SEW EURODRIVE

# Revision



## (E)DRN..(IE3) Gearmotors – 60 Hz

DRN.. and EDRN.. Gearmotors in HazLoc-NA®

Edition 01/2017

23110910/EN



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# 1 Revision

## INFORMATION

The documentation at hand contains the following revisions of the "(E)DRN.. Gearmotors (IE3) – 60 Hz" catalog (part number 22742654), chapter 13 "Technical data of the motors":

- Technical data of the 6-pole motors of the DR63 series
- Technical data of the DRN motors, 460 V, 60 Hz, 4-pole, S1

## 1.1 DR63.., DRS71.., 380 V, 60 Hz, 6-pole, S1

### 1.1.1 Information on motors

| Motor | $P_N$ | | $M_N$ | $n_N$ | $I_N$ 380 V | cosφ | $\eta_{50\%}$ | $\eta_{75\%}$ | $\eta_{100\%}$ | $I_A/I_N$ | $M_A/M_N$ $M_H/M_N$ | $M_K/M_N$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | hp | Nm | $min^{-1}$ | A | | % | % | % | | | |
| DR63S6 | 0.09 | 0.12 | 0.77 | 1110 | 0.40 | 0.64 | - | - | - | 2.95 | 2.3<br>2.3 | 2.6 |
| DR63M6 | 0.12 | 0.16 | 1.03 | 1110 | 0.59 | 0.67 | - | - | - | 2.9 | 2.7<br>2.6 | 2.8 |
| DR63L6 | 0.18 | 0.25 | 1.56 | 1100 | 0.82 | 0.65 | - | - | - | 2.9 | 2.5<br>2.5 | 2.6 |
| DRS 71S 6 | 0.18 | 0.25 | 1.56 | 1100 | 0.57 | 0.71 | - | - | 67.9 | 3.2 | 1.7<br>1.7 | 2.0 |
| DRS 71S 6 | 0.25 | 0.33 | 2.15 | 1100 | 0.79 | 0.71 | 64.2 | 68.2 | 67.9 | 2.9 | 1.7<br>1.7 | 2.0 |
| DRS 71M 6 | 0.37 | 0.5 | 3.2 | 1100 | 1.09 | 0.72 | 67.8 | 71.3 | 70.9 | 3.5 | 1.9<br>1.9 | 2.1 |

### 1.1.2 Further information on motors and brakemotors

| Motor | $P_N$ | | $M_N$ | $n_N$ | $m_{Mot}$ | $J_{mot}$ | BR.. BE.. | $Z_0$ BG BGE | $M_B$ | $m_{BMot}$ | $J_{BMot}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | hp | Nm | $min^{-1}$ | kg | $10^{-4}kgm^2$ | | $h^{-1}$ | Nm | kg | $10^{-4}kgm^2$ |
| DR63S6 | 0.09 | 0.12 | 0.77 | 1110 | 6.1 | 5.4 | BR03 | 16000<br>- | 2.5 | 7.6 | 6.6 |
| DR63M6 | 0.12 | 0.16 | 1.03 | 1110 | 6.1 | 5.4 | BR03 | 16000<br>- | 3.2 | 7.6 | 6.6 |
| DR63L6 | 0.18 | 0.25 | 1.56 | 1100 | 6.7 | 6.8 | BR03 | 16000<br>- | 3.2 | 8.2 | 8.0 |
| DRS 71S 6 | 0.18 | 0.25 | 1.56 | 1100 | 7.9 | 8.29 | BE05 | 5600<br>12800 | 5 | 10 | 9.59 |
| DRS 71S 6 | 0.25 | 0.33 | 2.15 | 1100 | 7.9 | 8.29 | BE05 | 5600<br>12800 | 5 | 10 | 9.59 |
| DRS 71M 6 | 0.37 | 0.5 | 3.2 | 1100 | 9 | 11.9 | BE1 | 5280<br>12000 | 10 | 12 | 13.2 |

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## 1.2 DR63.., DRS71.., 440 V, 60 Hz, 6-pole, S1

### 1.2.1 Information on motors

| Motor | $P_N$ | | $M_N$ | $n_N$ | $I_N$ 440 V | cosφ | $\eta_{50\%}$ | $\eta_{75\%}$ | $\eta_{100\%}$ | $I_A/I_N$ | $M_A/M_N$ $M_H/M_N$ | $M_K/M_N$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | hp | Nm | $min^{-1}$ | A | | % | % | % | | | |
| DR63S6 | 0.09 | 0.12 | 0.77 | 1110 | 0.35 | 0.64 | - | - | - | 2.95 | 2.3<br>2.3 | 2.6 |
| DR63M6 | 0.12 | 0.16 | 1.03 | 1110 | 0.51 | 0.67 | - | - | - | 2.9 | 2.7<br>2.6 | 2.8 |
| DR63L6 | 0.18 | 0.25 | 1.56 | 1100 | 0.71 | 0.65 | - | - | - | 2.9 | 2.5<br>2.5 | 2.6 |
| DRS 71S 6 | 0.18 | 0.25 | 1.56 | 1100 | 0.50 | 0.71 | - | - | 67.9 | 3.2 | 1.7<br>1.7 | 2.0 |
| DRS 71S 6 | 0.25 | 0.33 | 2.15 | 1100 | 0.68 | 0.71 | 64.2 | 68.2 | 67.9 | 2.9 | 1.7<br>1.7 | 2.0 |
| DRS 71M 6 | 0.37 | 0.5 | 3.2 | 1100 | 0.94 | 0.72 | 67.8 | 71.3 | 70.9 | 3.5 | 1.9<br>1.9 | 2.1 |

### 1.2.2 Further information on motors and brakemotors

| Motor | $P_N$ | | $M_N$ | $n_N$ | $m_{Mot}$ | $J_{mot}$ | BR.. BE.. | $Z_0$ BG BGE | $M_B$ | $m_{BMot}$ | $J_{BMot}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | hp | Nm | $min^{-1}$ | kg | $10^{-4}kgm^2$ | | $h^{-1}$ | Nm | kg | $10^{-4}kgm^2$ |
| DR63S6 | 0.09 | 0.12 | 0.77 | 1110 | 6.1 | 5.4 | BR03 | 16000<br>- | 2.5 | 7.6 | 6.6 |
| DR63M6 | 0.12 | 0.16 | 1.03 | 1110 | 6.1 | 5.4 | BR03 | 16000<br>- | 3.2 | 7.6 | 6.6 |
| DR63L6 | 0.18 | 0.25 | 1.56 | 1100 | 6.7 | 6.8 | BR03 | 16000<br>- | 3.2 | 8.2 | 8.0 |
| DRS 71S 6 | 0.18 | 0.25 | 1.56 | 1100 | 7.9 | 8.29 | BE05 | 5600<br>12800 | 5 | 10 | 9.59 |
| DRS 71S 6 | 0.25 | 0.33 | 2.15 | 1100 | 7.9 | 8.29 | BE05 | 5600<br>12800 | 5 | 10 | 9.59 |
| DRS 71M 6 | 0.37 | 0.5 | 3.2 | 1100 | 9 | 11.9 | BE1 | 5280<br>12000 | 10 | 12 | 13.2 |

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## 1.3 DR63.., DRS71.., 460 V, 60 Hz, 6-pole, S1

### 1.3.1 Information on motors

| Motor | $P_N$ | | $M_N$ | $n_N$ | $I_N$ 460 V | cosφ | $\eta_{50\%}$ | $\eta_{75\%}$ | $\eta_{100\%}$ | $I_A/I_N$ | $M_A/M_N$ $M_H/M_N$ | $M_K/M_N$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | hp | Nm | $min^{-1}$ | A | | % | % | % | | | |
| DR63S6 | 0.09 | 0.12 | 0.77 | 1110 | 0.33 | 0.64 | - | - | - | 2.95 | 2.3<br>2.3 | 2.6 |
| DR63M6 | 0.12 | 0.16 | 1.03 | 1110 | 0.49 | 0.67 | - | - | - | 2.9 | 2.7<br>2.6 | 2.8 |
| DR63L6 | 0.18 | 0.25 | 1.56 | 1100 | 0.68 | 0.65 | - | - | - | 2.9 | 2.5<br>2.5 | 2.6 |
| DRS 71S 6 | 0.18 | 0.25 | 1.56 | 1100 | 0.48 | 0.71 | - | - | 67.9 | 3.2 | 1.7<br>1.7 | 2.0 |
| DRS 71S 6 | 0.25 | 0.33 | 2.15 | 1100 | 0.65 | 0.71 | 64.2 | 68.2 | 67.9 | 2.9 | 1.7<br>1.7 | 2.0 |
| DRS 71M 6 | 0.37 | 0.5 | 3.2 | 1100 | 0.9 | 0.72 | 67.8 | 71.3 | 70.0 | 3.5 | 1.9<br>1.9 | 2.1 |

### 1.3.2 Further information on motors and brakemotors

| Motor | $P_N$ | | $M_N$ | $n_N$ | $m_{Mot}$ | $J_{mot}$ | BR.. BE.. | $Z_0$ BG BGE | $M_B$ | $m_{BMot}$ | $J_{BMot}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | hp | Nm | $min^{-1}$ | kg | $10^{-4}kgm^2$ | | $h^{-1}$ | Nm | kg | $10^{-4}kgm^2$ |
| DR63S6 | 0.09 | 0.12 | 0.77 | 1110 | 6.1 | 5.4 | BR03 | 16000<br>- | 2.5 | 7.6 | 6.6 |
| DR63M6 | 0.12 | 0.16 | 1.03 | 1110 | 6.1 | 5.4 | BR03 | 16000<br>- | 3.2 | 7.6 | 6.6 |
| DR63L6 | 0.18 | 0.25 | 1.56 | 1100 | 6.7 | 6.8 | BR03 | 16000<br>- | 3.2 | 8.2 | 8.0 |
| DRS 71S 6 | 0.18 | 0.25 | 1.56 | 1100 | 7.9 | 8.29 | BE05 | 5600<br>12800 | 5 | 10 | 9.59 |
| DRS 71S 6 | 0.25 | 0.33 | 2.15 | 1100 | 7.9 | 8.29 | BE05 | 5600<br>12800 | 5 | 10 | 9.59 |
| DRS 71M 6 | 0.37 | 0.5 | 3.2 | 1100 | 9 | 11.9 | BE1 | 5280<br>12000 | 10 | 12 | 13.2 |

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## 1.4 DR63.., DRS71.., 575 V, 60 Hz, 6-pole, S1

### 1.4.1 Information on motors

| Motor | $P_N$ | | $M_N$ | $n_N$ | $I_N$ 575 V | cosφ | $\eta_{50\%}$ | $\eta_{75\%}$ | $\eta_{100\%}$ | $I_A/I_N$ | $M_A/M_N$<br>$M_H/M_N$ | $M_K/M_N$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | hp | Nm | $min^{-1}$ | A | | % | % | % | | | |
| DR63M6 | 0.12 | 0.16 | 1.03 | 1110 | 0.39 | 0.67 | - | - | - | 2.9 | 2.7<br>2.6 | 2.8 |
| DR63L6 | 0.18 | 0.25 | 1.56 | 1100 | 0.54 | 0.65 | - | - | - | 2.9 | 2.5<br>2.5 | 2.6 |
| DRS 71S 6 | 0.18 | 0.25 | 1.56 | 1100 | 0.38 | 0.71 | - | - | 67.9 | 3.2 | 1.7<br>1.7 | 2.0 |
| DRS 71S 6 | 0.25 | 0.33 | 2.15 | 1100 | 0.52 | 0.71 | 64.2 | 68.2 | 67.9 | 2.9 | 1.7<br>1.7 | 2.0 |
| DRS 71M 6 | 0.37 | 0.5 | 3.2 | 1100 | 0.72 | 0.72 | 67.8 | 71.3 | 70.0 | 3.5 | 1.9<br>1.9 | 2.1 |

### 1.4.2 Further information on motors and brakemotors

| Motor | $P_N$ | | $M_N$ | $n_N$ | $m_{Mot}$ | $J_{mot}$ | BR..<br>BE.. | $Z_0$<br>BG<br>BGE | $M_B$ | $m_{BMot}$ | $J_{BMot}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | hp | Nm | $min^{-1}$ | kg | $10^{-4}kgm^2$ | | $h^{-1}$ | Nm | kg | $10^{-4}kgm^2$ |
| DR63M6 | 0.12 | 0.16 | 1.03 | 1110 | 6.1 | 5.4 | BR03 | 16000<br>- | 3.2 | 7.6 | 6.6 |
| DR63L6 | 0.18 | 0.25 | 1.56 | 1100 | 6.7 | 6.8 | BR03 | 16000<br>- | 3.2 | 8.2 | 8.0 |
| DRS 71S 6 | 0.18 | 0.25 | 1.56 | 1100 | 7.9 | 8.29 | BE05 | 5600<br>12800 | 5 | 10 | 9.59 |
| DRS 71S 6 | 0.25 | 0.33 | 2.15 | 1100 | 7.9 | 8.29 | BE05 | 5600<br>12800 | 5 | 10 | 9.59 |
| DRS 71M 6 | 0.37 | 0.5 | 3.2 | 1100 | 9 | 11.9 | BE1 | 5280<br>12000 | 10 | 12 | 13.2 |

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## 1.5 DRN.., 460 V, 60 Hz, 4-pole, S1

### 1.5.1 Information on motors

Information on motors

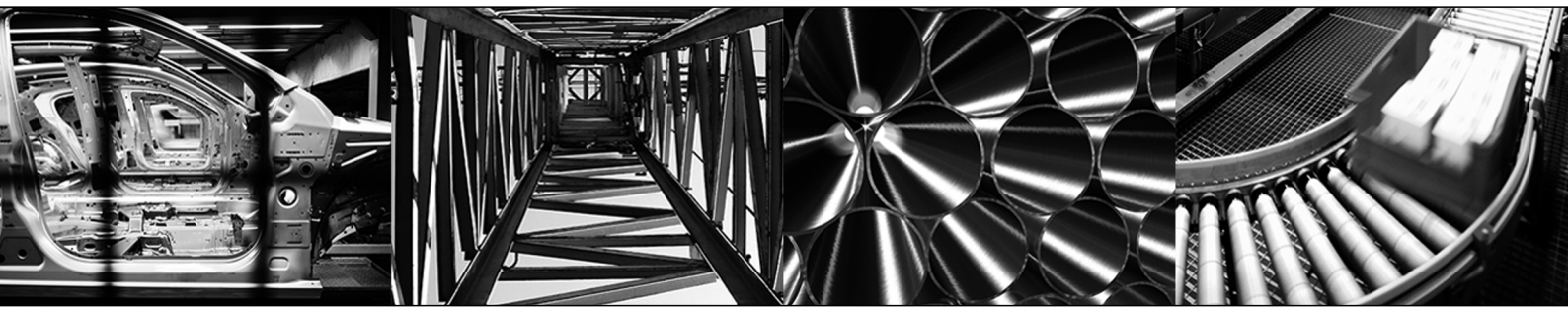
| DRN.. motor type | $P_N$ | | $M_N$ | $n_N$ | $I_N$ 460 V | cosφ | $\eta_{50\%}$ | $\eta_{75\%}$ | $\eta_{100\%}$ | $I_A/I_N$ | $M_A/M_N$ $M_H/M_N$ | $M_K/M_N$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | hp | Nm | $min^{-1}$ | A | | % | % | % | | | |
| DRN 80M 4 | 0.75 | 1.0 | 4.1 | 1751 | 1.56 | 0.70 | 82.0 | 84.9 | 85.5 | 8.1 | 3.7<br>3.0 | 4.2 |
| DRN 90S 4 | 1.1 | 1.5 | 6 | 1762 | 2.3 | 0.69 | 83.5 | 86.1 | 86.5 | 8.2 | 3.3<br>2.3 | 4.0 |
| DRN 90L 4 | 1.5 | 2 | 8.1 | 1767 | 3 | 0.70 | 83.8 | 86.1 | 86.5 | 9.1 | 3.3<br>1.9 | 4.0 |
| DRN 100L 4 | 2.2 | 3 | 11.9 | 1765 | 4.15 | 0.74 | 87.5 | 89.2 | 89.5 | 9.4 | 3.7<br>2.2 | 4.2 |
| DRN 100L 4 | 3 | 4 | 16.2 | 1763 | 5.8 | 0.73 | 87.6 | 89.3 | 89.5 | 9.2 | 3.9<br>2.3 | 4.4 |
| DRN 100L 4 | 3.7 | 5 | 20 | 1758 | 7.2 | 0.72 | 87.8 | 89.4 | 89.5 | 9.1 | 4.1<br>2.0 | 4.4 |
| DRN 112M 4 | 4 | 5.4 | 21.5 | 1769 | 7.1 | 0.79 | 88.5 | 89.6 | 89.5 | 9.8 | 2.8<br>1.4 | 4.0 |
| DRN 132S 4 | 5.5 | 7.5 | 29.5 | 1768 | 9.2 | 0.82 | 90.9 | 91.8 | 91.7 | 9.8 | 3.5<br>2.8 | 4.3 |
| DRN 132M 4 | 7.5 | 10 | 40.5 | 1774 | 13.3 | 0.77 | 91.1 | 91.9 | 91.7 | 8.5 | 3.7<br>2.6 | 3.7 |
| DRN 132L 4 | 9.2 | 12.3 | 49.5 | 1775 | 16.5 | 0.76 | 91.0 | 91.9 | 91.7 | 8.4 | 4.3<br>1.7 | 4.1 |
| DRN 160M 4 | 11 | 15 | 59 | 1776 | 18.5 | 0.80 | 91.2 | 92.3 | 92.4 | 7.0 | 2.6<br>2.1 | 3.1 |
| DRN 160L 4 | 15 | 20 | 81 | 1777 | 25 | 0.80 | 92.3 | 93.3 | 93.0 | 9.0 | 3.4<br>2.1 | 3.8 |
| DRN 180M 4 | 18.5 | 25 | 99 | 1781 | 29.5 | 0.84 | 92.7 | 93.6 | 93.6 | 9.5 | 4.1<br>3.4 | 4.0 |
| DRN 180L 4 | 22 | 30 | 118 | 1781 | 34 | 0.86 | 93.2 | 93.8 | 93.6 | 9.8 | 4.2<br>2.7 | 3.9 |
| DRN 200L 4 | 30 | 40 | 161 | 1783 | 48.5 | 0.82 | 93.0 | 94.0 | 94.1 | 8.5 | 3.5<br>2.5 | 3.3 |
| DRN 225S 4 | 37 | 50 | 198 | 1785 | 56 | 0.88 | 94.2 | 94.7 | 94.5 | 9.2 | 3.4<br>2.6 | 3.0 |
| DRN 225M 4 | 45 | 60 | 240 | 1785 | 70 | 0.85 | 94.5 | 95.1 | 95.0 | 8.9 | 3.6<br>2.2 | 2.7 |
| DRN 250ME 4 | 55 | 75 | 295 | 1785 | 88 | 0.82 | 94.3 | 95.2 | 95.4 | 8.6 | 4.6<br>2.4 | 2.7 |
| DRN 280S 4 | 75 | 100 | 400 | 1785 | 125 | 0.79 | 94.6 | 95.3 | 95.4 | 9.1 | 4.8<br>2.7 | 3.1 |
| DRN 280M 4 | 90 | 125 | 480 | 1784 | 141 | 0.83 | 94.8 | 95.4 | 95.4 | 8.0 | 4.8<br>2.5 | 2.9 |
| DRN 315S 4 | 110 | 150 | 590 | 1790 | 165 | 0.87 | 95.0 | 95.7 | 95.8 | 7.6 | 3.3<br>2.5 | 3.5 |
| DRN 315ME 4 | 132 | 177 | 700 | 1791 | 200 | 0.86 | 95.4 | 96.0 | 96.2 | 8.3 | 3.8<br>3.1 | 4.3 |
| DRN 315L 4 | 150 | 200 | 800 | 1788 | 225 | 0.87 | 95.5 | 96.1 | 96.2 | 7.8 | 3.4<br>2.7 | 3.8 |
| DRN 315L 4 | 160 | 210 | 850 | 1788 | 235 | 0.88 | 95.6 | 96.2 | 96.2 | 7.4 | 3.2<br>2.6 | 3.6 |
| DRN 315H 4 | 185 | 250 | 990 | 1792 | 290 | 0.83 | 94.8 | 95.9 | 96.2 | 8.6 | 4.6<br>3.4 | 4.6 |

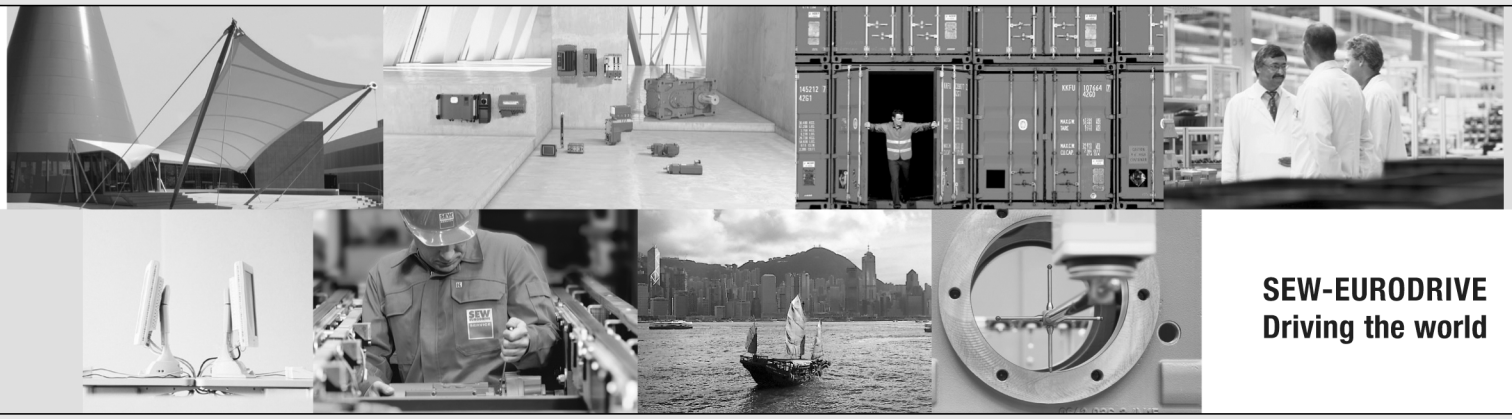
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### 1.5.2 Further information on motors and brakemotors

| Motor | $P_N$ | | $M_N$ | $n_N$ | $m_{Mot}$ | $J_{Mot}$ | BE.. | $Z_0$ BG BGE | $M_B$ | $m_{BMot}$ | $J_{BMot}$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | kW | hp | Nm | $min^{-1}$ | kg | $10^{-4}$ kgm² | | $h^{-1}$ | Nm | kg | $10^{-4}$ kgm² |
| DRN 80M 4 | 0.75 | 1.0 | 4.1 | 1751 | 14 | 24.7 | BE1 | 2600<br>6600 | 10 | 18 | 26.2 |
| DRN 90S 4 | 1.1 | 1.5 | 6 | 1762 | 20 | 54 | BE2 | 1800<br>4800 | 14 | 24 | 58.7 |
| DRN 90L 4 | 1.5 | 2 | 8.1 | 1767 | 23 | 67.2 | BE2 | 1800<br>4700 | 20 | 27 | 71.9 |
| DRN 100L 4 | 2.2 | 3 | 11.9 | 1765 | 34 | 112 | BE5 | 1400<br>3700 | 28 | 40 | 118 |
| DRN 100L 4 | 3 | 4 | 16.2 | 1763 | 34 | 112 | BE5 | -<br>2900 | 40 | 40 | 118 |
| DRN 100L 4 | 3.7 | 5 | 20 | 1758 | 34 | 112 | BE5 | -<br>2900 | 40 | 40 | 118 |
| DRN 112M 4 | 4 | 5.4 | 21.5 | 1769 | 45 | 178 | BE5 | -<br>2300 | 55 | 52 | 183 |
| DRN 132S 4 | 5.5 | 7.5 | 29.5 | 1768 | 56 | 241 | BE11 | -<br>1700 | 80 | 71 | 251 |
| DRN 132M 4 | 7.5 | 10 | 40.5 | 1774 | 73 | 381 | BE11 | -<br>900 | 110 | 91 | 403 |
| DRN 132L 4 | 9.2 | 12.3 | 49.5 | 1775 | 81 | 439 | BE11 | -<br>780 | 110 | 100 | 461 |
| DRN 160M 4 | 11 | 15 | 59 | 1776 | 115 | 817 | BE20 | -<br>720 | 150 | 145 | 877 |
| DRN 160L 4 | 15 | 20 | 81 | 1777 | 130 | 1040 | BE20 | -<br>640 | 200 | 165 | 1100 |
| DRN 180M 4 | 18.5 | 25 | 99 | 1781 | 155 | 1630 | BE20 | -<br>400 | 200 | 190 | 1690 |
| DRN 180L 4 | 22 | 30 | 118 | 1781 | 170 | 1950 | BE30 | -<br>380 | 300 | 210 | 2090 |
| DRN 200L 4 | 30 | 40 | 161 | 1783 | 280 | 2660 | BE32 | -<br>400 | 400 | 335 | 2890 |
| DRN 225S 4 | 37 | 50 | 198 | 1785 | 310 | 4350 | BE32 | -<br>180 | 400 | 365 | 4580 |
| DRN 225M 4 | 45 | 60 | 240 | 1785 | 310 | 4350 | BE32 | -<br>160 | 500 | 365 | 4580 |
| DRN 250ME 4 | 55 | 75 | 295 | 1785 | 510 | 8940 | BE60 | -<br>120 | 600 | 590 | 9280 |
| DRN 280S 4 | 75 | 100 | 400 | 1785 | 520 | 8940 | BE62 | -<br>120 | 1000 | 600 | 9530 |
| DRN 280M 4 | 90 | 125 | 480 | 1784 | 630 | 12000 | BE62 | -<br>63 | 1000 | 720 | 12600 |
| DRN 315S 4 | 110 | 150 | 590 | 1788 | 870 | 23400 | BE122 | -<br>42 | 1200 | 1000 | 24400 |
| DRN 315ME 4 | 132 | 177 | 700 | 1790 | 990 | 28300 | BE122 | -<br>33 | 1600 | 1130 | 29400 |
| DRN 315L 4 | 150 | 200 | 800 | 1788 | 1020 | 28600 | BE122 | -<br>27 | 2000 | 1150 | 29600 |
| DRN 315L 4 | 160 | 210 | 860 | 1787 | 1020 | 28600 | BE122 | -<br>27 | 2000 | 1150 | 29600 |
| DRN 315H 4 | 185 | 250 | 990 | 1791 | 1140 | 35200 | BE122 | -<br>18 | 2000 | 1270 | 36200 |

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