             | ★★★★☆        |
| Backlash                                                  | ★★★★★        |
| Price category                                            | €€€€         |
| Shaft load                                                | ★★★★★        |
| Smooth operation                                          | ★★★★☆        |
| Torsional stiffness                                       | ★★★★☆        |
| Mass moment of inertia                                    | ★★★★★        |
| Helical gearing                                           | ✓            |
| Maintenance-free                                          | ✓            |
| Continuous operation without cooling                      | ✓            |
| Stiff output bearings due to pretension                   | ✓            |
| Reinforced output bearing (PH3 – PH5)                     | ✓ (optional) |
| Compact and highly dynamic due to direct motor attachment | ✓            |

Key ★☆☆☆☆ good | ★★★★★ excellent

€ Economy | €€€€€ Premium

#### Technical data

|                |                  |
|----------------|------------------|
| $i$            | 16 – 555         |
| $M_{2acc}$     | 89 – 7500 Nm     |
| $\Delta\phi_2$ | 1.5 – 4.5 arcmin |
| $\eta_{get}$   | 92 – 93 %        |

## 13.2 Selection tables

The technical data specified in the selection tables applies to:

- Installation altitudes up to 1000 m above sea level
- Surrounding temperatures from 0 °C to 40 °C
- Drives with convection-cooled motors (e.g. EZ401U)

For the technical data on drives with forced ventilated motors (e.g. EZ401B), refer to

<https://configurator.stoeber.de/en-US/>.

An explanation of the formula symbols can be found in Chapter [▶ 20.1](#).

| $n_{2N}$                                               | $M_{2N}$ | $M_{2,0}$ | $a_{th}$ | S   | Type                       | $M_{2acc}$ | $M_{2accHT}$ | $M_{2NOT}$ | i     | $i_{exakt}$ | $n_{1maxDB}$   | $n_{1maxZB}$       | $\Delta\phi_2$ | $J_1$                | $\Delta\phi_{2red}$ | $C_2$           | m    |    |
|--------------------------------------------------------|----------|-----------|----------|-----|----------------------------|------------|--------------|------------|-------|-------------|----------------|--------------------|----------------|----------------------|---------------------|-----------------|------|----|
| [rpm]                                                  | [Nm]     | [Nm]      |          |     |                            | [Nm]       | [Nm]         | [Nm]       |       |             | EL1,2<br>[rpm] | EL3,4,5,6<br>[rpm] | [arcmin]       | [kgcm <sup>2</sup> ] | [arcmin]            | [Nm/<br>arcmin] | [kg] |    |
| PH531K ( $n_{1N} = 3000$ rpm, $M_{2acc,max} = 390$ Nm) |          |           |          |     |                            |            |              |            |       |             |                |                    |                |                      |                     |                 |      |    |
| 13                                                     | 203      | 208       | 12       | 1.1 | PH531_0050K102_0470 EZ301U | 385        | 400          | 705        | 234.6 | 11495/49    | 4000           | 4000               | 7000           | 4.0                  | 0.22                | 2.0             | 62   | 17 |
| 17                                                     | 152      | 155       | 11       | 1.4 | PH531_0050K102_0350 EZ301U | 385        | 400          | 705        | 175.5 | 3686/21     | 4000           | 4000               | 7000           | 4.0                  | 0.23                | 2.0             | 62   | 17 |
| 21                                                     | 121      | 124       | 10       | 1.8 | PH531_0050K102_0280 EZ301U | 366        | 366          | 705        | 140.2 | 2945/21     | 4000           | 4000               | 7000           | 4.0                  | 0.26                | 2.0             | 62   | 17 |
| 21                                                     | 208      | 219       | 17       | 1.1 | PH531_0050K102_0280 EZ302U | 385        | 400          | 705        | 140.2 | 2945/21     | 4000           | 4000               | 7000           | 4.0                  | 0.36                | 2.0             | 62   | 18 |
| 26                                                     | 101      | 103       | 9.7      | 2.2 | PH531_0050K102_0230 EZ301U | 303        | 303          | 705        | 116.3 | 5700/49     | 4000           | 4000               | 7000           | 4.0                  | 0.28                | 2.0             | 62   | 17 |
| 26                                                     | 172      | 182       | 17       | 1.3 | PH531_0050K102_0230 EZ302U | 385        | 400          | 705        | 116.3 | 5700/49     | 4000           | 4000               | 7000           | 4.0                  | 0.38                | 2.0             | 62   | 18 |
| 34                                                     | 76       | 78        | 9.1      | 2.9 | PH531_0050K102_0175 EZ301U | 229        | 229          | 666        | 87.82 | 10450/119   | 4000           | 3800               | 6000           | 4.0                  | 0.32                | 2.0             | 62   | 17 |
| 34                                                     | 130      | 137       | 16       | 1.7 | PH531_0050K102_0175 EZ302U | 385        | 400          | 666        | 87.82 | 10450/119   | 4000           | 3800               | 6000           | 4.0                  | 0.42                | 2.0             | 62   | 18 |
| 34                                                     | 169      | 179       | 20       | 1.3 | PH531_0050K102_0175 EZ303U | 385        | 400          | 666        | 87.82 | 10450/119   | 4000           | 3800               | 6000           | 4.0                  | 0.53                | 2.0             | 62   | 18 |
| 43                                                     | 61       | 62        | 8.6      | 3.6 | PH531_0050K102_0140 EZ301U | 184        | 184          | 535        | 70.57 | 494/7       | 4000           | 3800               | 6000           | 4.0                  | 0.37                | 2.0             | 62   | 17 |
| 43                                                     | 104      | 110       | 15       | 2.1 | PH531_0050K102_0140 EZ302U | 329        | 329          | 535        | 70.57 | 494/7       | 4000           | 3800               | 6000           | 4.0                  | 0.47                | 2.0             | 62   | 18 |
| 43                                                     | 136      | 144       | 19       | 1.6 | PH531_0050K102_0140 EZ303U | 385        | 394          | 535        | 70.57 | 494/7       | 4000           | 3800               | 6000           | 4.0                  | 0.58                | 2.0             | 62   | 18 |
| 43                                                     | 184      | 197       | 26       | 1.2 | PH531_0050K102_0140 EZ401U | 385        | 400          | 705        | 70.57 | 494/7       | 4000           | 3800               | 6000           | 4.0                  | 1.1                 | 2.0             | 62   | 20 |
| 52                                                     | 50       | 51        | 8.2      | 4.4 | PH531_0050K102_0115 EZ301U | 151        | 151          | 438        | 57.83 | 1330/23     | 3600           | 3300               | 5500           | 4.0                  | 0.44                | 2.0             | 62   | 17 |
| 52                                                     | 86       | 90        | 14       | 2.6 | PH531_0050K102_0115 EZ302U | 269        | 269          | 438        | 57.83 | 1330/23     | 3600           | 3300               | 5500           | 4.0                  | 0.54                | 2.0             | 62   | 18 |
| 52                                                     | 111      | 118       | 18       | 2.0 | PH531_0050K102_0115 EZ303U | 323        | 323          | 438        | 57.83 | 1330/23     | 3600           | 3300               | 5500           | 4.0                  | 0.65                | 2.0             | 62   | 18 |
| 52                                                     | 151      | 162       | 25       | 1.5 | PH531_0050K102_0115 EZ401U | 385        | 400          | 705        | 57.83 | 1330/23     | 3600           | 3300               | 5500           | 4.0                  | 1.2                 | 2.0             | 62   | 20 |
| 65                                                     | 68       | 72        | 13       | 3.2 | PH531_0050K102_0092 EZ302U | 215        | 215          | 351        | 46.25 | 8740/189    | 3600           | 3300               | 5500           | 4.0                  | 0.63                | 2.0             | 62   | 18 |
| 65                                                     | 89       | 94        | 17       | 2.5 | PH531_0050K102_0092 EZ303U | 259        | 259          | 351        | 46.25 | 8740/189    | 3600           | 3300               | 5500           | 4.0                  | 0.74                | 2.0             | 62   | 18 |
| 65                                                     | 121      | 129       | 23       | 1.8 | PH531_0050K102_0092 EZ401U | 366        | 366          | 705        | 46.25 | 8740/189    | 3600           | 3300               | 5500           | 4.0                  | 1.3                 | 2.0             | 62   | 20 |
| 65                                                     | 185      | 202       | 36       | 1.2 | PH531_0050K102_0092 EZ501U | 385        | 400          | 705        | 46.25 | 8740/189    | 3600           | 3300               | 5500           | 4.0                  | 3.2                 | 2.0             | 62   | 21 |
| 65                                                     | 202      | 224       | 39       | 1.1 | PH531_0050K102_0092 EZ402U | 385        | 400          | 705        | 46.25 | 8740/189    | 3600           | 3300               | 5500           | 4.0                  | 2.0                 | 2.0             | 62   | 21 |
| 72                                                     | 62       | 65        | 13       | 3.6 | PH531_0050K102_0083 EZ302U | 193        | 193          | 315        | 41.55 | 1911/46     | 3600           | 3300               | 5500           | 4.0                  | 0.59                | 2.0             | 62   | 18 |
| 72                                                     | 80       | 85        | 17       | 2.7 | PH531_0050K102_0083 EZ303U | 232        | 232          | 315        | 41.55 | 1911/46     | 3600           | 3300               | 5500           | 4.0                  | 0.70                | 2.0             | 62   | 18 |
| 72                                                     | 108      | 116       | 23       | 2.0 | PH531_0050K102_0083 EZ401U | 329        | 329          | 705        | 41.55 | 1911/46     | 3600           | 3300               | 5500           | 4.0                  | 1.2                 | 2.0             | 62   | 20 |
| 72                                                     | 166      | 182       | 35       | 1.3 | PH531_0050K102_0083 EZ501U | 385        | 400          | 705        | 41.55 | 1911/46     | 3600           | 3300               | 5500           | 4.0                  | 3.2                 | 2.0             | 62   | 21 |
| 72                                                     | 182      | 201       | 38       | 1.2 | PH531_0050K102_0083 EZ402U | 385        | 400          | 705        | 41.55 | 1911/46     | 3600           | 3300               | 5500           | 4.0                  | 1.9                 | 2.0             | 62   | 21 |
| 90                                                     | 49       | 52        | 14       | 3.8 | PH531_0050K102_0066 EZ302U | 155        | 155          | 252        | 33.22 | 299/9       | 3600           | 3300               | 5500           | 4.0                  | 0.71                | 2.0             | 62   | 18 |
| 90                                                     | 64       | 68        | 19       | 2.9 | PH531_0050K102_0066 EZ303U | 186        | 186          | 252        | 33.22 | 299/9       | 3600           | 3300               | 5500           | 4.0                  | 0.82                | 2.0             | 62   | 18 |
| 90                                                     | 87       | 93        | 21       | 2.5 | PH531_0050K102_0066 EZ401U | 263        | 263          | 705        | 33.22 | 299/9       | 3600           | 3300               | 5500           | 4.0                  | 1.4                 | 2.0             | 62   | 20 |
| 90                                                     | 133      | 145       | 33       | 1.7 | PH531_0050K102_0066 EZ501U | 385        | 400          | 705        | 33.22 | 299/9       | 3600           | 3300               | 5500           | 4.0                  | 3.3                 | 2.0             | 62   | 21 |
| 90                                                     | 145      | 161       | 36       | 1.5 | PH531_0050K102_0066 EZ402U | 385        | 400          | 705        | 33.22 | 299/9       | 3600           | 3300               | 5500           | 4.0                  | 2.1                 | 2.0             | 62   | 21 |
| 90                                                     | 213      | 266       | 53       | 1.0 | PH531_0050K102_0066 EZ404U | 385        | 400          | 705        | 33.22 | 299/9       | 3600           | 3300               | 5500           | 4.0                  | 3.4                 | 2.0             | 62   | 23 |
| 100                                                    | 78       | 84        | 21       | 2.8 | PH531_0050K102_0060 EZ401U | 237        | 237          | 705        | 30.00 | 30/1        | 3300           | 2800               | 5000           | 4.0                  | 1.4                 | 2.0             | 62   | 20 |
| 100                                                    | 120      | 131       | 32       | 1.8 | PH531_0050K102_0060 EZ501U | 385        | 400          | 705        | 30.00 | 30/1        | 3300           | 2800               | 5000           | 4.0                  | 3.4                 | 2.0             | 62   | 21 |
| 100                                                    | 131      | 145       | 35       | 1.7 | PH531_0050K102_0060 EZ402U | 385        | 400          | 705        | 30.00 | 30/1        | 3300           | 2800               | 5000           | 4.0                  | 2.1                 | 2.0             | 62   | 21 |
| 100                                                    | 193      | 240       | 51       | 1.1 | PH531_0050K102_0060 EZ404U | 385        | 400          | 705        | 30.00 | 30/1        | 3300           | 2800               | 5000           | 4.0                  | 3.5                 | 2.0             | 62   | 23 |
| 100                                                    | 207      | 223       | 55       | 1.1 | PH531_0050K102_0060 EZ502U | 385        | 400          | 705        | 30.00 | 30/1        | 3300           | 2800               | 5000           | 4.0                  | 5.7                 | 2.0             | 62   | 22 |
| 100                                                    | 207      | 232       | 55       | 1.1 | PH531_0050K102_0060 EZ701U | 385        | 400          | 705        | 30.00 | 30/1        | 3300           | 2800               | 5000           | 4.0                  | 9.0                 | 2.0             | 62   | 24 |
| 108                                                    | 41       | 44        | 16       | 3.8 | PH531_0050K102_0056 EZ302U | 130        | 130          | 211        | 27.84 | 7600/273    | 3300           | 2800               | 5000           | 4.0                  | 0.98                | 2.0             | 62   | 18 |
| 108                                                    | 54       | 57        | 21       | 2.9 | PH531_0050K102_0056 EZ303U | 156        | 156          | 211        | 27.84 | 7600/273    | 3300           | 2800               | 5000           | 4.0                  | 1.1                 | 2.0             | 62   | 18 |
| 108                                                    | 73       | 78        | 20       | 3.0 | PH531_0050K102_0056 EZ401U | 220        | 220          | 705        | 27.84 | 7600/273    | 3300           | 2800               | 5000           | 4.0                  | 1.6                 | 2.0             | 62   | 20 |
| 108                                                    | 111      | 122       | 31       | 2.0 | PH531_0050K102_0056 EZ501U | 385        | 400          | 705        | 27.84 | 7600/273    | 3300           | 2800               | 5000           | 4.0                  | 3.6                 | 2.0             | 62   | 21 |
| 108                                                    | 122      | 135       | 34       | 1.8 | PH531_0050K102_0056 EZ402U | 385        | 400          | 705        | 27.84 | 7600/273    | 3300           | 2800               | 5000           | 4.0                  | 2.3                 | 2.0             | 62   | 21 |
| 108                                                    | 179      | 223       | 50       | 1.2 | PH531_0050K102_0056 EZ404U | 385        | 400          | 705        | 27.84 | 7600/273    | 3300           | 2800               | 5000           | 4.0                  | 3.7                 | 2.0             | 62   | 23 |
| 108                                                    | 192      | 207       | 54       | 1.1 | PH531_0050K102_0056 EZ502U | 385        | 400          | 705        | 27.84 | 7600/273    | 3300           | 2800               | 5000           | 4.0                  | 5.9                 | 2.0             | 62   | 22 |
| 108                                                    | 192      | 215       | 54       | 1.1 | PH531_0050K102_0056 EZ701U | 385        | 400          | 705        | 27.84 | 7600/273    | 3300           | 2800               | 5000           | 4.0                  | 9.2                 | 2.0             | 62   | 24 |
| 150                                                    | 39       | 41        | 27       | 2.9 | PH531_0050K102_0040 EZ303U | 112        | 112          | 152        | 20.00 | 20/1        | 3300           | 2800               | 5000           | 4.0                  | 1.3                 | 2.0             | 62   | 18 |
| 150                                                    | 52       | 56        | 19       | 4.2 | PH531_0050K102_0040 EZ401U | 158        | 158          | 607        | 20.00 | 20/1        | 3300           | 2800               | 5000           | 4.0                  | 1.9                 | 2.0             | 62   | 20 |
| 150                                                    | 80       | 88        | 29       | 2.7 | PH531_0050K102_0040 EZ501U | 298        | 298          | 607        | 20.00 | 20/1        | 3300           | 2800               | 5000           | 4.0                  | 3.8                 | 2.0             | 62   | 21 |
| 150                                                    | 88       | 97        | 32       | 2.5 | PH531_0050K102_0040 EZ402U | 298        | 298          | 607        | 20.00 | 20/1        | 3300           | 2800               | 5000           | 4.0                  | 2.6                 | 2.0             | 62   | 21 |
| 150                                                    | 129      | 160       | 46       | 1.7 | PH531_0050K102_0040 EZ404U | 385        | 400          | 607        | 20.00 | 20/1        | 3300           | 2800               | 5000           | 4.0                  | 3.9                 | 2.0             | 62   | 23 |



























| $n_{2N}$                                                 | $M_{2N}$ | $M_{2,0}$ | $a_{ih}$ | S   | Type                        | $M_{2acc}$ | $M_{2accHT}$ | $M_{2NOT}$ | i     | $i_{exakt}$ | $n_{1maxDB}$ |           | $n_{1maxZB}$ | $\Delta\varphi_2$ | $J_1$                | $\Delta\varphi_{2red}$ | $C_2$       | m    |
|----------------------------------------------------------|----------|-----------|----------|-----|-----------------------------|------------|--------------|------------|-------|-------------|--------------|-----------|--------------|-------------------|----------------------|------------------------|-------------|------|
| [rpm]                                                    | [Nm]     | [Nm]      |          |     |                             | [Nm]       | [Nm]         | [Nm]       |       |             | EL1,2        | EL3,4,5,6 | [rpm]        | [arcmin]          | [kgcm <sup>2</sup> ] | [arcmin]               | [Nm/arcmin] | [kg] |
| PH1041K ( $n_{IN} = 3000$ rpm, $M_{2acc,max} = 7500$ Nm) |          |           |          |     |                             |            |              |            |       |             |              |           |              |                   |                      |                        |             |      |
| 26                                                       | 2228     | 3159      | 25       | 2.2 | PH1041_0060K613_0190 EZ705U | 7500       | —            | 15000      | 114.0 | 51057/448   | 2600         | 2300      | 4000         | 4.0               | 42                   | —                      | 1210        | 149  |
| 26                                                       | 2332     | 3880      | 26       | 2.1 | PH1041_0060K613_0190 EZ802U | 7500       | —            | 15000      | 114.0 | 51057/448   | 2600         | 2300      | 4000         | 4.0               | 66                   | —                      | 1210        | 157  |
| 26                                                       | 2782     | 5041      | 31       | 1.8 | PH1041_0060K613_0190 EZ803U | 7500       | —            | 15000      | 114.0 | 51057/448   | 2600         | 2300      | 4000         | 4.0               | 91                   | —                      | 1210        | 164  |
| 32                                                       | 1861     | 2639      | 24       | 2.7 | PH1041_0060K613_0160 EZ705U | 7500       | —            | 15000      | 95.21 | 54839/576   | 2200         | 2000      | 3500         | 4.0               | 44                   | —                      | 1210        | 149  |
| 32                                                       | 1949     | 3242      | 25       | 2.6 | PH1041_0060K613_0160 EZ802U | 7500       | —            | 15000      | 95.21 | 54839/576   | 2200         | 2000      | 3500         | 4.0               | 68                   | —                      | 1210        | 157  |
| 32                                                       | 2324     | 4212      | 30       | 2.2 | PH1041_0060K613_0160 EZ803U | 7500       | —            | 15000      | 95.21 | 54839/576   | 2200         | 2000      | 3500         | 4.0               | 94                   | —                      | 1210        | 164  |
| 40                                                       | 1481     | 2100      | 22       | 3.4 | PH1041_0060K613_0125 EZ705U | 7232       | —            | 15000      | 75.77 | 9699/128    | 2200         | 2000      | 3500         | 4.0               | 48                   | —                      | 1210        | 149  |
| 40                                                       | 1551     | 2580      | 23       | 3.2 | PH1041_0060K613_0125 EZ802U | 6954       | —            | 15000      | 75.77 | 9699/128    | 2200         | 2000      | 3500         | 4.0               | 72                   | —                      | 1210        | 157  |
| 40                                                       | 1850     | 3352      | 28       | 2.7 | PH1041_0060K613_0125 EZ803U | 7500       | —            | 15000      | 75.77 | 9699/128    | 2200         | 2000      | 3500         | 4.0               | 98                   | —                      | 1210        | 164  |
| 62                                                       | 951      | 1348      | 22       | 4.6 | PH1041_0060K613_0081 EZ705U | 4643       | —            | 9689       | 48.64 | 255285/5248 | 1800         | 1700      | 3000         | 4.0               | 62                   | —                      | 1210        | 149  |
| 62                                                       | 996      | 1656      | 23       | 4.4 | PH1041_0060K613_0081 EZ802U | 4464       | —            | 9689       | 48.64 | 255285/5248 | 1800         | 1700      | 3000         | 4.0               | 86                   | —                      | 1210        | 157  |
| 62                                                       | 1187     | 2152      | 28       | 3.7 | PH1041_0060K613_0081 EZ803U | 6473       | —            | 15000      | 48.64 | 255285/5248 | 1800         | 1700      | 3000         | 4.0               | 111                  | —                      | 1210        | 164  |
| PH1041K ( $n_{IN} = 4500$ rpm, $M_{2acc,max} = 7500$ Nm) |          |           |          |     |                             |            |              |            |       |             |              |           |              |                   |                      |                        |             |      |
| 9.9                                                      | 3983     | 6415      | 17       | 1.3 | PH1041_0060K613_0760 EZ505U | 7500       | —            | 15000      | 456.8 | 380091/832  | 3100         | 2800      | 4500         | 4.0               | 13                   | —                      | 1210        | 142  |
| 9.9                                                      | 4402     | 14465     | 19       | 1.1 | PH1041_0060K613_0760 EZ802U | 7500       | —            | 15000      | 456.8 | 380091/832  | 3100         | 2800      | 4500         | 4.0               | 59                   | —                      | 1210        | 157  |
| 12                                                       | 3333     | 5368      | 16       | 1.5 | PH1041_0060K613_0640 EZ505U | 7500       | —            | 15000      | 382.3 | 391437/1024 | 3100         | 2800      | 4500         | 4.0               | 13                   | —                      | 1210        | 142  |
| 12                                                       | 3684     | 12103     | 18       | 1.4 | PH1041_0060K613_0640 EZ802U | 7500       | —            | 15000      | 382.3 | 391437/1024 | 3100         | 2800      | 4500         | 4.0               | 59                   | —                      | 1210        | 157  |
| 12                                                       | 4245     | 7016      | 20       | 1.2 | PH1041_0060K613_0640 EZ703U | 7500       | —            | 15000      | 382.3 | 391437/1024 | 3100         | 2800      | 4500         | 4.0               | 23                   | —                      | 1210        | 144  |
| 16                                                       | 2497     | 4021      | 15       | 2.0 | PH1041_0060K613_0480 EZ505U | 7500       | —            | 14337      | 286.4 | 119133/416  | 3100         | 2800      | 4500         | 4.0               | 14                   | —                      | 1210        | 142  |
| 16                                                       | 2760     | 9068      | 16       | 1.8 | PH1041_0060K613_0480 EZ802U | 7500       | —            | 14337      | 286.4 | 119133/416  | 3100         | 2800      | 4500         | 4.0               | 60                   | —                      | 1210        | 157  |
| 16                                                       | 3180     | 5257      | 19       | 1.6 | PH1041_0060K613_0480 EZ703U | 7500       | —            | 14337      | 286.4 | 119133/416  | 3100         | 2800      | 4500         | 4.0               | 23                   | —                      | 1210        | 144  |
| 20                                                       | 2005     | 3228      | 14       | 2.5 | PH1041_0060K613_0380 EZ505U | 7500       | —            | 13589      | 229.9 | 470859/2048 | 3100         | 2800      | 4500         | 4.0               | 15                   | —                      | 1210        | 142  |
| 20                                                       | 2216     | 7280      | 15       | 2.3 | PH1041_0060K613_0380 EZ802U | 7500       | —            | 15000      | 229.9 | 470859/2048 | 3100         | 2800      | 4500         | 4.0               | 61                   | —                      | 1210        | 157  |
| 20                                                       | 2553     | 4220      | 18       | 2.0 | PH1041_0060K613_0380 EZ703U | 7500       | —            | 13589      | 229.9 | 470859/2048 | 3100         | 2800      | 4500         | 4.0               | 24                   | —                      | 1210        | 144  |
| 20                                                       | 3460     | 6330      | 24       | 1.4 | PH1041_0060K613_0380 EZ705U | 7500       | —            | 15000      | 229.9 | 470859/2048 | 3100         | 2800      | 4500         | 4.0               | 37                   | —                      | 1210        | 149  |
| 24                                                       | 1666     | 2684      | 13       | 3.0 | PH1041_0060K613_0320 EZ505U | 7500       | —            | 12521      | 191.1 | 391437/2048 | 3100         | 2800      | 4500         | 4.0               | 16                   | —                      | 1210        | 142  |
| 24                                                       | 1842     | 6052      | 14       | 2.7 | PH1041_0060K613_0320 EZ802U | 7500       | —            | 15000      | 191.1 | 391437/2048 | 3100         | 2800      | 4500         | 4.0               | 62                   | —                      | 1210        | 157  |
| 24                                                       | 2122     | 3508      | 17       | 2.4 | PH1041_0060K613_0320 EZ703U | 7500       | —            | 12521      | 191.1 | 391437/2048 | 3100         | 2800      | 4500         | 4.0               | 25                   | —                      | 1210        | 144  |
| 24                                                       | 2877     | 5262      | 22       | 1.7 | PH1041_0060K613_0320 EZ705U | 7500       | —            | 15000      | 191.1 | 391437/2048 | 3100         | 2800      | 4500         | 4.0               | 38                   | —                      | 1210        | 149  |