

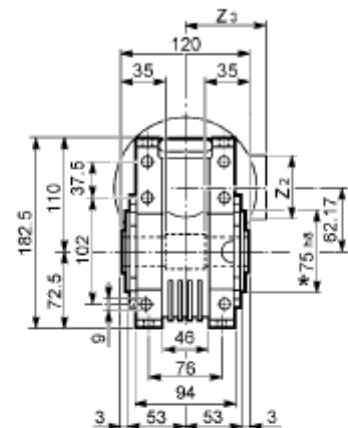
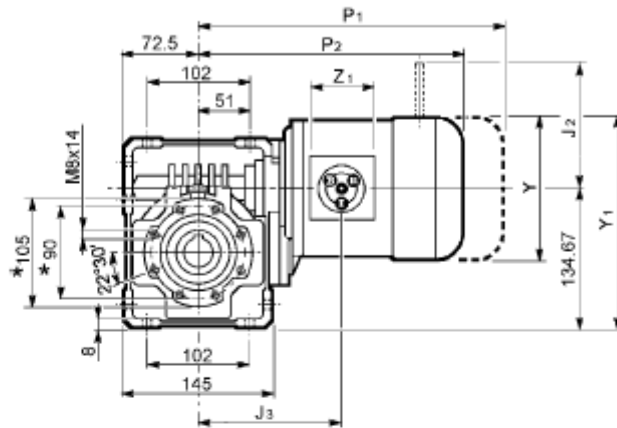
Motoriduttore integrato

Compact gearmotor

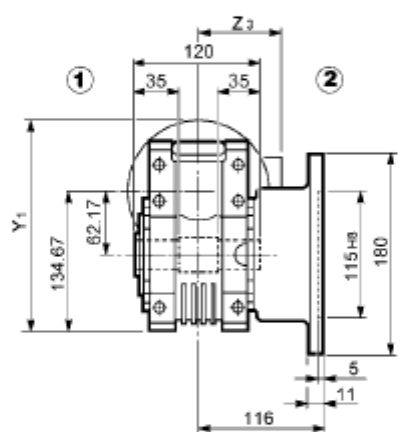
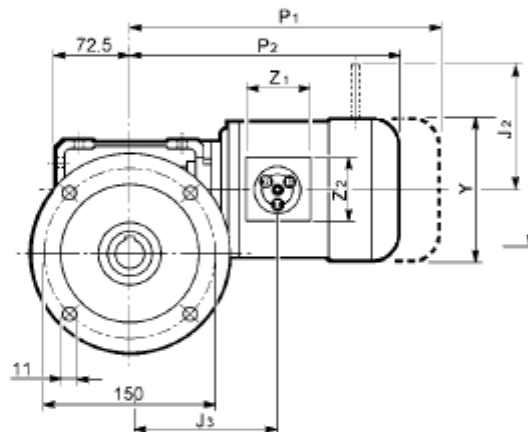
Kompaktes Getriebemotor

Motoréducteur compact

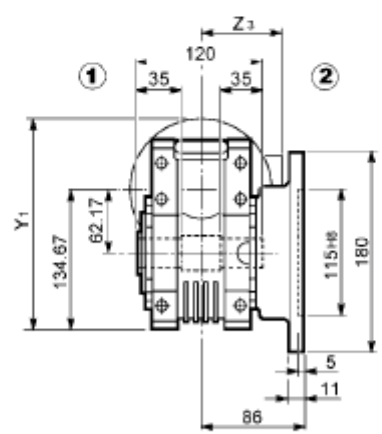
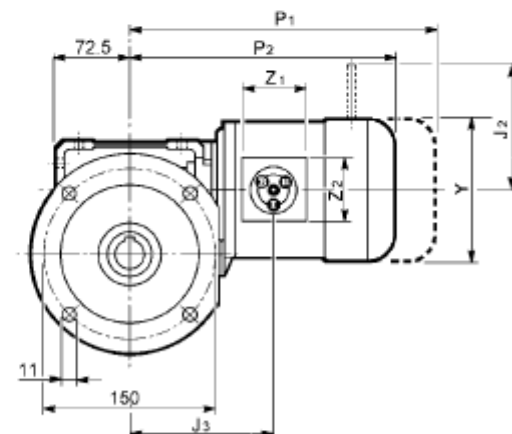
W 63 U...S



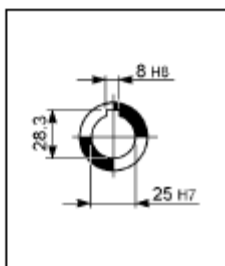
W 63 UF...S



W 63 UFC...S



OUTPUT



| | W 63 | | | | | | | | | | | | | | |
|--------------|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|------|-----------------|----------------|----------------|---------------------|----------------|----------------|------|
| | Tuts / All Alle / Tous | | M ₋ | | | | | | M _{FD} | | | M _{FA} (*) | | | |
| | Y | Y ₁ | J ₃ | P ₂ | Z ₁ | Z ₂ | Z ₃ | Kg | J ₂ | J ₃ | P ₁ | Z ₁ | Z ₂ | Z ₃ | Kg |
| W 63_S1 M1SC | 138 | 204 | 141 | 265 | 80 | 74 | 108 | 10.5 | 103 | 180 | 328 | 133 80° | 98 74° | 132 108* | 12.7 |
| W 63_S1 M1SD | 138 | 204 | 141 | 265 | 80 | 74 | 108 | 11.0 | 103 | 180 | 328 | | | | 13.2 |
| W 63_S1 M1LA | 138 | 204 | 141 | 289 | 80 | 74 | 108 | 12.5 | 103 | 200 | 350 | | | | 14.7 |
| W 63_S2 M2SA | 156 | 213 | 165 | 317 | 80 | 74 | 119 | 15.3 | 129 | 209 | 393 | 143 119* | 18.4 20.4 | | |
| W 63_S2 M2SB | 156 | 213 | 165 | 317 | 80 | 74 | 119 | 17.3 | 129 | 209 | 393 | | | | |

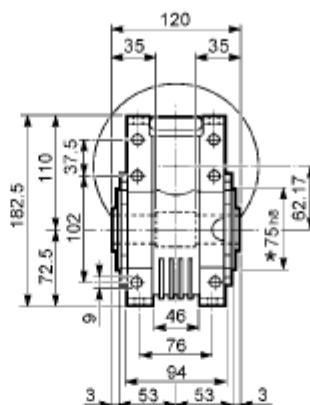
Predisposto IEC

IEC motor interface

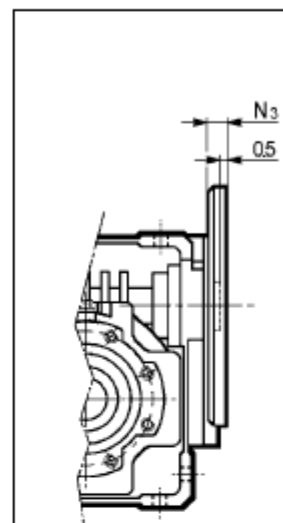
IEC vorbereitet

Prédisposé CEI

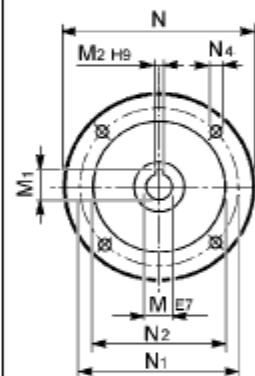
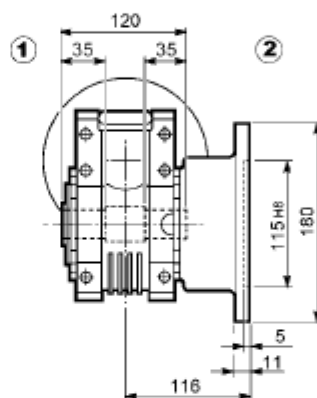
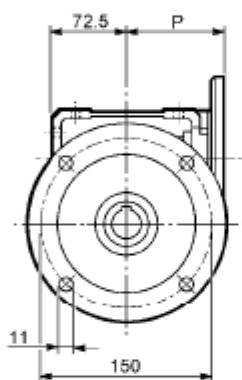
W 63 U...P



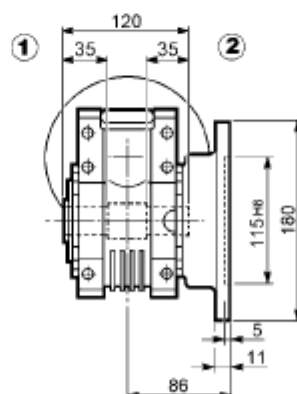
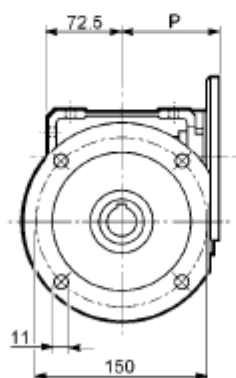
INPUT



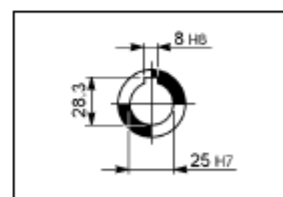
W 63 UF...P





W 63 UFC...P



OUTPUT



|  IEC | W 63 | | | | | | | | | |
|---|-------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|-----|---|
| | M | M ₁ | M ₂ | N | N ₁ | N ₂ | N ₃ | N ₄ | P |  |
| W 63_P 71 B5 | 14 | 16.3 | 5 | 160 | 130 | 110 | 11 | 9 | 95 | 6.3 |
| W 63_P 80 B5 | 19 | 21.8 | 6 | 200 | 165 | 130 | 12 | 11.5 | 102 | 6.5 |
| W 63_P 90 B5 | 24 | 27.3 | 8 | 200 | 165 | 130 | 12 | 11.5 | 102 | 6.4 |
| W 63_P 71 B14 | 14 | 16.3 | 5 | 105 | 85 | 70 | 11 | 6.5 | 95 | 6.1 |
| W 63_P 80 B14 | 19 | 21.8 | 6 | 120 | 100 | 80 | 11 | 6.5 | 102 | 6.3 |
| W 63_P 90 B14 | 24 | 27.3 | 8 | 140 | 115 | 95 | 11 | 8.5 | 102 | 6.3 |

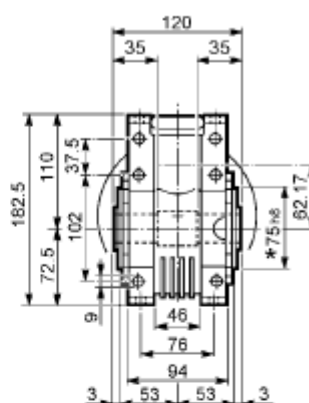
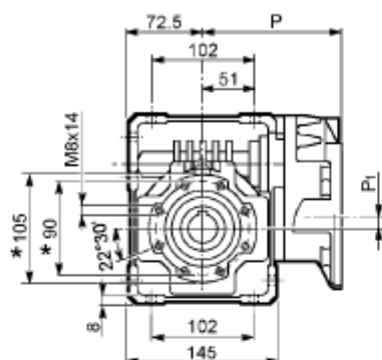
Predisposto IEC

IEC motor interface

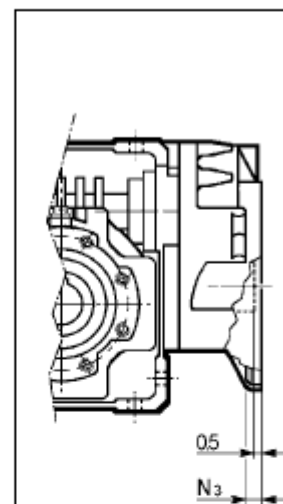
IEC vorbereitet

Prédisposé CEI

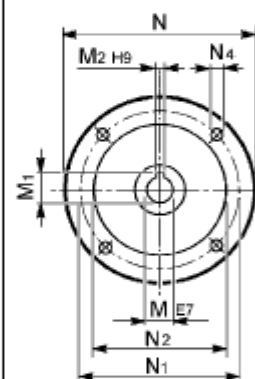
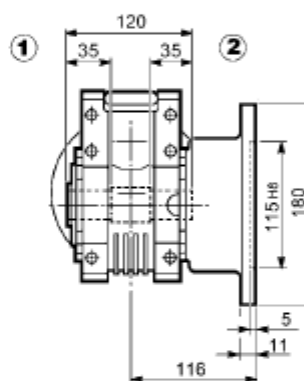
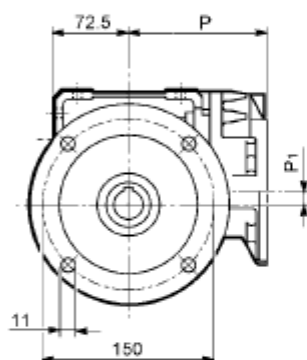
WR 63 U...P



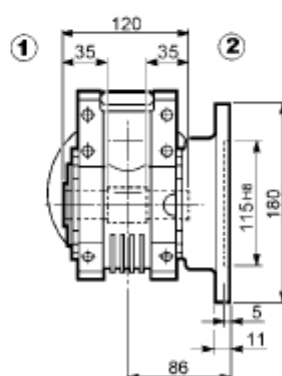
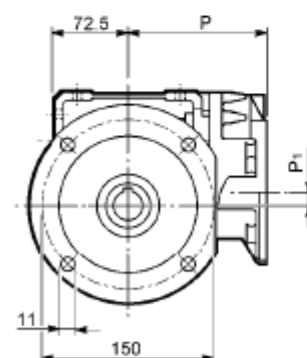
INPUT



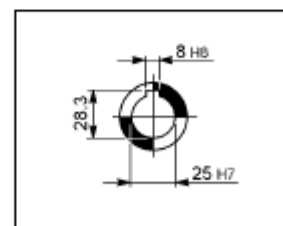
WR 63 UF...P



WR 63 UFC...P

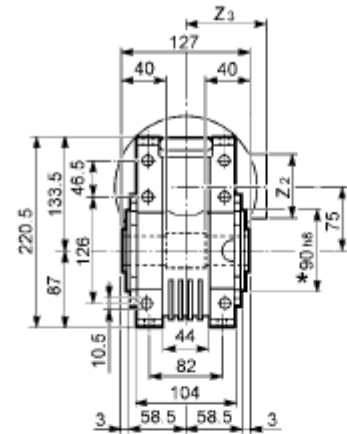
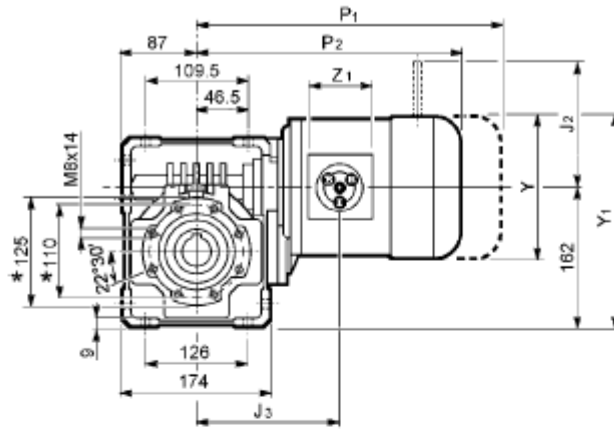


OUTPUT

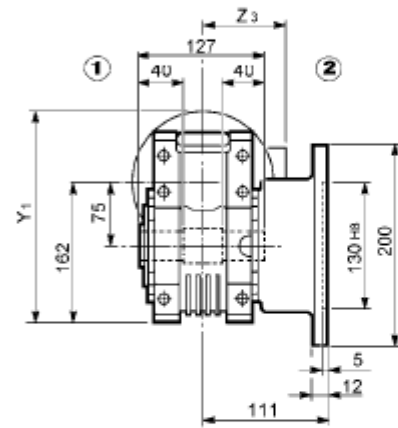
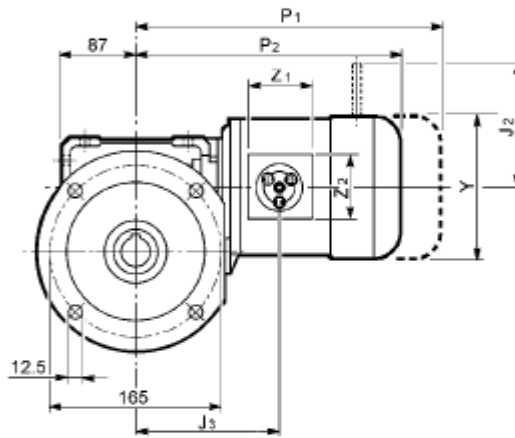


| IEC | WR 63 | | | | | | | | | | |
|---------------|--------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|-------|----------------|-----|
| | M | M ₁ | M ₂ | N | N ₁ | N ₂ | N ₃ | N ₄ | P | P ₁ | |
| WR 63_P 63 B5 | 11 | 12.8 | 4 | 140 | 115 | 95 | 10 | M8x10 | 133.5 | 11.42 | 7.1 |
| WR 63_P 71 B5 | 14 | 16.3 | 5 | 160 | 130 | 110 | 10 | M8x10 | 133.5 | 11.42 | 7.1 |

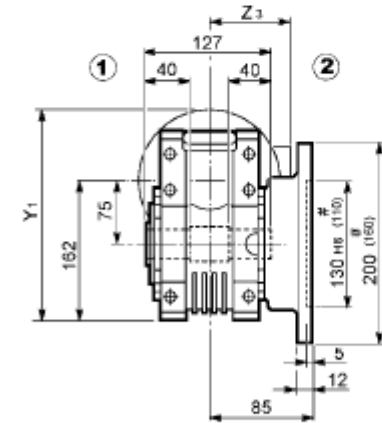
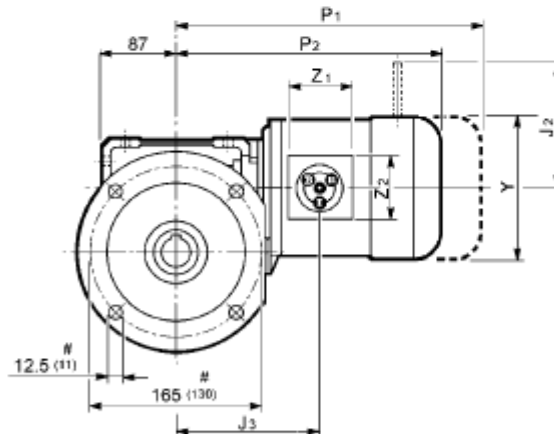
W 75 U...S



W 75 UF...S

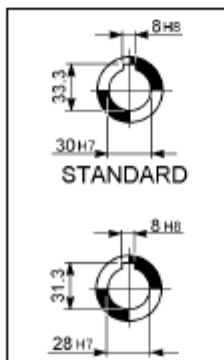


W 75 UFC...S



W 75 UFCR#...S

OUTPUT



| | W 75 | | | | | | | | | | | | | | | |
|--------------|---------------------|----------------|----------------|----------------|----------------|----------------|----------------|------|----------------|----------------|----------------|----------------|----------------|----------------|------|--|
| | Tutti / Alle / Tous | | M | | | | | | M_FD | | | | M_FA(*) | | | |
| | Y | Y ₁ | J ₃ | P ₂ | Z ₁ | Z ₂ | Z ₃ | KG | J ₂ | J ₃ | P ₁ | Z ₁ | Z ₂ | Z ₃ | KG | |
| W 75_S1 M1SC | 138 | 231 | 160 | 284 | 80 | 74 | 108 | 14.0 | 103 | 199 | 347 | 133 80* | 98 74* | 132 108* | 16.2 | |
| W 75_S1 M1SD | 138 | 231 | 160 | 284 | 80 | 74 | 108 | 14.5 | 103 | 199 | 347 | | | | 16.7 | |
| W 75_S1 M1LA | 138 | 231 | 160 | 308 | 80 | 74 | 108 | 16.0 | 103 | 219 | 369 | | | | 18.2 | |
| W 75_S2 M2SA | 156 | 240 | 181 | 333 | 80 | 74 | 119 | 18.5 | 129 | 225 | 409 | 143 119* | 21.6 23.6 | | | |
| W 75_S2 M2SB | 156 | 240 | 181 | 333 | 80 | 74 | 119 | 20.5 | 129 | 225 | 409 | | | | | |
| W 75_S3 M3SA | 193 | 258.5 | 199.5 | 376 | 98 | 98 | 142 | 25.6 | 160 | 270.5 | 472 | 165 98* | 110 98* | 155 142* | 31 | |
| W 75_S3 M3LA | 193 | 258.5 | 199.5 | 408 | 98 | 98 | 142 | 28.6 | 160 | 270.5 | 499 | | | | 34 | |
| W 75_S3 M3LB | 193 | 258.5 | 199.5 | 408 | 98 | 98 | 142 | 30.6 | 160 | 270.5 | 499 | | | | 36 | |
| W 75_S3 M3LC | 193 | 258.5 | 199.5 | 408 | 98 | 98 | 142 | 32.6 | 160 | 270.5 | 499 | | | | 38 | |

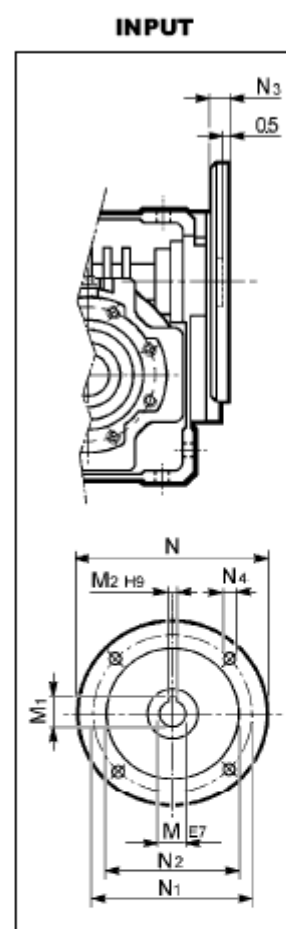
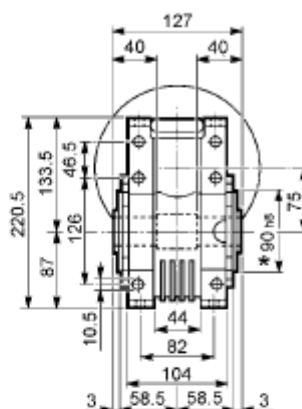
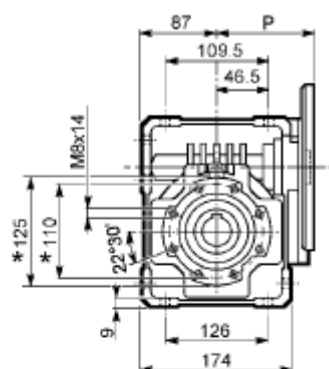
Predisposto IEC

IEC motor interface

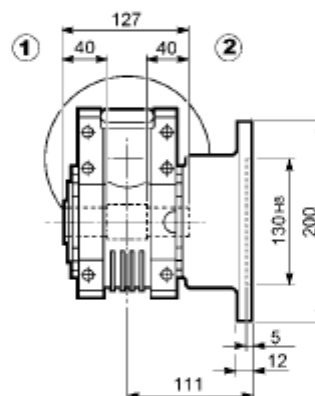
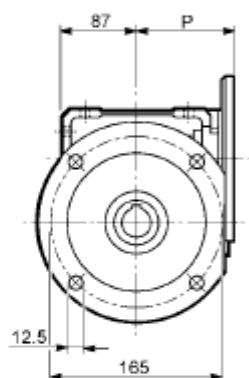
IEC vorbereitet

Prédisposé CEI

W 75 U...P

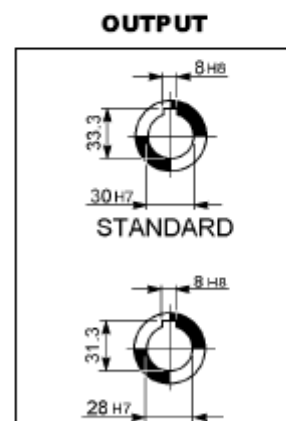
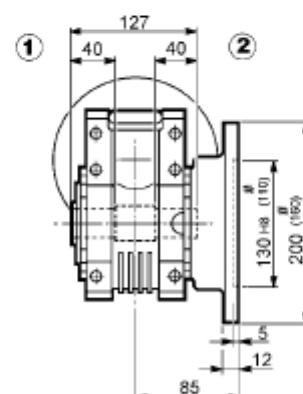
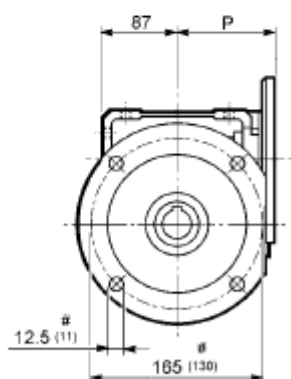



W 75 UF...P



W 75 UFC...P

W 75 UFCR#...P



| IEC | W 75 | | | | | | | | | |
|----------------|------|----------------|----------------|-----|----------------|----------------|----------------|----------------|-----|---|
| | M | M ₁ | M ₂ | N | N ₁ | N ₂ | N ₃ | N ₄ | P |  |
| W 75_P 71 B5 | 14 | 16.3 | 5 | 160 | 130 | 110 | 11 | 9 | 112 | 9.5 |
| W 75_P 80 B5 | 19 | 21.8 | 6 | 200 | 165 | 130 | 12 | 11.5 | 112 | 9.7 |
| W 75_P 90 B5 | 24 | 27.3 | 8 | 200 | 165 | 130 | 12 | 11.5 | 112 | 9.6 |
| W 75_P 100 B5 | 28 | 31.3 | 8 | 250 | 215 | 180 | 13 | 12.5 | 120 | 9.7 |
| W 75_P 112 B5 | 28 | 31.3 | 8 | 250 | 215 | 180 | 13 | 12.5 | 120 | 9.7 |
| W 75_P 80 B14 | 19 | 21.8 | 6 | 120 | 100 | 80 | 7.5 | 6.5 | 112 | 9.4 |
| W 75_P 90 B14 | 24 | 27.3 | 8 | 140 | 115 | 95 | 7.5 | 8.5 | 112 | 9.4 |
| W 75_P 100 B14 | 28 | 31.3 | 8 | 160 | 130 | 110 | 10 | 8.5 | 120 | 9.5 |
| W 75_P 112 B14 | 28 | 31.3 | 8 | 160 | 130 | 110 | 10 | 8.5 | 120 | 9.5 |

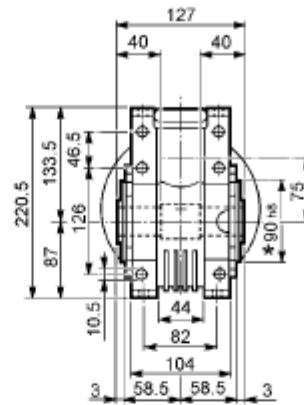
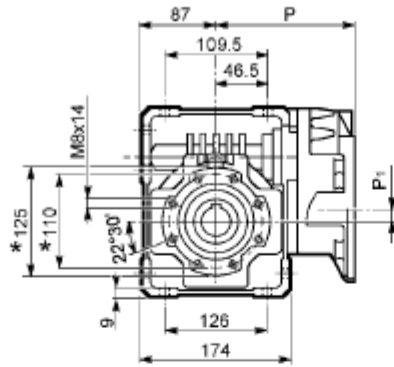
Predisposto IEC

IEC motor interface

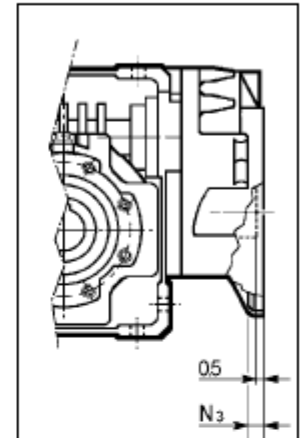
IEC vorbereitet

Prédisposé CEI

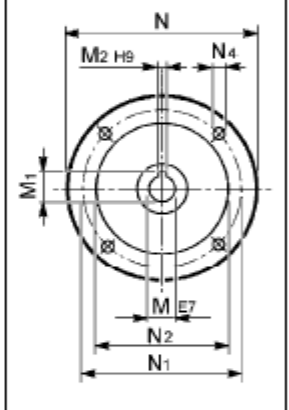
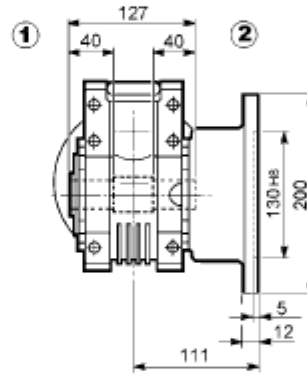
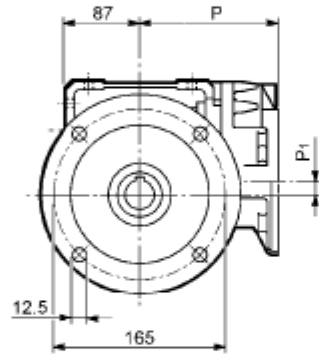
WR 75 U...P



INPUT

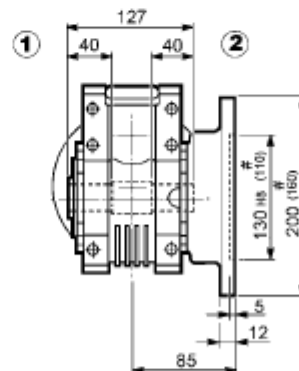
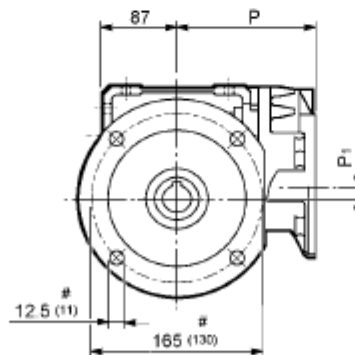


WR 75 UF...P

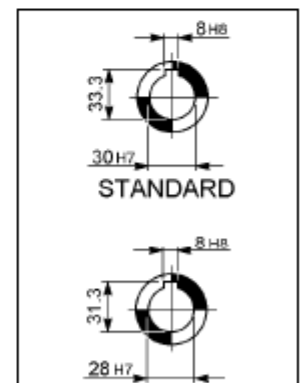


WR 75 UFC...P

WR 75 UFCR#...P



OUTPUT



| IEC | WR 75 | | | | | | | | | | |
|---------------|-------|----------------|----------------|-----|----------------|----------------|----------------|----------------|-------|----------------|------|
| | M | M ₁ | M ₂ | N | N ₁ | N ₂ | N ₃ | N ₄ | P | P ₁ | kg |
| WR 75_P 63 B5 | 11 | 12.8 | 4 | 140 | 115 | 95 | 10 | M8x10 | 152 | 23.53 | 10.6 |
| WR 75_P 71 B5 | 14 | 16.3 | 5 | 160 | 130 | 110 | 10 | M8x10 | 152 | 23.53 | 10.7 |
| WR 75_P 80 B5 | 19 | 21.8 | 6 | 200 | 165 | 130 | 12 | M10x13 | 163.5 | 11 | 11.5 |
| WR 75_P 90 B5 | 24 | 27.3 | 8 | 200 | 165 | 130 | 12 | M10x13 | 163.5 | 11 | 11.6 |

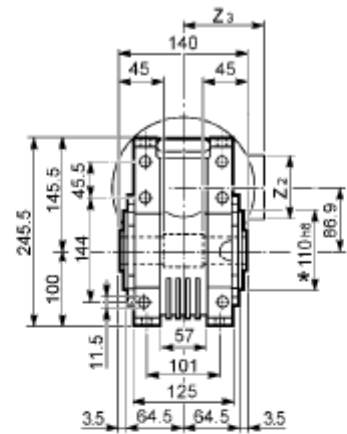
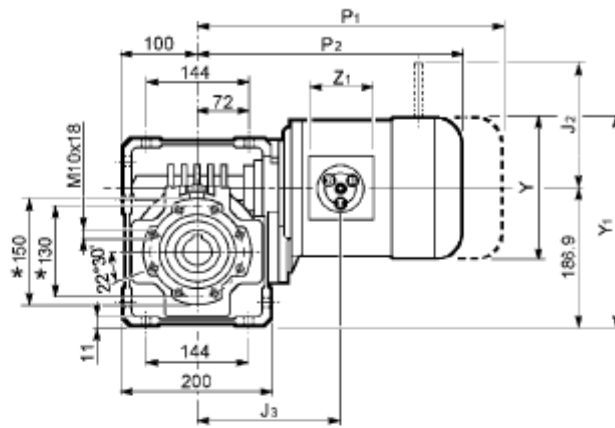
Motoriduttore integrato

Compact gearmotor

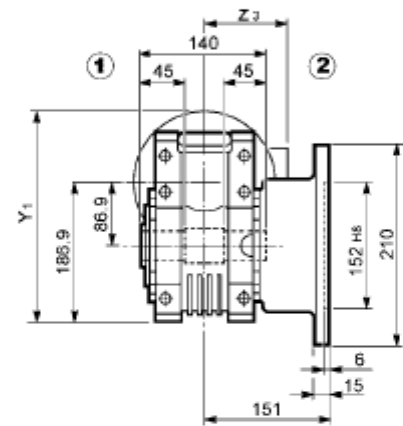
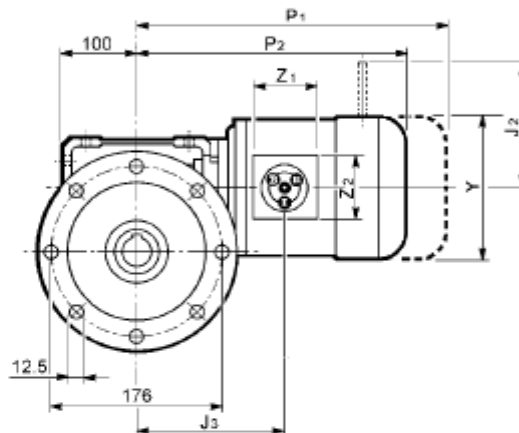
Kompaktes Getriebemotor

Motoréducteur compact

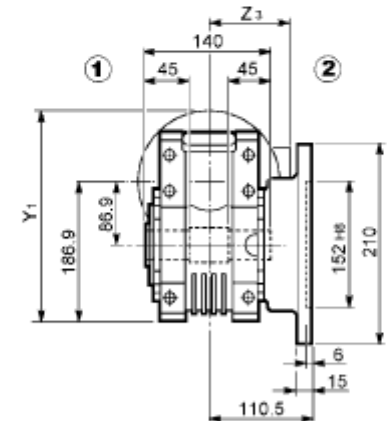
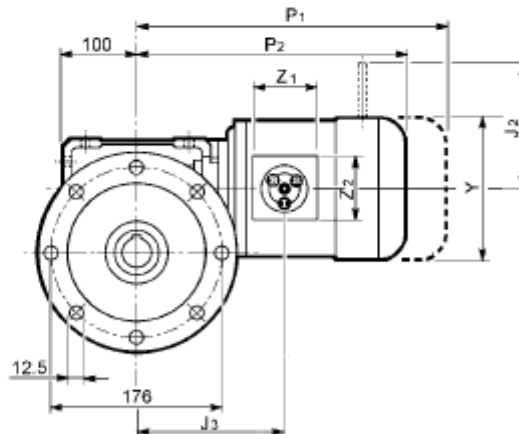
W 86 U...S



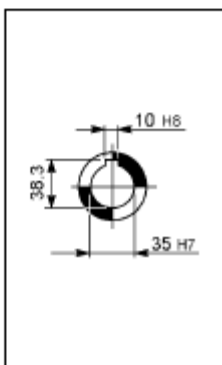
W 86 UF...S



W 86 UFC...S



OUTPUT



| | W 86 | | | | | | | | | | | | | | | |
|--------------|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|--------|----------------|----------------|----------------|----------------|----------------|----------------|--------|--|
| | Tutti / All Alle / Tous | | M_ | | | | | | M_FD | | | | M_FA(*) | | | |
| | Y | Y ₁ | J ₃ | P ₂ | Z ₁ | Z ₂ | Z ₃ | ρ | J ₂ | J ₃ | P ₁ | Z ₁ | Z ₂ | Z ₃ | ρ | |
| W 86_S1 M1SC | 138 | 256 | 176 | 300 | 80 | 74 | 108 | 18.1 | 103 | 215 | 363 | 133 80* | 98 74* | 132 108* | 20.3 | |
| W 86_S1 M1SD | 138 | 256 | 176 | 300 | 80 | 74 | 108 | 18.6 | 103 | 215 | 363 | | | | 20.8 | |
| W 86_S1 M1LA | 138 | 256 | 176 | 324 | 80 | 74 | 108 | 20.1 | 103 | 245 | 385 | | | | 22.3 | |
| W 86_S2 M2SA | 156 | 265 | 197 | 349 | 80 | 74 | 119 | 22.6 | 129 | 241 | 425 | 143 119* | 25.7 27.7 | | | |
| W 86_S2 M2SB | 156 | 265 | 197 | 349 | 80 | 74 | 119 | 24.6 | 129 | 241 | 425 | | | | | |
| W 86_S3 M3SA | 193 | 283.5 | 215.5 | 392 | 98 | 98 | 142 | 29.7 | 160 | 286.5 | 488 | 165 98* | 110 98* | 155 142* | 35 | |
| W 86_S3 M3LA | 193 | 283.5 | 215.5 | 424 | 98 | 98 | 142 | 33 | 160 | 286.5 | 515 | | | | 36 | |
| W 86_S3 M3LB | 193 | 283.5 | 215.5 | 424 | 98 | 98 | 142 | 35 | 160 | 286.5 | 515 | | | | 40 | |
| W 86_S3 M3LC | 193 | 283.5 | 215.5 | 424 | 98 | 98 | 142 | 37 | 160 | 286.5 | 515 | | | | 42 | |

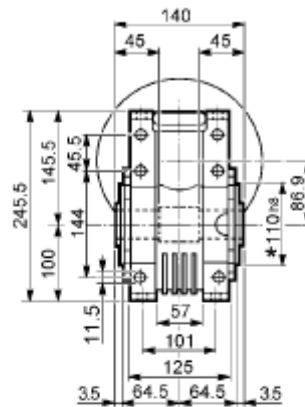
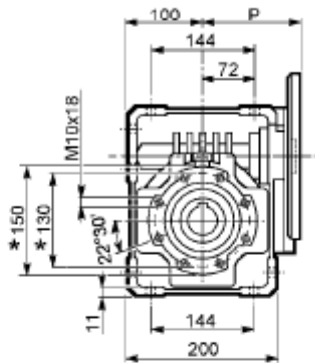
Predisposto IEC

IEC motor interface

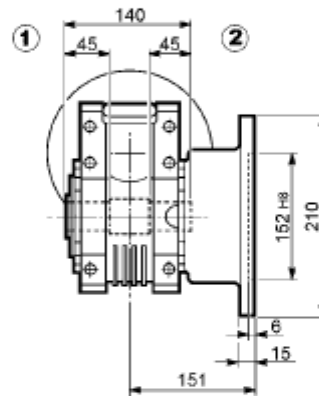
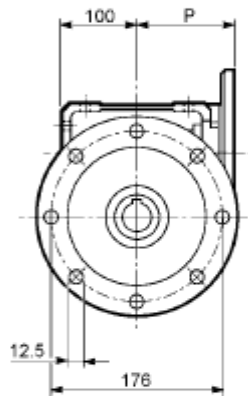
IEC vorbereitet

Prédisposé CEI

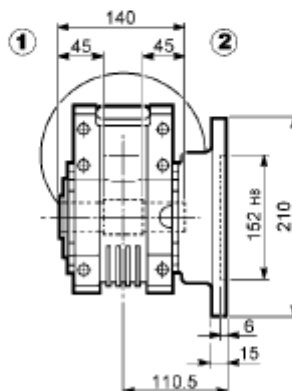
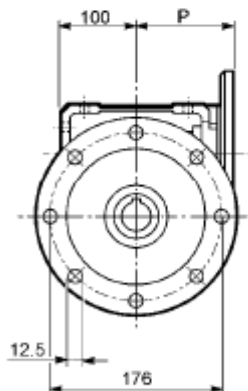
W 86 U...P



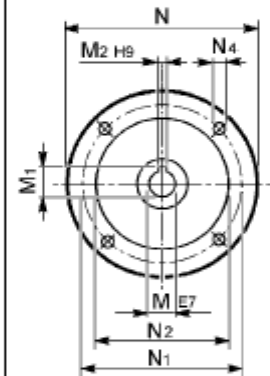
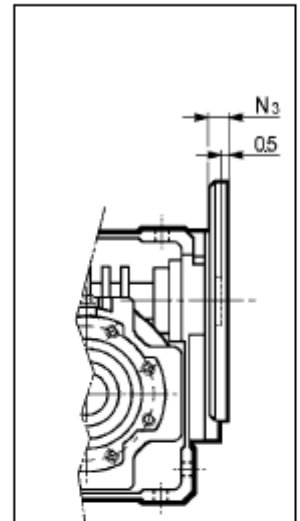
W 86 UF...P



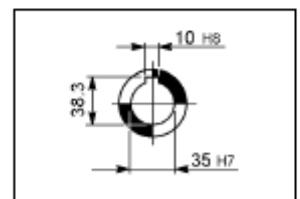
W 86 UFC...P





INPUT



OUTPUT



|  IEC | W 86 | | | | | | | | |  |
|---|-------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|-----|---|
| | M | M ₁ | M ₂ | N | N ₁ | N ₂ | N ₃ | N ₄ | P | |
| W 86_P 71 B5 | 14 | 16.3 | 5 | 160 | 130 | 110 | 11 | 9 | 128 | 13.6 |
| W 86_P 80 B5 | 19 | 21.8 | 6 | 200 | 165 | 130 | 12 | 11.5 | 128 | 13.8 |
| W 86_P 90 B5 | 24 | 27.3 | 8 | 200 | 165 | 130 | 12 | 11.5 | 128 | 13.7 |
| W 86_P 100 B5 | 28 | 31.3 | 8 | 250 | 215 | 180 | 13 | 12.5 | 136 | 13.8 |
| W 86_P 112 B5 | 28 | 31.3 | 8 | 250 | 215 | 180 | 13 | 12.5 | 136 | 13.8 |
| W 86_P 80 B14 | 19 | 21.8 | 6 | 120 | 100 | 80 | 7.5 | 6.5 | 128 | 13.5 |
| W 86_P 90 B14 | 24 | 27.3 | 8 | 140 | 115 | 95 | 7.5 | 8.5 | 128 | 13.5 |
| W 86_P 100 B14 | 28 | 31.3 | 8 | 160 | 130 | 110 | 10 | 8.5 | 136 | 13.6 |
| W 86_P 112 B14 | 28 | 31.3 | 8 | 160 | 130 | 110 | 10 | 8.5 | 136 | 13.6 |

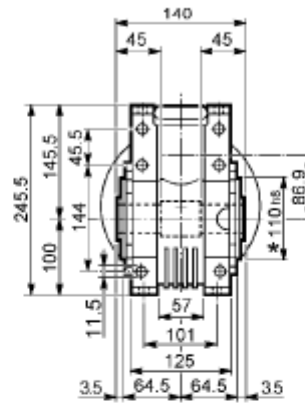
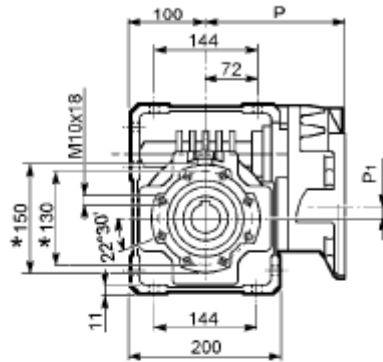
Predisposto IEC

IEC motor interface

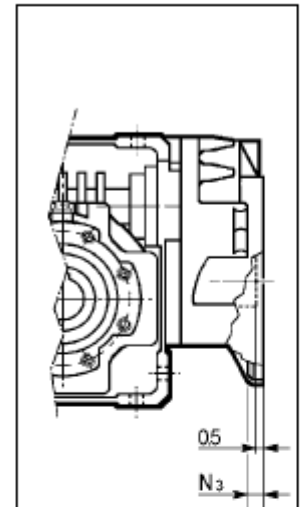
IEC vorbereitet

Prédisposé CEI

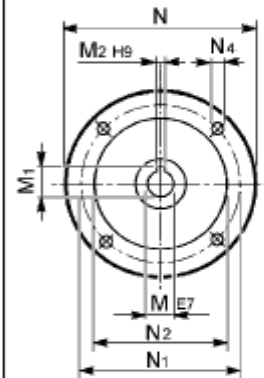
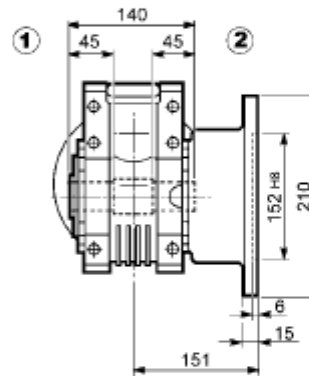
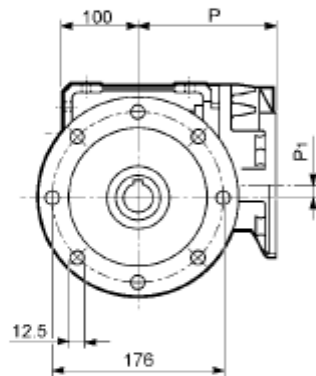
WR 86 U...P



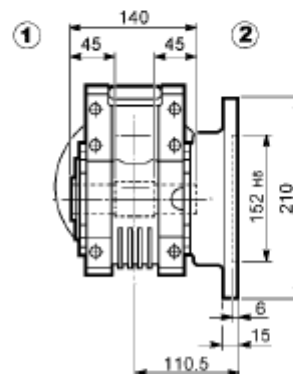
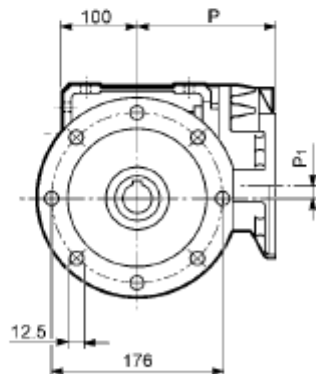
INPUT



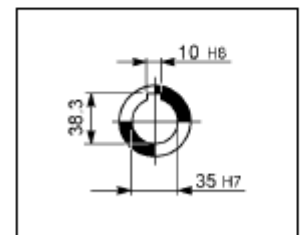
WR 86 UF...P





WR 86 UFC...P

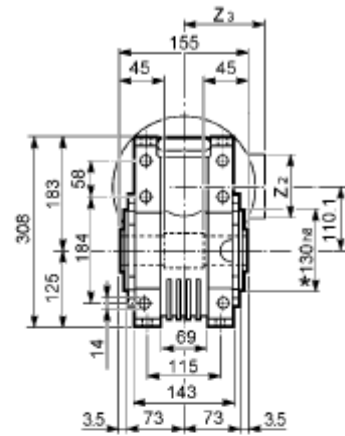
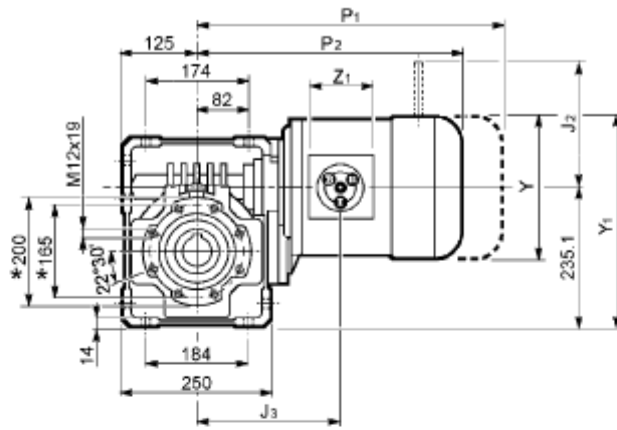


OUTPUT

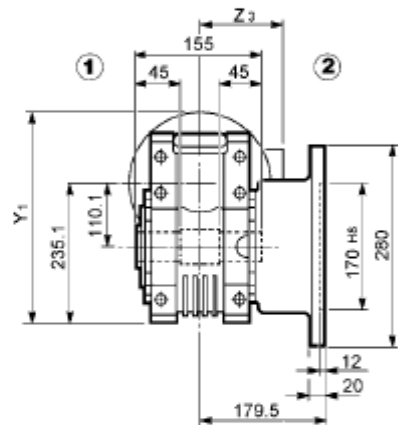
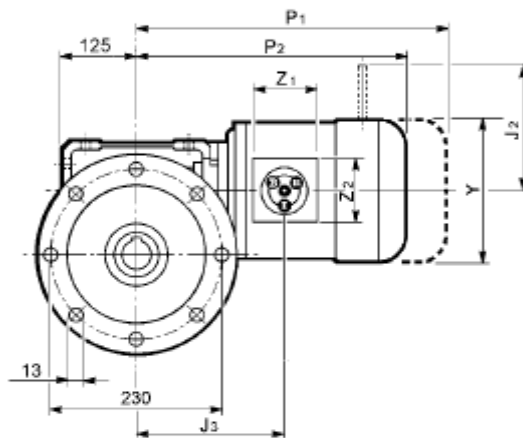


|  IEC | WR 86 | | | | | | | | | | |
|---|--------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|-------|----------------|---|
| | M | M ₁ | M ₂ | N | N ₁ | N ₂ | N ₃ | N ₄ | P | P ₁ |  |
| WR 86_P 63 B5 | 11 | 12.8 | 4 | 140 | 115 | 95 | 10 | M8x10 | 168 | 35.4 | 14.3 |
| WR 86_P 71 B5 | 14 | 16.3 | 5 | 160 | 130 | 110 | 10 | M8x10 | 168 | 35.4 | 14.4 |
| WR 86_P 80 B5 | 19 | 21.8 | 6 | 200 | 165 | 130 | 12 | M10x13 | 179.5 | 22.9 | 15.2 |
| WR 86_P 90 B5 | 24 | 27.3 | 8 | 200 | 165 | 130 | 12 | M10x13 | 179.5 | 22.9 | 15.3 |

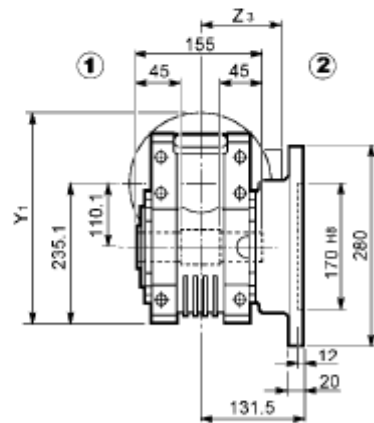
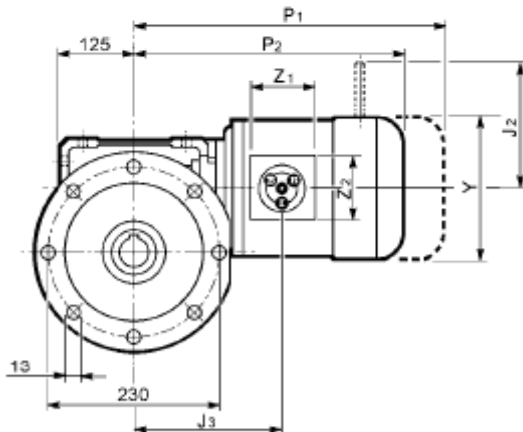
W 110 U...S



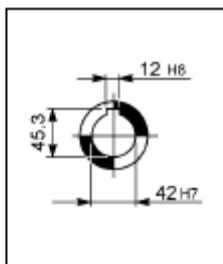
W 110 UF...S



W 110 UFC...S



OUTPUT



| | W 110 | | | | | | | | | | | | | | | |
|---------------|----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----------------|----------------|----------------|----------------|----------------|----------------|----|--|
| | Tutti / All Alle / Tous | | | | M_ | | | | M_FD | | | | M_FA(*) | | | |
| | Y | Y ₁ | J ₃ | P ₂ | Z ₁ | Z ₂ | Z ₃ | kg | J ₂ | J ₃ | P ₁ | Z ₁ | Z ₂ | Z ₃ | kg | |
| W 110_S2 M2SA | 156 | 313 | 212 | 364 | 80 | 74 | 119 | 47 | 129 | 256 | 440 | 133 | 98 | 143 | 51 | |
| W 110_S2 M2SB | 156 | 313 | 212 | 364 | 80 | 74 | 119 | 49 | 129 | 256 | 440 | 80* | 74* | 119* | 53 | |
| W 110_S3 M3SA | 193 | 332 | 231 | 407 | 98 | 98 | 142 | 55 | 160 | 302 | 503 | | | | 60 | |
| W 110_S3 M3LA | 193 | 332 | 231 | 439 | 98 | 98 | 142 | 58 | 160 | 302 | 530 | 165 | 110 | 155 | 63 | |
| W 110_S3 M3LB | 193 | 332 | 231 | 439 | 98 | 98 | 142 | 60 | 160 | 302 | 530 | 98 | 98* | 142* | 65 | |
| W 110_S3 M3LC | 193 | 332 | 231 | 439 | 98 | 98 | 142 | 62 | 160 | 302 | 530 | | | | 67 | |

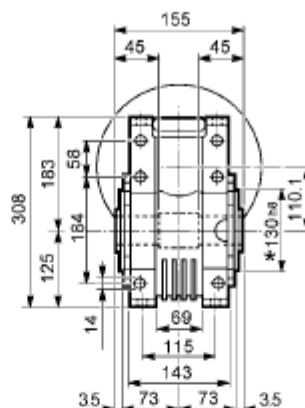
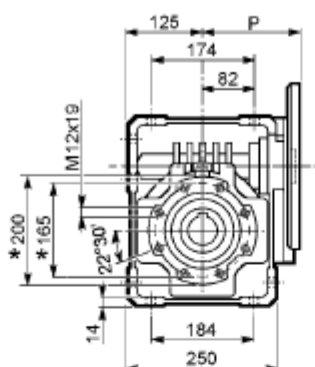
Predisposto IEC

IEC motor interface

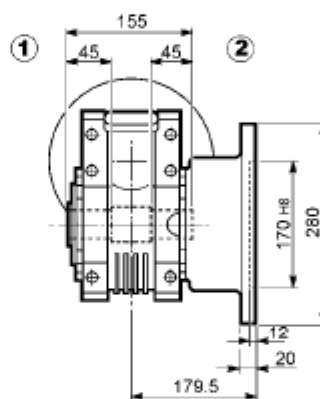
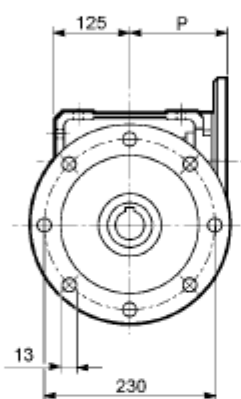
IEC vorbereitet

Prédisposé CEI

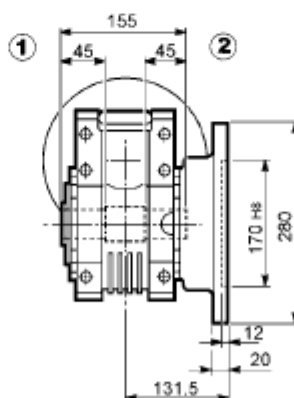
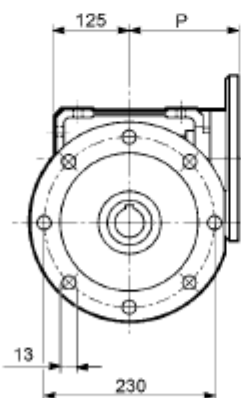
W 110 U...P



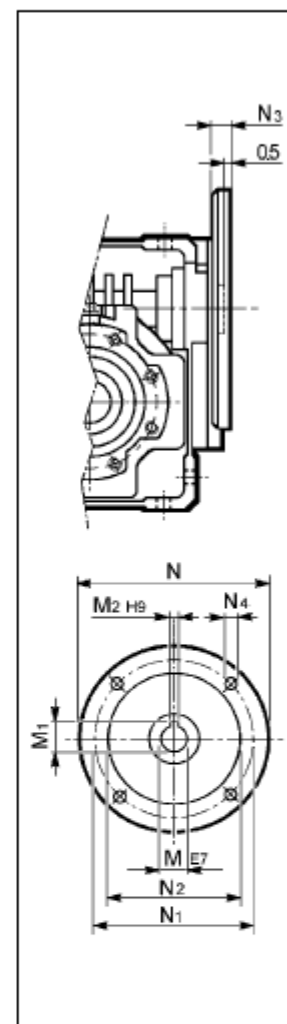
W 110 UF...P



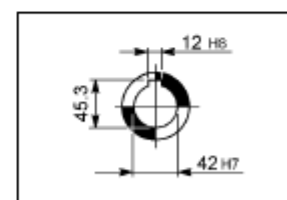
W 110 UFC...P



INPUT



OUTPUT



| IEC | W 110 | | | | | | | | | |
|-----------------|-------|----------------|----------------|-----|----------------|----------------|----------------|----------------|-----|----|
| | M | M ₁ | M ₂ | N | N ₁ | N ₂ | N ₃ | N ₄ | P | |
| W 110_P 80 B5 | 19 | 21.8 | 6 | 200 | 165 | 130 | — | M10x12 | 143 | 38 |
| W 110_P 90 B5 | 24 | 27.3 | 8 | 200 | 165 | 130 | — | M10x12 | 143 | 38 |
| W 110_P 100 B5 | 28 | 31.3 | 8 | 250 | 215 | 180 | 13 | 13 | 151 | 39 |
| W 110_P 112 B5 | 28 | 31.3 | 8 | 250 | 215 | 180 | 13 | 13 | 151 | 39 |
| W 110_P 132 B5 | 38 | 41.3 | 10 | 300 | 265 | 230 | 16 | 13 | 226 | 41 |
| W 110_P 80 B14 | 19 | 21.8 | 6 | 120 | 100 | 80 | 7.5 | 7 | 143 | 38 |
| W 110_P 90 B14 | 24 | 27.3 | 8 | 140 | 115 | 95 | 6.5 | 9 | 143 | 38 |
| W 110_P 100 B14 | 28 | 31.3 | 8 | 160 | 130 | 110 | 13 | 9 | 151 | 38 |
| W 110_P 112 B14 | 28 | 31.3 | 8 | 160 | 130 | 110 | 13 | 9 | 151 | 38 |

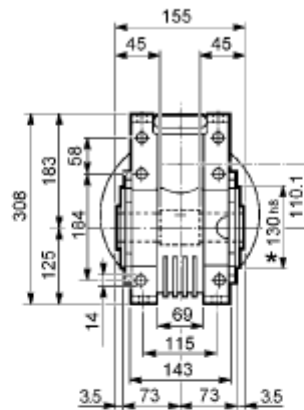
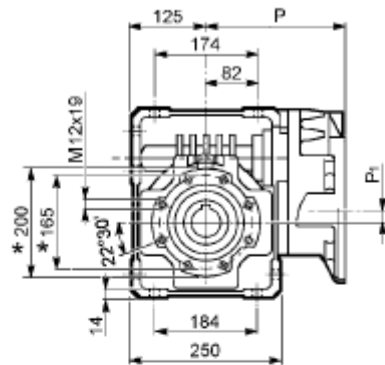
Predisposto IEC

IEC motor interface

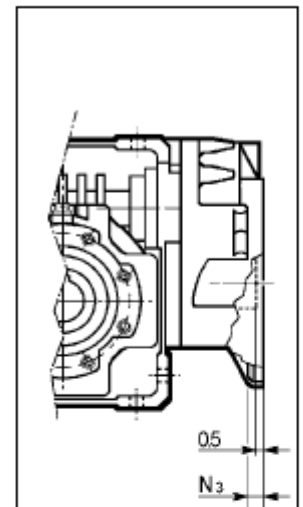
IEC vorbereitet

Prédisposé CEI

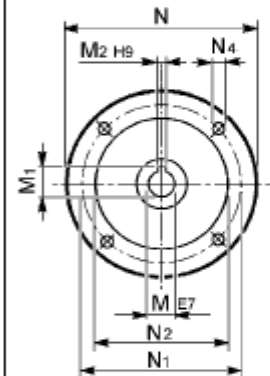
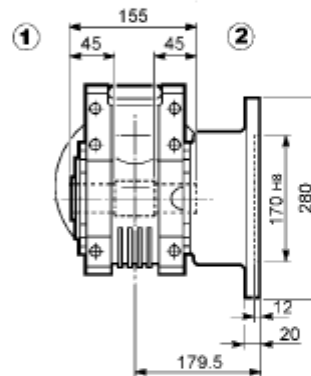
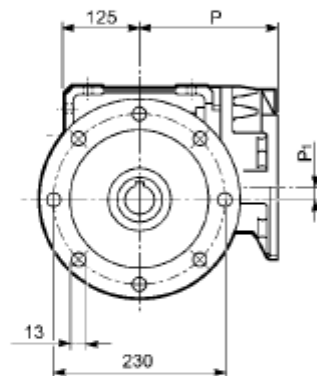
WR 110 U...P



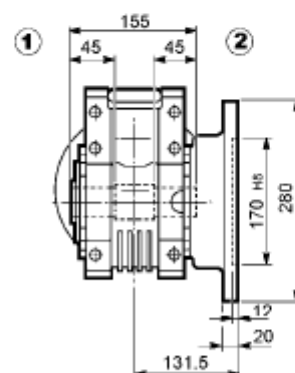
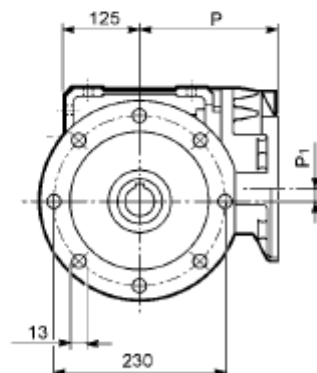
INPUT



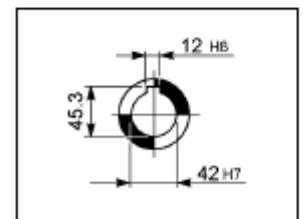
WR 110 UF...P





WR 110 UFC...P



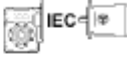



OUTPUT



|  IEC | WR 110 | | | | | | | | | | |
|---|---------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|-----|----------------|---|
| | M | M ₁ | M ₂ | N | N ₁ | N ₂ | N ₃ | N ₄ | P | P ₁ |  |
| WR 110_P 71 B5 | 14 | 16.3 | 5 | 160 | 130 | 110 | 10 | M8x14 | 185 | 58.6 | 44 |
| WR 110_P 80 B5 | 19 | 21.8 | 6 | 200 | 165 | 130 | 14 | M10x15 | 204 | 21.1 | 46 |
| WR 110_P 90 B5 | 24 | 27.3 | 8 | 200 | 165 | 130 | 14 | M10x15 | 204 | 21.1 | 46 |
| WR 110_P 100 B5 | 28 | 31.3 | 8 | 250 | 215 | 180 | 14 | M12x13 | 213 | 21.1 | 46 |
| WR 110_P 112 B5 | 28 | 31.3 | 8 | 250 | 215 | 180 | 14 | M12x13 | 213 | 21.1 | 48 |





0.09 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-----|---------------|---|--|---|---|
| 3.0 | 108 | 1.2 | 300 | 5000 | — | — | WR63_300 P63 BN63A6 | 57 |
| 3.0 | 116 | 1.7 | 300 | 6200 | — | — | WR75_300 P63 BN63A6 | 60 |
| 3.0 | 128 | 2.4 | 300 | 7000 | — | — | WR86_300 P63 BN63A6 | 63 |
| 3.8 | 97 | 1.4 | 240 | 5000 | — | — | WR63_240 P63 BN63A6 | 57 |
| 3.8 | 102 | 2.2 | 240 | 6200 | — | — | WR75_240 P63 BN63A6 | 60 |
| 3.8 | 113 | 2.7 | 240 | 7000 | — | — | WR86_240 P63 BN63A6 | 63 |
| 4.7 | 85 | 1.8 | 192 | 5000 | — | — | WR63_192 P63 BN63A6 | 57 |
| 5.1 | 87 | 3.2 | 180 | 6200 | — | — | WR75_180 P63 BN63A6 | 60 |
| 5.4 | 90 | 3.6 | 168 | 7000 | — | — | WR86_168 P63 BN63A6 | 63 |
| 6.7 | 69 | 2.6 | 135 | 5000 | — | — | WR63_135 P63 BN63A6 | 57 |
| 8.0 | 62 | 3.2 | 114 | 5000 | — | — | WR63_114 P63 BN63A6 | 57 |
| 9.0 | 43 | 2.8 | 100 | 5000 | — | — | — | — |
| 9.1 | 47 | 3.4 | 100 | 6200 | — | — | — | — |
| 10.1 | 53 | 3.9 | 90 | 5000 | — | — | WR63_90 P63 BN63A6 | 57 |
| 11.0 | 39 | 3.2 | 80 | 5000 | — | — | — | — |
| 12.6 | 46 | 3.6 | 72 | 5000 | — | — | WR63_72 P63 BN63A6 | 57 |
| 14.2 | 34 | 4.0 | 64 | 5000 | — | — | — | — |





0.12 kW

| | | | | | | | | |
|------|-----|-----|-----|------|---|---|---------------------|----|
| 3.0 | 144 | 0.9 | 300 | 5000 | — | — | WR63_300 P63 BN63B6 | 57 |
| 3.0 | 155 | 1.3 | 300 | 6200 | — | — | WR75_300 P63 BN63B6 | 60 |
| 3.0 | 170 | 1.8 | 300 | 7000 | — | — | WR86_300 P63 BN63B6 | 63 |
| 3.8 | 130 | 1.1 | 240 | 5000 | — | — | WR63_240 P63 BN63B6 | 57 |
| 3.8 | 136 | 1.6 | 240 | 6200 | — | — | WR75_240 P63 BN63B6 | 60 |
| 3.8 | 151 | 2.1 | 240 | 7000 | — | — | WR86_240 P63 BN63B6 | 63 |
| 4.7 | 101 | 1.3 | 300 | 5000 | — | — | WR63_300 P63 BN63A4 | 57 |
| 4.7 | 108 | 1.7 | 300 | 6200 | — | — | WR75_300 P63 BN63A4 | 60 |
| 4.7 | 120 | 2.3 | 300 | 7000 | — | — | WR86_300 P63 BN63A4 | 63 |
| 5.1 | 116 | 2.4 | 180 | 6200 | — | — | WR75_180 P63 BN63B6 | 60 |
| 5.4 | 121 | 3.2 | 168 | 7000 | — | — | WR86_168 P63 BN63B6 | 63 |
| 5.8 | 90 | 1.5 | 240 | 5000 | — | — | WR63_240 P63 BN63A4 | 57 |
| 5.8 | 96 | 2.2 | 240 | 6200 | — | — | WR75_240 P63 BN63A4 | 58 |
| 5.8 | 104 | 2.9 | 240 | 7000 | — | — | WR86_240 P63 BN63A4 | 63 |
| 6.1 | 104 | 3.0 | 150 | 6200 | — | — | WR75_150 P63 BN63B6 | 60 |
| 6.7 | 92 | 2.0 | 135 | 5000 | — | — | WR63_135 P63 BN63B6 | 57 |
| 7.3 | 80 | 1.9 | 192 | 5000 | — | — | WR63_192 P63 BN63A4 | 57 |
| 7.8 | 81 | 2.9 | 180 | 6200 | — | — | WR75_180 P63 BN63A4 | 60 |
| 9.0 | 58 | 2.1 | 100 | 5000 | — | — | — | — |
| 9.1 | 63 | 2.5 | 100 | 6200 | — | — | — | — |
| 10.4 | 64 | 2.7 | 135 | 5000 | — | — | WR63_135 P63 BN63A4 | 57 |
| 11.0 | 52 | 2.4 | 80 | 5000 | — | — | — | — |
| 11.4 | 54 | 3.6 | 80 | 6200 | — | — | — | — |
| 12.3 | 57 | 3.2 | 114 | 5000 | — | — | WR63_114 P63 BN63A4 | 57 |
| 14.2 | 45 | 3.0 | 64 | 5000 | — | — | — | — |
| 14.0 | 45 | 3.3 | 100 | 6200 | — | — | — | — |
| 14.0 | 42 | 2.8 | 100 | 5000 | — | — | — | — |
| 16.0 | 51 | 3.7 | 57 | 5000 | — | — | WR63_57 P63 BN63B6 | 57 |
| 17.5 | 37 | 3.1 | 80 | 5000 | — | — | — | — |
| 21.9 | 32 | 3.9 | 64 | 5000 | — | — | — | — |






0.18 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-----|---------------|---|---|---|---|
| 3.0 | 258 | 1.2 | 300 | 7000 | — | — | WR86_300 P71 BN71A6 | 63 |
| 3.0 | 275 | 2.1 | 300 | 8000 | — | — | WR110_300P71 BN71A6 | 66 |
| 3.8 | 206 | 1.1 | 240 | 6200 | — | — | WR75_240 P71 BN71A6 | 60 |
| 3.8 | 229 | 1.4 | 240 | 7000 | — | — | WR86_240 P71 BN71A6 | 63 |
| 3.8 | 243 | 2.4 | 240 | 8000 | — | — | WR110_240P71 BN71A6 | 66 |
| 4.6 | 163 | 1.1 | 300 | 6200 | — | — | WR75_300 P63 BN63B4 | 60 |
| 4.6 | 182 | 1.5 | 300 | 7000 | — | — | WR86_300 P63 BN63B4 | 63 |
| 4.7 | 202 | 1.9 | 192 | 7000 | — | — | WR86_192 P71 BN71A6 | 63 |
| 5.0 | 175 | 1.6 | 180 | 6200 | — | — | WR75_180 P71 BN71A6 | 60 |
| 5.4 | 183 | 2.1 | 168 | 7000 | — | — | WR86_168 P71 BN71A6 | 63 |
| 5.8 | 137 | 1.0 | 240 | 5000 | — | — | WR63_240 P63 BN63B4 | 57 |
| 5.8 | 145 | 1.5 | 240 | 6200 | — | — | WR75_240 P63 BN63B4 | 60 |
| 5.8 | 157 | 1.9 | 240 | 7000 | — | — | WR86_240 P63 BN63B4 | 63 |
| 6.0 | 158 | 2.0 | 150 | 6200 | — | — | WR75_150 P71 BN71A6 | 60 |
| 6.5 | 161 | 2.7 | 138 | 7000 | — | — | WR86_138 P71 BN71A6 | 63 |
| 7.2 | 121 | 1.2 | 192 | 5000 | — | — | WR63_192 P63 BN63B4 | 57 |
| 7.2 | 138 | 2.4 | 192 | 7000 | — | — | WR86_192 P63 BN63B4 | 63 |
| 7.5 | 138 | 2.4 | 120 | 6200 | — | — | WR75_120 P71 BN71A6 | 60 |
| 7.7 | 122 | 1.9 | 180 | 6200 | — | — | WR75_180 P63 BN63B4 | 60 |
| 7.9 | 126 | 1.6 | 114 | 5000 | — | — | WR63_114 P71 BN71A6 | 57 |
| 8.3 | 125 | 2.8 | 168 | 7000 | — | — | WR86_168 P63 BN63B4 | 63 |
| 9.0 | 88 | 1.4 | 100 | 5000 | W63_100 S1 M1SC6 | 55 | W63_100 P71 BN71A6 | 56 |
| 9.0 | 96 | 1.7 | 100 | 6200 | W75_100 S1 M1SC6 | 58 | W75_100 P71 BN71A6 | 59 |
| 9.0 | 105 | 2.4 | 100 | 7000 | W86_100 S1 M1SC6 | 61 | W86_100 P71 BN71A6 | 62 |
| 9.3 | 108 | 2.4 | 150 | 6200 | — | — | WR75_150 P63 BN63B4 | 60 |
| 10.0 | 107 | 1.9 | 90 | 5000 | — | — | WR63_90 P71 BN71A6 | 57 |
| 10.3 | 97 | 1.8 | 135 | 5000 | — | — | WR63_135 P63 BN63B4 | 57 |
| 11.0 | 79 | 1.6 | 80 | 5000 | W63_80 S1 M1SC6 | 55 | W63_80 P71 BN71A6 | 56 |
| 11.3 | 83 | 2.4 | 80 | 6200 | W75_80 S1 M1SC6 | 58 | W75_80 P71 BN71A6 | 59 |
| 11.3 | 90 | 3.1 | 80 | 7000 | W86_80 S1 M1SC6 | 61 | W86_80 P71 BN71A6 | 62 |
| 11.6 | 93 | 3.3 | 120 | 6200 | — | — | WR75_120 P63 BN63B4 | 60 |
| 12.0 | 100 | 3.3 | 75 | 6200 | — | — | WR75_75 P71 BN71A6 | 60 |
| 12.2 | 86 | 2.2 | 114 | 5000 | — | — | WR63_114 P63 BN63B4 | 57 |
| 13.9 | 68 | 2.2 | 100 | 6200 | — | — | — | — |
| 13.9 | 73 | 3.2 | 100 | 7000 | — | — | — | — |
| 13.9 | 63 | 1.8 | 100 | 5000 | — | — | — | — |
| 15.4 | 71 | 2.7 | 90 | 5000 | — | — | WR63_90 P63 BN63B4 | 57 |
| 17.4 | 55 | 2.1 | 80 | 5000 | — | — | — | — |
| 17.4 | 58 | 3.1 | 80 | 6200 | — | — | — | — |
| 19.3 | 62 | 3.0 | 72 | 5000 | — | — | WR63_72 P63 BN63B4 | 57 |
| 20.0 | 54 | 2.9 | 45 | 5000 | W63_45 S1 M1SC6 | 56 | W63_45 P71 BN71A6 | 56 |
| 21.7 | 48 | 2.6 | 64 | 5000 | — | — | — | — |
| 24.4 | 51 | 3.5 | 57 | 4910 | — | — | WR63_57 P63 BN63B4 | 57 |
| 31 | 37 | 3.9 | 45 | 4630 | — | — | — | — |



0.25 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|-----|---------------|---|--|---|---|
| 3.0 | 382 | 1.5 | 300 | 8000 | — | — | WR110_300P71 BN71B6 | 66 |
| 3.8 | 318 | 1.0 | 240 | 7000 | — | — | WR86_240 P71 BN71B6 | 63 |
| 3.8 | 337 | 1.7 | 240 | 8000 | — | — | WR110_240P71 BN71B6 | 66 |
| 4.6 | 255 | 1.1 | 300 | 7000 | — | — | WR86_300 P71 BN71A4 | 63 |
| 4.6 | 266 | 2.1 | 300 | 8000 | — | — | WR110_300P71 BN71A4 | 66 |
| 4.7 | 280 | 1.4 | 192 | 7000 | — | — | WR86_192 P71 BN71B6 | 63 |
| 5.7 | 204 | 1.1 | 240 | 6200 | — | — | WR75_240 P71 BN71A4 | 60 |
| 5.7 | 221 | 1.4 | 240 | 7000 | — | — | WR86_240 P71 BN71A4 | 63 |
| 5.7 | 233 | 2.4 | 240 | 8000 | — | — | WR110_240P71 BN71A4 | 66 |
| 6.0 | 219 | 1.4 | 150 | 6200 | — | — | WR75_150 P71 BN71B6 | 60 |
| 6.7 | 193 | 0.9 | 135 | 5000 | — | — | WR63_135 P71 BN71B6 | 57 |
| 7.2 | 193 | 1.7 | 192 | 7000 | — | — | WR86_192 P71 BN71A4 | 63 |
| 7.2 | 200 | 3.1 | 192 | 8000 | — | — | WR110_192P71 BN71A4 | 66 |
| 7.6 | 172 | 1.4 | 180 | 6200 | — | — | WR75_180 P71 BN71A4 | 60 |
| 7.9 | 175 | 1.1 | 114 | 5000 | — | — | WR63_114 P71 BN71B6 | 57 |
| 8.2 | 175 | 2.0 | 168 | 7000 | — | — | WR86_168 P71 BN71A4 | 63 |
| 9.0 | 122 | 1.0 | 100 | 5000 | W63_100 S1 M1SD6 | 55 | — | — |
| 9.0 | 133 | 1.2 | 100 | 6200 | W75_100 S1 M1SD6 | 58 | W75_100 P71 BN71B6 | 59 |
| 9.0 | 146 | 1.7 | 100 | 7000 | W86_100 S1 M1SD6 | 61 | W86_100 P71 BN71B6 | 62 |
| 9.2 | 151 | 1.7 | 150 | 6200 | — | — | WR75_150 P71 BN71A4 | 60 |
| 10.0 | 151 | 2.7 | 138 | 7000 | — | — | WR86_138 P71 BN71A4 | 63 |
| 10.0 | 160 | 2.3 | 90 | 6200 | — | — | WR75_90 P71 BN71B6 | 60 |
| 10.2 | 136 | 1.3 | 135 | 5000 | — | — | WR63_135 P71 BN71A4 | 57 |
| 11.0 | 110 | 1.1 | 80 | 5000 | W63_80 S1 M1SD6 | 55 | — | — |
| 11.3 | 115 | 1.7 | 80 | 6200 | W75_80 S1 M1SD6 | 58 | W75_80 P71 BN71B6 | 59 |
| 11.3 | 125 | 2.2 | 80 | 7000 | W86_80 S1 M1SD6 | 61 | W86_80 P71 BN71B6 | 62 |
| 11.5 | 131 | 2.3 | 120 | 6200 | — | — | WR75_120 P71 BN71A4 | 60 |
| 11.5 | 138 | 2.8 | 120 | 7000 | — | — | WR86_120 P71 BN71A4 | 63 |
| 12.1 | 121 | 1.5 | 114 | 5000 | — | — | WR63_114 P71 BN71A4 | 57 |
| 13.8 | 96 | 1.6 | 100 | 6200 | — | — | W75_100 P71 BN71A4 | 59 |
| 13.8 | 102 | 2.2 | 100 | 7000 | — | — | W86_100 P71 BN71A4 | 62 |
| 13.8 | 89 | 1.3 | 100 | 5000 | — | — | W63_100 P71 BN71A4 | 56 |
| 15.3 | 100 | 1.9 | 90 | 5000 | — | — | WR63_90 P71 BN71A4 | 57 |
| 15.3 | 108 | 3.0 | 90 | 6200 | — | — | WR75_90 P71 BN71A4 | 60 |
| 17.2 | 78 | 1.5 | 80 | 5000 | — | — | W63_80 P71 BN71A4 | 56 |
| 17.2 | 82 | 2.2 | 80 | 6200 | — | — | W75_80 P71 BN71A4 | 59 |
| 17.2 | 89 | 2.9 | 80 | 7000 | — | — | W86_80 P71 BN71A4 | 62 |
| 18.3 | 95 | 3.1 | 75 | 6200 | — | — | WR75_75 P71 BN71A4 | 60 |
| 19.1 | 88 | 2.1 | 72 | 5000 | — | — | WR63_72 P71 BN71A4 | 57 |
| 21.5 | 68 | 1.8 | 64 | 5000 | — | — | W63_64 P71 BN71A4 | 56 |
| 22.9 | 68 | 3.0 | 60 | 6200 | — | — | W75_60 P71 BN71A4 | 59 |
| 24.1 | 72 | 2.5 | 57 | 4780 | — | — | WR63_57 P71 BN71A4 | 57 |
| 31 | 59 | 3.0 | 45 | 4460 | — | — | WR63_45 P71 BN71A4 | 57 |
| 31 | 52 | 2.8 | 45 | 4550 | — | — | W63_45 P71 BN71A4 | 56 |
| 36 | 46 | 3.4 | 38 | 4320 | — | — | W63_38 P71 BN71A4 | 56 |
| 38 | 49 | 3.3 | 36 | 4160 | — | — | WR63_36 P71 BN71A4 | 57 |

0.37 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  IEC  |  |
|----------------------------|-------------|-----|-----|---------------|---|---|---|---|
| 3.0 | 559 | 1.0 | 300 | 8000 | — | — | WR110_300P80 BN80A6 | 66 |
| 3.8 | 494 | 1.2 | 240 | 8000 | — | — | WR110_240P80 BN80A6 | 66 |
| 4.6 | 395 | 1.4 | 300 | 8000 | — | — | WR110_300P71 BN71B4 | 66 |
| 4.7 | 410 | 1.0 | 192 | 7000 | — | — | WR86_192 P80 BN80A6 | 63 |
| 4.7 | 425 | 1.6 | 192 | 8000 | — | — | WR110_192P80 BN80A6 | 66 |
| 5.4 | 372 | 1.0 | 168 | 7000 | — | — | WR86_168 P80 BN80A6 | 63 |
| 5.4 | 391 | 2.0 | 168 | 8000 | — | — | WR110_168P80 BN80A6 | 66 |
| 5.7 | 328 | 0.9 | 240 | 7000 | — | — | WR86_240 P71 BN71B4 | 63 |
| 5.7 | 347 | 1.6 | 240 | 8000 | — | — | WR110_240P71 BN71B4 | 66 |
| 6.1 | 320 | 1.0 | 150 | 6200 | — | — | WR75_150 P80 BN80A6 | 60 |
| 6.6 | 327 | 1.3 | 138 | 7000 | — | — | WR86_138 P80 BN80A6 | 63 |
| 6.6 | 338 | 2.4 | 138 | 8000 | — | — | WR110_138P80 BN80A6 | 66 |
| 7.1 | 287 | 1.1 | 192 | 7000 | — | — | WR86_192 P71 BN71B4 | 63 |
| 7.1 | 297 | 2.1 | 192 | 8000 | — | — | WR110_192P71 BN71B4 | 66 |
| 7.6 | 294 | 1.5 | 120 | 7000 | — | — | WR86_120 P80 BN80A6 | 63 |
| 7.6 | 303 | 2.9 | 120 | 8000 | — | — | WR110_120P80 BN80A6 | 66 |
| 7.6 | 255 | 0.9 | 180 | 6200 | — | — | WR75_180 P71 BN71B4 | 60 |
| 8.2 | 260 | 1.4 | 168 | 7000 | — | — | WR86_168 P71 BN71B4 | 63 |
| 8.2 | 273 | 2.6 | 168 | 8000 | — | — | WR110_168P71 BN71B4 | 66 |
| 9.1 | 214 | 1.2 | 100 | 7000 | W86_100 S1 M1LA6 | 61 | W86_100 P80 BN80A6 | 62 |
| 9.1 | 224 | 1.2 | 150 | 6200 | — | — | WR75_150 P71 BN71B4 | 60 |
| 9.9 | 224 | 1.8 | 138 | 7000 | — | — | WR86_138 P71 BN71B4 | 63 |
| 9.9 | 235 | 3.0 | 138 | 8000 | — | — | WR110_138P71 BN71B4 | 66 |
| 10.1 | 234 | 1.6 | 90 | 6200 | — | — | WR75_90 P80 BN80A6 | 60 |
| 11.4 | 168 | 1.2 | 80 | 6200 | W75_80 S1 M1LA6 | 58 | W75_80 P80 BN80A6 | 59 |
| 11.4 | 183 | 1.5 | 80 | 7000 | W86_80 S1 M1LA6 | 61 | W86_80 P80 BN80A6 | 62 |
| 11.4 | 195 | 1.6 | 120 | 6200 | — | — | WR75_120 P71 BN71B4 | 60 |
| 11.4 | 204 | 1.9 | 120 | 7000 | — | — | WR86_120 P71 BN71B4 | 63 |
| 12.0 | 179 | 1.0 | 114 | 5000 | — | — | WR63_114 P71 BN71B4 | 57 |
| 12.1 | 204 | 1.6 | 75 | 6200 | — | — | WR75_75 P80 BN80A6 | 60 |
| 13.2 | 196 | 2.0 | 69 | 7000 | — | — | WR86_69 P80 BN80A6 | 63 |
| 13.7 | 142 | 1.1 | 100 | 6200 | W75_100 S1 M1SD4 | 58 | W75_100 P71 BN71B4 | 59 |
| 13.7 | 152 | 1.5 | 100 | 7000 | W86_100 S1 M1SD4 | 61 | W86_100 P71 BN71B4 | 62 |
| 14.2 | 139 | 1.0 | 64 | 5000 | W63_64 S1 M1LA6 | 55 | W63_64 P80 BN80A6 | 56 |
| 15.2 | 140 | 1.5 | 60 | 6200 | W75_60 S1 M1LA6 | 58 | W75_60 P80 BN80A6 | 59 |
| 15.2 | 149 | 1.3 | 90 | 5000 | — | — | WR63_90 P71 BN71B4 | 57 |
| 15.2 | 160 | 2.0 | 90 | 6200 | — | — | WR75_90 P71 BN71B4 | 60 |
| 15.2 | 156 | 2.8 | 90 | 7000 | — | — | WR86_90 P71 BN71B4 | 63 |
| 16.3 | 144 | 2.3 | 56 | 7000 | W86_56 S1 M1LA6 | 61 | W86_56 P80 BN80A6 | 62 |
| 17.1 | 116 | 1.0 | 80 | 5000 | W63_80 S1 M1SD4 | 55 | W63_80 P71 BN71B4 | 56 |
| 17.1 | 122 | 1.5 | 80 | 6200 | W75_80 S1 M1SD4 | 58 | W75_80 P71 BN71B4 | 59 |
| 17.1 | 132 | 1.9 | 80 | 7000 | W86_80 S1 M1SD4 | 61 | W86_80 P71 BN71B4 | 62 |
| 18.3 | 141 | 2.1 | 75 | 6200 | — | — | WR75_75 P71 BN71B4 | 30 |
| 19.0 | 130 | 1.4 | 72 | 4830 | — | — | WR63_72 P71 BN71B4 | 57 |
| 19.9 | 133 | 2.8 | 69 | 7000 | — | — | WR86_69 P71 BN71B4 | 63 |
| 20.2 | 136 | 2.6 | 45 | 6200 | — | — | WR75_45 P80 BN80A6 | 60 |
| 21.4 | 101 | 1.2 | 64 | 4870 | W63_64 S1 M1SD4 | 55 | W63_64 P71 BN71B4 | 56 |
| 21.4 | 112 | 2.5 | 64 | 7000 | W86_64 S1 M1SD4 | 61 | W86_64 P71 BN71B4 | 62 |
| 22.8 | 119 | 2.5 | 60 | 6200 | — | — | WR75_60 P71 BN71B4 | 60 |
| 22.8 | 119 | 3.2 | 60 | 7000 | — | — | WR86_60 P71 BN71B4 | 63 |
| 22.8 | 101 | 2.0 | 60 | 6200 | W75_60 S1 M1SD4 | 58 | W75_60 P71 BN71B4 | 59 |
| 24.0 | 107 | 1.7 | 57 | 4540 | — | — | WR63_57 P71 BN71B4 | 57 |
| 24.5 | 101 | 3.0 | 56 | 7000 | W86_56 S1 M1SD4 | 61 | W86_56 P71 BN71B4 | 62 |
| 27.4 | 88 | 2.5 | 50 | 6200 | W75_50 S1 M1SD4 | 58 | W75_50 P71 BN71B4 | 59 |





0.37 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  | 55 |  | 56 |
|-------------------------------------|----------------------|-----|----|----------------------|---|----|---|----|
| 30 | 78 | 1.9 | 45 | 4400 | W63_45 S1 M1SD4 | 55 | W63_45 P71 BN71B4 | 56 |
| 30 | 88 | 2.0 | 45 | 4250 | — | — | WR63_45 P71 BN71B4 | 57 |
| 30 | 93 | 3.2 | 45 | 5885 | — | — | WR75_45 P71 BN71B4 | 60 |
| 34 | 74 | 3.4 | 40 | 5820 | W75_40 S1 M1SD4 | 58 | W75_40 P71 BN71B4 | 59 |
| 36 | 69 | 2.3 | 38 | 4180 | W63_38 S1 M1SD4 | 55 | W63_38 P71 BN71B4 | 56 |
| 38 | 73 | 2.2 | 36 | 3980 | — | — | WR63_36 P71 BN71B4 | 57 |
| 46 | 57 | 2.8 | 30 | 3900 | W63_30 S1 M1SD4 | 55 | W63_30 P71 BN71B4 | 56 |
| 57 | 48 | 3.2 | 24 | 3650 | W63_24 S1 M1SD4 | 55 | W63_24 P71 BN71B4 | 56 |
| 72 | 40 | 3.8 | 19 | 3400 | W63_19 S1 M1SD4 | 55 | W63_19 P71 BN71B4 | 56 |

0.55 kW

| | | | | | | | | |
|------|-----|-----|-----|------|-------------------|----|---------------------|----|
| 4.6 | 582 | 0.9 | 300 | 8000 | — | — | WR110_300P80 BN80A4 | 66 |
| 4.8 | 625 | 1.1 | 192 | 8000 | — | — | WR110_192P80 BN80B6 | 66 |
| 5.8 | 512 | 1.1 | 240 | 8000 | — | — | WR110_240P80 BN80A4 | 66 |
| 7.2 | 438 | 1.4 | 192 | 8000 | — | — | WR110_192P80 BN80A4 | 66 |
| 7.7 | 432 | 1.0 | 120 | 7000 | — | — | WR86_120 P80 BN80B6 | 63 |
| 8.2 | 384 | 0.9 | 168 | 7000 | — | — | WR86_168 P80 BN80A4 | 63 |
| 8.2 | 403 | 1.8 | 168 | 8000 | — | — | WR110_168P80 BN80A4 | 64 |
| 9.2 | 325 | 1.5 | 100 | 8000 | W110_100 S2 M2SA6 | 64 | W110_100 P80 BN80B6 | 65 |
| 10.0 | 331 | 1.2 | 138 | 7000 | — | — | WR86_138 P80 BN80A4 | 63 |
| 10.0 | 347 | 2.0 | 138 | 8000 | — | — | WR110_138P80 BN80A4 | 66 |
| 10.2 | 344 | 1.1 | 90 | 6200 | — | — | WR75_90 P80 BN80B6 | 60 |
| 11.5 | 269 | 1.0 | 80 | 7000 | W86_80 S2 M2SA6 | 61 | W86_80 P80 BN80B6 | 62 |
| 11.5 | 288 | 1.1 | 120 | 6200 | — | — | WR75_120 P80 BN80A4 | 60 |
| 11.5 | 301 | 1.3 | 120 | 7000 | — | — | WR86_120 P80 BN80A4 | 63 |
| 11.5 | 311 | 2.6 | 120 | 8000 | — | — | WR110_120P80 BN80A4 | 66 |
| 12.3 | 300 | 1.1 | 75 | 6200 | — | — | WR75_75 P80 BN80B6 | 60 |
| 13.3 | 288 | 1.4 | 69 | 7000 | — | — | WR86_69 P80 BN80B6 | 63 |
| 13.3 | 295 | 2.5 | 69 | 8000 | — | — | WR110_69 P80 BN80B6 | 66 |
| 13.8 | 225 | 1.0 | 100 | 7000 | W86_100 S1 M1LA4 | 61 | W86_100 P80 BN80A4 | 62 |
| 15.3 | 240 | 3.5 | 90 | 8000 | — | — | WR110_90 P80 BN80A4 | 66 |
| 15.3 | 236 | 1.4 | 90 | 6200 | — | — | WR75_90 P80 BN80A4 | 60 |
| 15.3 | 230 | 1.9 | 90 | 7000 | — | — | WR86_90 P80 BN80A4 | 63 |
| 16.4 | 211 | 1.5 | 56 | 7000 | W86_56 S2 M2SA6 | 61 | W86_56 P80 BN80B6 | 62 |
| 17.3 | 180 | 1.0 | 80 | 6200 | W75_80 S1 M1LA4 | 58 | W75_80 P80 BN80A4 | 59 |
| 17.3 | 195 | 1.3 | 80 | 7000 | W86_80 S1 M1LA4 | 61 | W86_80 P80 BN80A4 | 62 |
| 18.4 | 208 | 1.4 | 75 | 6200 | — | — | WR75_75 P80 BN80A4 | 60 |
| 20.4 | 162 | 1.0 | 45 | 4540 | W63_45 S2 M2SA6 | 55 | W63_45 P80 BN80B6 | 56 |
| 20.0 | 197 | 1.9 | 69 | 7000 | — | — | WR86_69 P80 BN80A4 | 63 |
| 20.0 | 202 | 3.2 | 69 | 8000 | — | — | WR110_69 P80 BN80A4 | 66 |
| 21.6 | 166 | 1.7 | 64 | 7000 | W86_64 S1 M1LA4 | 61 | W86_64 P80 BN80A4 | 62 |
| 23.0 | 148 | 1.3 | 60 | 6200 | W75_60 S1 M1LA4 | 58 | W75_60 P80 BN80A4 | 59 |
| 23.0 | 176 | 2.1 | 60 | 6040 | — | — | WR75_60 P80 BN80A4 | 60 |
| 23.0 | 176 | 1.7 | 60 | 7000 | — | — | WR86_60 P80 BN80A4 | 63 |
| 23.0 | 162 | 2.2 | 40 | 7000 | W86_40 S2 M2SA6 | 61 | W86_40 P80 BN80B6 | 62 |
| 24.0 | 143 | 1.2 | 38 | 4340 | W63_38 S2 M2SA6 | 55 | W63_38 P80 BN80B6 | 56 |
| 24.6 | 149 | 2.0 | 56 | 7000 | W86_56 S1 M1LA4 | 61 | W86_56 P80 BN80A4 | 62 |
| 27.6 | 129 | 1.7 | 50 | 5960 | W75_50 S1 M1LA4 | 58 | W75_50 P80 BN80A4 | 59 |

0.55 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|----|---------------|---|---|---|---|
| 30 | 128 | 2.7 | 46 | 7000 | W86_46 S1 M1LA4 | 61 | W86_46 P80 BN80A4 | 62 |
| 31 | 137 | 2.2 | 45 | 5580 | — | — | WR75_45 P80 BN80A4 | 60 |
| 31 | 134 | 2.9 | 45 | 7000 | — | — | WR86_45 P80 BN80A4 | 63 |
| 31 | 115 | 1.3 | 45 | 4140 | W63_45 S1 M1LA4 | 55 | W63_45 P80 BN80A4 | 56 |
| 35 | 110 | 2.3 | 40 | 5610 | W75_40 S1 M1LA4 | 58 | W75_40 P80 BN80A4 | 59 |
| 35 | 114 | 2.9 | 40 | 7000 | W86_40 S1 M1LA4 | 61 | W86_40 P80 BN80A4 | 62 |
| 36 | 101 | 1.5 | 38 | 3950 | W63_38 S1 M1LA4 | 55 | W63_38 P80 BN80A4 | 56 |
| 40 | 105 | 3.3 | 23 | 7000 | W86_23 S2 M2SA6 | 61 | W86_23 P80 BN80B6 | 62 |
| 46 | 96 | 2.9 | 30 | 4950 | — | — | WR75_30 P80 BN80A4 | 60 |
| 46 | 88 | 3.1 | 30 | 5150 | W75_30 S1 M1LA4 | 58 | W75_30 P80 BN80A4 | 59 |
| 46 | 84 | 1.9 | 30 | 3700 | W63_30 S1 M1LA4 | 55 | W63_30 P80 BN80A4 | 56 |
| 55 | 76 | 3.3 | 25 | 4880 | W75_25 S1 M1LA4 | 58 | W75_25 P80 BN80A4 | 59 |
| 58 | 71 | 2.2 | 24 | 3480 | W63_24 S1 M1LA4 | 55 | W63_24 P80 BN80A4 | 56 |
| 73 | 59 | 2.6 | 19 | 3260 | W63_19 S1 M1LA4 | 55 | W63_19 P80 BN80A4 | 56 |
| 92 | 47 | 3.2 | 15 | 3050 | W63_15 S1 M1LA4 | 55 | W63_15 P80 BN80A4 | 56 |
| 115 | 39 | 3.6 | 12 | 2850 | W63_12 S1 M1LA4 | 55 | W63_12 P80 BN80A4 | 56 |
| 131 | 35 | 3.7 | 7 | 2700 | W63_7 S2 M2SA6 | 55 | W63_7 P80 BN80B6 | 56 |

0.75 kW

| | | | | | | | | |
|------|-----|-----|-----|------|-------------------|----|---------------------|----|
| 5.5 | 785 | 1.0 | 168 | 8000 | — | — | WR110_168P90 BN90S6 | 66 |
| 6.7 | 677 | 1.2 | 138 | 8000 | — | — | WR110_138P90 BN90S6 | 66 |
| 7.3 | 589 | 1.1 | 192 | 8000 | — | — | WR110_192P80 BN80B4 | 66 |
| 8.3 | 541 | 1.3 | 168 | 8000 | — | — | WR110_168P80 BN80B4 | 66 |
| 9.2 | 444 | 1.1 | 100 | 8000 | W110_100 S2 M2SB6 | 64 | W110_100 P90 BN90S6 | 65 |
| 10.1 | 445 | 0.9 | 138 | 7000 | — | — | WR86_138 P80 BN80B4 | 63 |
| 10.1 | 466 | 1.5 | 138 | 8000 | — | — | WR110_138P80 BN80B4 | 66 |
| 11.5 | 380 | 1.3 | 80 | 8000 | W110_80 S2 M2SB6 | 64 | W110_80 P90 BN90S6 | 65 |
| 11.7 | 405 | 1.0 | 120 | 7000 | — | — | WR86_120 P80 BN80B4 | 63 |
| 11.7 | 417 | 1.9 | 120 | 8000 | — | — | WR110_120P80 BN80B4 | 66 |
| 13.3 | 403 | 1.4 | 69 | 8000 | — | — | WR110_69 P90 BN90S6 | 66 |
| 14.0 | 317 | 1.5 | 100 | 8000 | W110_100 S2 M2SA4 | 64 | W110_100 P80 BN80B4 | 65 |
| 14.4 | 314 | 1.0 | 64 | 7000 | W86_64 S2 M2SB6 | 61 | W86_64 P90 BN90S6 | 62 |
| 15.6 | 318 | 1.0 | 90 | 6200 | — | — | WR75_90 P80 BN80B4 | 60 |
| 15.6 | 308 | 1.4 | 90 | 7000 | — | — | WR86_90 P80 BN80B4 | 63 |
| 15.6 | 322 | 2.6 | 90 | 8000 | — | — | WR110_90 P80 BN80B4 | 66 |
| 16.4 | 288 | 1.1 | 56 | 7000 | W86_56 S2 M2SB6 | 61 | W86_56 P90 BN90S6 | 62 |
| 16.4 | 296 | 2.2 | 56 | 8000 | W110_56 S2 M2SB6 | 64 | W110_56 P90 BN90S6 | 65 |
| 17.5 | 262 | 1.0 | 80 | 7000 | W86_80 S2 M2SA4 | 61 | W86_80 P80 BN80B4 | 62 |
| 17.5 | 270 | 1.7 | 80 | 8000 | W110_80 S2 M2SA4 | 64 | W110_80 P80 BN80B4 | 65 |
| 18.4 | 245 | 1.0 | 50 | 6200 | W75_50 S2 M2SB6 | 58 | W75_50 P90 BN90S6 | 59 |
| 18.7 | 280 | 1.1 | 75 | 5980 | — | — | WR75_75 P80 BN80B4 | 60 |
| 20.3 | 265 | 1.4 | 69 | 7000 | — | — | WR86_69 P80 BN80B4 | 63 |
| 20.3 | 272 | 2.4 | 69 | 8000 | — | — | WR110_69 P80 BN80B4 | 66 |
| 20.4 | 242 | 1.3 | 45 | 6010 | — | — | WR75_45 P90 BN90S6 | 60 |
| 21.9 | 223 | 1.3 | 64 | 7000 | W86_64 S2 M2SA4 | 61 | W86_64 P80 BN80B4 | 62 |
| 21.9 | 229 | 2.3 | 64 | 8000 | W110_64 S2 M2SA4 | 64 | W110_64 P80 BN80B4 | 65 |
| 23.0 | 212 | 1.3 | 40 | 5930 | W75_40 S2 M2SB6 | 58 | W75_40 P90 BN90S6 | 59 |





0.75 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N | | | | |
|----------------------------|-------------|-----|----|---------------|------------------|----|---------------------|----|
| 23.3 | 236 | 1.2 | 60 | 5640 | — | — | WR75_60 P80 BN80B4 | 60 |
| 23.3 | 236 | 1.6 | 60 | 7000 | — | — | WR86_60 P80 BN80B4 | 63 |
| 23.3 | 243 | 2.8 | 60 | 8000 | — | — | WR110_60 P80 BN80B4 | 66 |
| 23.3 | 200 | 1.0 | 60 | 5960 | W75_60 S2 M2SA4 | 58 | W75_60 P80 BN80B4 | 59 |
| 25.0 | 201 | 1.5 | 56 | 7000 | W86_56 S2 M2SA4 | 61 | W86_56 P80 BN80B4 | 62 |
| 25.0 | 206 | 2.9 | 56 | 8000 | W110_56 S2 M2SA4 | 64 | W110_56 P80 BN80B4 | 65 |
| 28.0 | 174 | 1.3 | 50 | 5670 | W75_50 S2 M2SA4 | 58 | W75_50 P80 BN80B4 | 59 |
| 30 | 172 | 2.0 | 46 | 7000 | W86_46 S2 M2SA4 | 61 | W86_46 P80 BN80B4 | 62 |
| 30 | 174 | 3.4 | 46 | 8000 | W110_46 S2 M2SA4 | 64 | W110_46 P80 BN80B4 | 65 |
| 31 | 154 | 0.9 | 45 | 3860 | W63_45 S2 M2SA4 | 55 | W63_45 P80 BN80B4 | 56 |
| 31 | 175 | 1.0 | 45 | 3570 | — | — | WR63_45 P80 BN80B4 | 57 |
| 31 | 184 | 1.6 | 45 | 5250 | — | — | WR75_45 P80 BN80B4 | 60 |
| 31 | 180 | 2.2 | 45 | 7000 | — | — | WR86_45 P80 BN80B4 | 63 |
| 35 | 147 | 1.7 | 40 | 5370 | W75_40 S2 M2SA4 | 58 | W75_40 P80 BN80B4 | 59 |
| 35 | 153 | 2.2 | 40 | 7000 | W86_40 S2 M2SA4 | 61 | W86_40 P80 BN80B4 | 62 |
| 37 | 136 | 1.1 | 38 | 3700 | W63_38 S2 M2SA4 | 55 | W63_38 P80 BN80B4 | 56 |
| 40 | 143 | 2.4 | 23 | 7000 | W86_23 S2 M2SB6 | 61 | W86_23 P90 BN90S6 | 62 |
| 47 | 117 | 3.2 | 30 | 7000 | W86_30 S2 M2SA4 | 61 | W86_30 P80 BN80B4 | 62 |
| 47 | 129 | 2.1 | 30 | 4680 | — | — | WR75_30 P80 BN80B4 | 60 |
| 47 | 118 | 2.3 | 30 | 4950 | W75_30 S2 M2SA4 | 58 | W75_30 P80 BN80B4 | 59 |
| 47 | 114 | 1.4 | 30 | 3490 | W63_30 S2 M2SA4 | 55 | W63_30 P80 BN80B4 | 56 |
| 56 | 102 | 2.4 | 25 | 4700 | W75_25 S2 M2SA4 | 58 | W75_25 P80 BN80B4 | 59 |
| 58 | 96 | 1.6 | 24 | 3290 | W63_24 S2 M2SA4 | 55 | W63_24 P80 BN80B4 | 56 |
| 61 | 96 | 3.3 | 23 | 7000 | W86_23 S2 M2SA4 | 61 | W86_23 P80 BN80B4 | 62 |
| 70 | 85 | 2.9 | 20 | 4400 | W75_20 S2 M2SA4 | 58 | W75_20 P80 BN80B4 | 59 |
| 74 | 79 | 1.9 | 19 | 3100 | W63_19 S2 M2SA4 | 55 | W63_19 P80 BN80B4 | 56 |
| 93 | 64 | 2.4 | 15 | 2910 | W63_15 S2 M2SA4 | 55 | W63_15 P80 BN80B4 | 56 |
| 117 | 52 | 2.7 | 12 | 2740 | W63_12 S2 M2SA4 | 55 | W63_12 P80 BN80B4 | 56 |
| 131 | 47 | 2.7 | 7 | 2590 | W63_7 S2 M2SB6 | 55 | W63_7 P90 BN90S6 | 56 |
| 140 | 44 | 3.2 | 10 | 2600 | W63_10 S2 M2SA4 | 55 | W63_10 P80 BN80B4 | 56 |
| 187 | 33 | 3.8 | 15 | 2440 | W63_15 S1 M1LA2 | 55 | W63_15 P80 BN80A2 | 56 |
| 200 | 32 | 3.8 | 7 | 2340 | W63_7 S2 M2SA4 | 55 | W63_7 P80 BN80B4 | 56 |

1.1 kW

| | | | | | | | | |
|------|-----|-----|-----|------|-------------------|----|---------------------|----|
| 7.7 | 891 | 1.0 | 120 | 8000 | — | — | WR110_120P90 BN90L6 | 66 |
| 10.1 | 683 | 1.0 | 138 | 8000 | — | — | WR110_138P90 BN90S4 | 66 |
| 10.2 | 678 | 1.3 | 90 | 8000 | — | — | WR110_90 P90 BN90L6 | 66 |
| 11.5 | 557 | 0.9 | 80 | 8000 | W110_80 S3 M3SA6 | 64 | W110_80 P90 BN90L6 | 65 |
| 11.7 | 612 | 1.6 | 120 | 8000 | — | — | WR110_120P90 BN90S4 | 66 |
| 14.0 | 465 | 1.0 | 100 | 8000 | W110_100 S2 M2SB4 | 64 | W110_100 P90 BN90S4 | 65 |
| 15.6 | 473 | 1.8 | 90 | 8000 | — | — | WR110_90 P90 BN90S4 | 66 |
| 17.5 | 396 | 1.2 | 80 | 8000 | W110_80 S2 M2SB4 | 64 | W110_80 P90 BN90S4 | 65 |
| 20.0 | 362 | 1.0 | 46 | 7000 | W86_46 S3 M3SA6 | 61 | W86_46 P90 BN90L6 | 62 |
| 20.3 | 357 | 1.0 | 69 | 7000 | — | — | WR86_69 P90 BN90S4 | 63 |
| 20.3 | 399 | 2.1 | 69 | 8000 | — | — | WR110_69 P90 BN90S4 | 66 |
| 21.9 | 336 | 1.6 | 64 | 8000 | W110_64 S2 M2SB4 | 64 | W110_64 P90 BN90S4 | 65 |
| 23.0 | 324 | 1.1 | 40 | 7000 | W86_40 S3 M3SA6 | 61 | W86_40 P90 BN90L6 | 62 |
| 23.3 | 320 | 1.1 | 60 | 7000 | — | — | WR86_60 P90 BN90S4 | 63 |
| 23.3 | 356 | 1.9 | 60 | 8000 | — | — | WR110_60 P90 BN90S4 | 66 |
| 25.0 | 294 | 1.0 | 56 | 7000 | W86_56 S2 M2SB4 | 61 | W86_56 P90 BN90S4 | 62 |


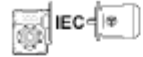
1.1 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|------|---------------|---|--|---|---|
| 25.0 | 303 | 2.0 | 56 | 8000 | W110_56 S2 M2SB4 | 64 | W110_56 P90 BN90S4 | 65 |
| 30 | 252 | 1.3 | 46 | 7000 | W86_46 S2 M2SB4 | 61 | W86_46 P90 BN90S4 | 62 |
| 30 | 255 | 2.3 | 46 | 8000 | W110_46 S2 M2SB4 | 64 | W110_46 P90 BN90S4 | 65 |
| 31 | 250 | 1.2 | 45 | 5010 | — | — | WR75_45 P90 BN90S4 | 60 |
| 31 | 246 | 1.6 | 45 | 7000 | — | — | WR86_45 P90 BN90S4 | 61 |
| 31 | 270 | 2.6 | 45 | 8000 | — | — | WR110_45 P90 BN90S4 | 66 |
| 35 | 216 | 1.2 | 40 | 4980 | W75_40 S2 M2SB4 | 58 | W75_40 P90 BN90S4 | 59 |
| 35 | 225 | 1.5 | 40 | 7000 | W86_40 S2 M2SB4 | 61 | W86_40 P90 BN90S4 | 62 |
| 35 | 228 | 2.9 | 40 | 8000 | W110_40 S2 M2SB4 | 64 | W110_40 P90 BN90S4 | 65 |
| 37 | 217 | 1.2 | 37.5 | 4790 | — | — | WR75_37.5 P90 BN90S4 | 60 |
| 40 | 210 | 1.6 | 23 | 7000 | W86_23 S3 M3SA6 | 61 | W86_23 P90 BN90L6 | 62 |
| 41 | 207 | 1.7 | 34.5 | 7000 | — | — | WR86_34.5 P90 BN90S4 | 63 |
| 47 | 180 | 1.5 | 30 | 4530 | — | — | WR75_30 P90 BN90S4 | 60 |
| 47 | 182 | 1.9 | 30 | 7000 | — | — | WR86_30 P90 BN90S4 | 63 |
| 47 | 171 | 2.2 | 30 | 7000 | W86_30 S2 M2SB4 | 61 | W86_30 P90 BN90S4 | 62 |
| 47 | 173 | 1.6 | 30 | 4640 | W75_30 S2 M2SB4 | 58 | W75_30 P90 BN90S4 | 59 |
| 47 | 167 | 1.0 | 30 | 3130 | W63_30 S2 M2SB4 | 55 | W63_30 P90 BN90S4 | 56 |
| 56 | 150 | 1.7 | 25 | 4420 | W75_25 S2 M2SB4 | 58 | W75_25 P90 BN90S4 | 59 |
| 58 | 140 | 1.1 | 24 | 2990 | W63_24 S2 M2SB4 | 55 | W63_24 P90 BN90S4 | 56 |
| 61 | 142 | 2.3 | 23 | 7000 | W86_23 S2 M2SB4 | 61 | W86_23 P90 BN90S4 | 62 |
| 70 | 125 | 2.0 | 20 | 4160 | W75_20 S2 M2SB4 | 58 | W75_20 P90 BN90S4 | 59 |
| 70 | 126 | 2.5 | 20 | 7000 | W86_20 S2 M2SB4 | 61 | W86_20 P90 BN90S4 | 62 |
| 74 | 115 | 1.3 | 19 | 2840 | W63_19 S2 M2SB4 | 55 | W63_19 P90 BN90S4 | 56 |
| 93 | 93 | 1.6 | 15 | 2690 | W63_15 S2 M2SB4 | 55 | W63_15 P90 BN90S4 | 56 |
| 93 | 96 | 3.4 | 15 | 6820 | W86_15 S2 M2SB4 | 61 | W86_15 P90 BN90S4 | 62 |
| 93 | 96 | 2.6 | 15 | 3850 | W75_15 S2 M2SB4 | 58 | W75_15 P90 BN90S4 | 59 |
| 117 | 77 | 1.8 | 12 | 2550 | W63_12 S2 M2SB4 | 55 | W63_12 P90 BN90S4 | 56 |
| 140 | 66 | 3.5 | 10 | 3420 | W75_10 S2 M2SB4 | 58 | W75_10 P90 BN90S4 | 59 |
| 140 | 65 | 2.2 | 10 | 2440 | W63_10 S2 M2SB4 | 55 | W63_10 P90 BN90S4 | 56 |
| 187 | 48 | 2.6 | 15 | 2330 | W63_15 S2 M2SA2 | 55 | W63_15 P80 BN80B2 | 56 |
| 200 | 46 | 2.6 | 7 | 2210 | W63_7 S2 M2SB4 | 55 | W63_7 P90 BN90S4 | 56 |
| 233 | 39 | 3.2 | 12 | 2190 | W63_12 S2 M2SA2 | 55 | W63_12 P80 BN80B2 | 56 |
| 280 | 33 | 3.8 | 10 | 2080 | W63_10 S2 M2SA2 | 55 | W63_10 P80 BN80B2 | 56 |

1.5 kW

| | | | | | | | | |
|------|-----|-----|-----|------|------------------|----|------------------------|----|
| 10.4 | 905 | 1.0 | 90 | 8000 | — | — | WR110_90 P100 BN100LA6 | 66 |
| 11.8 | 829 | 1.0 | 120 | 8000 | — | — | WR110_120 P90 BN90LA4 | 66 |
| 13.6 | 789 | 1.0 | 69 | 8000 | — | — | WR110_69 P100 BN100LA6 | 66 |
| 15.7 | 640 | 1.3 | 90 | 8000 | — | — | WR110_90 P90 BN90LA4 | 66 |
| 16.8 | 580 | 1.1 | 56 | 8000 | W110_56 S3 M3LA6 | 64 | W110_56 P100 BN100LA6 | 65 |
| 20.4 | 498 | 1.3 | 46 | 8000 | W110_46 S3 M3LA6 | 64 | W110_46 P100 BN100LA6 | 65 |
| 20.4 | 540 | 1.5 | 69 | 8000 | — | — | WR110_69 P90 BN90LA4 | 66 |
| 22.0 | 455 | 1.2 | 64 | 8000 | W110_64 S3 M3SA4 | 64 | W110_64 P90 BN90LA4 | 65 |
| 23.5 | 482 | 1.4 | 60 | 8000 | — | — | WR110_60 P90 BN90LA4 | 66 |
| 25.2 | 410 | 1.5 | 56 | 8000 | W110_56 S3 M3SA4 | 64 | W110_56 P90 BN90LA4 | 65 |
| 31 | 341 | 1.0 | 46 | 7000 | W86_46 S3 M3SA4 | 61 | W86_46 P90 BN90LA4 | 62 |
| 31 | 346 | 1.7 | 46 | 8000 | W110_46 S3 M3SA4 | 64 | W110_46 P90 BN90LA4 | 65 |
| 31 | 334 | 1.2 | 45 | 7000 | — | — | WR86_45 P90 BN90LA4 | 63 |
| 31 | 366 | 1.9 | 45 | 8000 | — | — | WR110_45 P90 BN90LA4 | 66 |
| 35 | 305 | 1.1 | 40 | 7000 | W86_40 S3 M3SA4 | 61 | W86_40 P90 BN90LA4 | 62 |
| 35 | 309 | 2.2 | 40 | 8000 | W110_40 S3 M3SA4 | 64 | W110_40 P90 BN90LA4 | 65 |
| 38 | 293 | 0.9 | 25 | 4330 | W75_25 S3 M3LA6 | 58 | W75_25 P100 BN100LA6 | 59 |



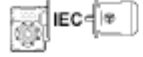

1.5 kW

| n ₂ min ⁻¹ | M ₂ Nm | S | i | R _{n2} N |  | |  | | |
|-------------------------------------|----------------------|-----|------|----------------------|---|-------|---|----------|----|
| 38 | 293 | 0.9 | 37.5 | 4330 | — | — | WR75_37.5 P90 | BN90LA4 | 60 |
| 41 | 280 | 1.2 | 23 | 7000 | W86_23 S3 | M3LA6 | W86_23 P100 | BN100LA6 | 62 |
| 41 | 280 | 1.2 | 34.5 | 7000 | — | — | WR86_34.5 P90 | BN90LA4 | 63 |
| 47 | 244 | 1.1 | 30 | 4130 | — | — | WR75_30 P90 | BN90LA4 | 60 |
| 47 | 235 | 1.2 | 30 | 4270 | W75_30 S3 | M3SA4 | W75_30 P90 | BN90LA4 | 59 |
| 47 | 247 | 1.4 | 30 | 7000 | — | — | WR86_30 P90 | BN90LA4 | 63 |
| 47 | 232 | 1.6 | 30 | 7000 | W86_30 S3 | M3SA4 | W86_30 P90 | BN90LA4 | 62 |
| 47 | 235 | 3.0 | 30 | 8000 | W110_30 S3 | M3SA4 | W110_30 P90 | BN90LA4 | 63 |
| 56 | 203 | 1.2 | 25 | 4100 | W75_25 S3 | M3SA4 | W75_25 P90 | BN90LA4 | 59 |
| 61 | 192 | 1.7 | 23 | 7000 | W86_23 S3 | M3SA4 | W86_23 P90 | BN90LA4 | 62 |
| 61 | 194 | 2.8 | 23 | 8000 | W110_23 S3 | M3SA4 | W110_23 P90 | BN90LA4 | 63 |
| 71 | 169 | 1.5 | 20 | 3880 | W75_20 S3 | M3SA4 | W75_20 P90 | BN90LA4 | 59 |
| 71 | 171 | 1.9 | 20 | 7000 | W86_20 S3 | M3SA4 | W86_20 P90 | BN90LA4 | 62 |
| 71 | 171 | 3.3 | 20 | 8000 | W110_20 S3 | M3SA4 | W110_20 P90 | BN90LA4 | 63 |
| 74 | 156 | 1.0 | 19 | 2550 | — | — | W63_19 P90 | BN90LA4 | 56 |
| 94 | 130 | 1.9 | 15 | 3630 | W75_15 S3 | M3SA4 | W75_15 P90 | BN90LA4 | 59 |
| 94 | 131 | 2.4 | 15 | 6520 | — | — | WR86_15 P90 | BN90LA4 | 61 |
| 94 | 130 | 2.5 | 15 | 6610 | W86_15 S3 | M3SA4 | W86_15 P90 | BN90LA4 | 62 |
| 94 | 126 | 1.2 | 15 | 2450 | — | — | W63_15 P90 | BN90LA4 | 56 |
| 118 | 104 | 1.4 | 12 | 2340 | — | — | W63_12 P90 | BN90LA4 | 56 |
| 134 | 94 | 2.2 | 7 | 3150 | W75_7 S3 | M3LA6 | W75_7 P100 | BN100LA6 | 59 |
| 141 | 89 | 2.6 | 10 | 3250 | W75_10 S3 | M3SA4 | W75_10 P90 | BN90LA4 | 59 |
| 141 | 89 | 3.2 | 10 | 5850 | W86_10 S3 | M3SA4 | W86_10 P90 | BN90LA4 | 62 |
| 141 | 87 | 1.6 | 10 | 2250 | — | — | W63_10 P90 | BN90LA4 | 56 |
| 187 | 68 | 3.3 | 15 | 3120 | W75_15 S2 | M2SB2 | W75_15 P90 | BN90SA2 | 59 |
| 187 | 66 | 1.9 | 15 | 2200 | W63_15 S2 | M2SB2 | W63_15 P90 | BN90SA2 | 56 |
| 201 | 63 | 1.9 | 7 | 2060 | — | — | W63_7 P90 | BN90LA4 | 56 |
| 201 | 63 | 3.9 | 7 | 5240 | W86_7 S3 | M3SA4 | W86_7 P90 | BN90LA4 | 62 |
| 201 | 64 | 3.0 | 7 | 2920 | W75_7 S3 | M3SA4 | W75_7 P90 | BN90LA4 | 59 |
| 233 | 53 | 2.3 | 12 | 2080 | W63_12 S2 | M2SB2 | W63_12 P90 | BN90SA2 | 56 |
| 280 | 45 | 2.8 | 10 | 1980 | W63_10 S2 | M2SB2 | W63_10 P90 | BN90SA2 | 56 |

1.85 kW

| | | | | | | | | | |
|------|-----|-----|------|------|------------|-------|---------------|----------|----|
| 15.6 | 795 | 1.0 | 90 | 8000 | — | — | WR110_90 P90 | BN90LB4 | 66 |
| 20.3 | 670 | 1.0 | 69 | 8000 | — | — | WR110_69 P90 | BN90LB4 | 66 |
| 21.9 | 565 | 0.9 | 64 | 8000 | — | — | W110_64 P90 | BN90LB4 | 66 |
| 23.3 | 555 | 1.3 | 40 | 8000 | W110_40 S3 | M3LB6 | W110_40 P100 | BN100LB6 | 65 |
| 23.3 | 598 | 1.1 | 60 | 8000 | — | — | WR110_60 P90 | BN90LB4 | 66 |
| 25.0 | 509 | 1.2 | 56 | 8000 | — | — | W110_56 P90 | BN90LB4 | 65 |
| 30 | 430 | 1.4 | 46 | 8000 | — | — | W110_46 P90 | BN90LB4 | 65 |
| 31 | 416 | 1.0 | 30 | 7000 | W86_30 S3 | M3LB6 | W86_30 P100 | BN100LB6 | 62 |
| 31 | 415 | 1.0 | 45 | 7000 | — | — | WR86_45 P90 | BN90LB4 | 63 |
| 31 | 454 | 1.6 | 45 | 8000 | — | — | WR110_45 P90 | BN90LB4 | 66 |
| 35 | 384 | 1.7 | 40 | 8000 | — | — | W110_40 P90 | BN90LB4 | 65 |
| 40 | 350 | 1.0 | 23 | 7000 | W86_23 S3 | M3LB6 | W86_23 P100 | BN100LB6 | 62 |
| 41 | 348 | 1.0 | 34.5 | 7000 | — | — | WR86_34.5 P90 | BN90LB4 | 63 |
| 47 | 308 | 1.1 | 20 | 7000 | W86_20 S3 | M3LB6 | W86_20 P100 | BN100LB6 | 62 |
| 47 | 307 | 1.1 | 30 | 7000 | — | — | WR86_30 P90 | BN90LB4 | 63 |
| 47 | 288 | 1.3 | 30 | 7000 | — | — | W86_30 P90 | BN90LB4 | 62 |
| 47 | 318 | 2.1 | 30 | 8000 | — | — | WR110_30 P90 | BN90LB4 | 66 |
| 47 | 292 | 2.4 | 30 | 8000 | — | — | W110_30 P90 | BN90LB4 | 65 |
| 47 | 292 | 0.9 | 30 | 3960 | — | — | W75_30 P90 | BN90LB4 | 59 |
| 56 | 252 | 1.0 | 25 | 3820 | — | — | W75_25 P90 | BN90LB4 | 59 |





1.85 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|----|---------------|---|---|---|---|
| 61 | 238 | 1.3 | 23 | 7000 | — | — | W86_23 P90 BN90LB4 | 62 |
| 61 | 241 | 2.2 | 23 | 8000 | — | — | W110_23 P90 BN90LB4 | 65 |
| 62 | 237 | 1.1 | 15 | 3600 | W75_15 S3 M3LB6 | 58 | W75_15 P100 BN100LB6 | 59 |
| 62 | 234 | 1.5 | 15 | 7000 | W86_15 S3 M3LB6 | 61 | W86_15 P100 BN100LB6 | 62 |
| 67 | 228 | 2.6 | 21 | 8000 | — | — | WR110_21 P90 BN90LB4 | 66 |
| 70 | 209 | 1.2 | 20 | 3650 | — | — | W75_20 P90 BN90LB4 | 59 |
| 70 | 212 | 1.5 | 20 | 6960 | — | — | W86_20 P90 BN90LB4 | 62 |
| 70 | 212 | 2.7 | 20 | 8000 | — | — | W110_20 P90 BN90LB4 | 65 |
| 93 | 163 | 1.5 | 10 | 3280 | W75_10 S3 M3LB6 | 58 | W75_10 P100 BN100LB6 | 59 |
| 93 | 161 | 2.1 | 15 | 6450 | — | — | W86_15 P90 BN90LB4 | 62 |
| 93 | 157 | 1.0 | 15 | 2230 | — | — | W63_15 P90 BN90LB4 | 56 |
| 93 | 161 | 1.6 | 15 | 3440 | — | — | W75_15 P90 BN90LB4 | 59 |
| 117 | 129 | 1.1 | 12 | 2150 | — | — | W63_12 P90 BN90LB4 | 56 |
| 133 | 117 | 2.3 | 7 | 5700 | W86_7 S3 M3LB6 | 61 | W86_7 P100 BN100LB6 | 62 |
| 133 | 117 | 1.8 | 7 | 2970 | W75_7 S3 M3LB6 | 58 | W75_7 P100 BN100LB6 | 59 |
| 140 | 109 | 1.3 | 10 | 2090 | — | — | W63_10 P90 BN90LB4 | 56 |
| 140 | 111 | 2.1 | 10 | 3100 | — | — | W75_10 P90 BN90LB4 | 59 |
| 140 | 111 | 2.6 | 10 | 5730 | — | — | W86_10 P90 BN90LB4 | 62 |
| 192 | 79 | 1.6 | 15 | 2080 | — | — | W63_15 P90 BN90SB2 | 56 |
| 192 | 81 | 2.8 | 15 | 3000 | — | — | W75_15 P90 BN90SB2 | 59 |
| 200 | 78 | 1.5 | 7 | 1930 | — | — | W63_7 P90 BN90LB4 | 56 |
| 200 | 80 | 2.4 | 7 | 2790 | — | — | W75_7 P90 BN90LB4 | 59 |
| 200 | 79 | 3.2 | 7 | 5140 | — | — | W86_7 P90 BN90LB4 | 62 |
| 240 | 64 | 2.0 | 12 | 1980 | — | — | W63_12 P90 BN90SB2 | 56 |
| 288 | 54 | 2.3 | 10 | 1890 | — | — | W63_10 P90 BN90SB2 | 56 |
| 288 | 55 | 3.7 | 10 | 2670 | — | — | W75_10 P90 BN90SB2 | 59 |
| 411 | 39 | 2.7 | 7 | 1720 | — | — | W63_7 P90 BN90SB2 | 56 |

2.2 kW

| | | | | | | | | |
|------|-----|-----|----|------|------------------|----|------------------------|----|
| 20.7 | 783 | 1.1 | 45 | 8000 | — | — | WR110_45 P112 BN112M6 | 66 |
| 23.3 | 660 | 1.1 | 40 | 8000 | W110_40 S3 M3LC6 | 64 | W110_40 P112 BN112M6 | 65 |
| 23.5 | 706 | 1.0 | 60 | 8000 | — | — | WR110_60 P100 BN100LA4 | 66 |
| 25.2 | 601 | 1.0 | 56 | 8000 | W110_56 S3 M3LA4 | 64 | W110_56 P100 BN100LA4 | 65 |
| 31 | 507 | 1.2 | 46 | 8000 | W110_46 S3 M3LA4 | 64 | W110_46 P100 BN100LA4 | 65 |
| 31 | 536 | 1.3 | 45 | 8000 | — | — | WR110_45 P100 BN100LA4 | 66 |
| 35 | 453 | 1.5 | 40 | 8000 | W110_40 S3 M3LA4 | 64 | W110_40 P100 BN100LA4 | 65 |
| 47 | 340 | 1.1 | 30 | 7000 | W86_30 S3 M3LA4 | 61 | W86_30 P100 BN100LA4 | 62 |
| 47 | 344 | 2.0 | 30 | 8000 | W110_30 S3 M3LA4 | 64 | W110_30 P100 BN100LA4 | 65 |
| 61 | 281 | 1.1 | 23 | 6990 | W86_23 S3 M3LA4 | 61 | W86_23 P100 BN100LA4 | 62 |
| 61 | 284 | 1.9 | 23 | 8000 | W110_23 S3 M3LA4 | 64 | W110_23 P100 BN100LA4 | 65 |
| 71 | 247 | 1.0 | 20 | 3410 | W75_20 S3 M3LA4 | 58 | W75_20 P100 BN100LA4 | 59 |
| 71 | 250 | 1.3 | 20 | 6730 | W86_20 S3 M3LA4 | 61 | W86_20 P100 BN100LA4 | 62 |
| 71 | 250 | 2.3 | 20 | 8000 | W110_20 S3 M3LA4 | 64 | W110_20 P100 BN100LA4 | 65 |
| 94 | 190 | 1.3 | 15 | 3240 | W75_15 S3 M3LA4 | 58 | W75_15 P100 BN100LA4 | 59 |
| 94 | 190 | 1.7 | 15 | 6270 | W86_15 S3 M3LA4 | 61 | W86_15 P100 BN100LA4 | 62 |
| 94 | 188 | 3.2 | 15 | 8000 | W110_15 S3 M3LA4 | 64 | W110_15 P100 BN100LA4 | 65 |
| 133 | 139 | 1.9 | 7 | 5540 | W86_7 S3 M3LC6 | 61 | W86_7 P112 BN112M6 | 62 |
| 133 | 139 | 1.5 | 7 | 2780 | W75_7 S3 M3LC6 | 58 | W75_7 P112 BN112M6 | 59 |
| 141 | 131 | 1.8 | 10 | 2940 | W75_10 S3 M3LA4 | 58 | W75_10 P100 BN100LA4 | 58 |
| 141 | 131 | 2.2 | 10 | 5590 | W86_10 S3 M3LA4 | 61 | W86_10 P100 BN100LA4 | 62 |
| 187 | 96 | 1.3 | 15 | 1980 | — | — | W63_15 P90 BN90L2 | 56 |
| 187 | 99 | 2.3 | 15 | 2920 | W75_15 S3 M3SA2 | 58 | W75_15 P90 BN90L2 | 59 |
| 187 | 98 | 3.0 | 15 | 5290 | W86_15 S3 M3SA2 | 61 | W86_15 P90 BN90L2 | 62 |

2.2 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|----|---------------|---|---|---|---|
| 201 | 93 | 2.7 | 7 | 5030 | W86_7 S3 M3LA4 | 61 | W86_7 P100 BN100LA4 | 62 |
| 201 | 94 | 2.0 | 7 | 2660 | W75_7 S3 M3LA4 | 58 | W75_7 P100 BN100LA4 | 56 |
| 234 | 78 | 1.6 | 12 | 1890 | — | — | W63_12 P90 BN90L2 | 56 |
| 281 | 67 | 3.0 | 10 | 2610 | W75_10 S3 M3SA2 | 58 | W75_10 P90 BN90L2 | 59 |
| 281 | 66 | 1.9 | 10 | 1820 | — | — | W63_10 P90 BN90L2 | 56 |
| 401 | 47 | 2.2 | 7 | 1660 | — | — | W63_7 P90 BN90L2 | 56 |
| 401 | 48 | 3.6 | 7 | 2350 | W75_7 S3 M3SA2 | 58 | W75_7 P90 BN90L2 | 59 |





3 kW

| | | | | | | | | |
|-----|-----|-----|----|------|------------------|----|------------------------|----|
| 31 | 677 | 1.1 | 30 | 8000 | — | — | W110_30 P132 BN132S6 | 65 |
| 31 | 731 | 1.0 | 45 | 8000 | — | — | WR110_45 P100 BN100LB4 | 66 |
| 35 | 618 | 1.1 | 40 | 8000 | W110_40 S3 M3LB4 | 64 | W110_40 P100 BN100LB4 | 65 |
| 41 | 568 | 1.0 | 23 | 8000 | — | — | W110_23 P132 BN132S6 | 65 |
| 47 | 469 | 1.5 | 30 | 8000 | W110_30 S3 M3LB4 | 64 | W110_30 P100 BN100LB4 | 65 |
| 61 | 388 | 1.4 | 23 | 8000 | W110_23 S3 M3LB4 | 64 | W110_23 P100 BN100LB4 | 65 |
| 71 | 341 | 0.9 | 20 | 6240 | W86_20 S3 M3LB4 | 61 | W86_20 P100 BN100LB4 | 62 |
| 71 | 341 | 1.7 | 20 | 8000 | W110_20 S3 M3LB4 | 64 | W110_20 P100 BN100LB4 | 65 |
| 94 | 259 | 1.0 | 15 | 2800 | W75_15 S3 M3LB4 | 58 | W75_15 P100 BN100LB4 | 59 |
| 94 | 259 | 1.3 | 15 | 5890 | W86_15 S3 M3LB4 | 61 | W86_15 P100 BN100LB4 | 62 |
| 94 | 256 | 2.3 | 15 | 8000 | W110_15 S3 M3LB4 | 63 | W110_15 P100 BN100LB4 | 65 |
| 141 | 179 | 1.3 | 10 | 2600 | W75_10 S3 M3LB4 | 58 | W75_10 P100 BN100LB4 | 59 |
| 141 | 179 | 1.6 | 10 | 5300 | W86_10 S3 M3LB4 | 61 | W86_10 P100 BN100LB4 | 62 |
| 141 | 177 | 3.1 | 10 | 8000 | W110_10 S3 M3LB4 | 64 | W110_10 P100 BN100LB4 | 65 |
| 191 | 132 | 1.7 | 15 | 2680 | W75_15 S3 M3LA2 | 58 | W75_15 P100 BN100L2 | 59 |
| 191 | 131 | 2.3 | 15 | 5070 | W86_15 S3 M3LA2 | 61 | W86_15 P100 BN100L2 | 62 |
| 201 | 128 | 1.5 | 7 | 2380 | W75_7 S3 M3LB4 | 58 | W75_7 P100 BN100LB4 | 59 |
| 201 | 127 | 2.0 | 7 | 4780 | W86_7 S3 M3LB4 | 61 | W86_7 P100 BN100LB4 | 62 |
| 286 | 90 | 2.3 | 10 | 2430 | W75_10 S3 M3LA2 | 58 | W75_10 P100 BN100L2 | 59 |
| 286 | 90 | 2.9 | 10 | 4510 | W86_10 S3 M3LA2 | 61 | W86_10 P100 BN100L2 | 62 |
| 409 | 64 | 2.7 | 7 | 2190 | W75_7 S3 M3LA2 | 58 | W75_7 P100 BN100L2 | 59 |
| 409 | 64 | 3.5 | 7 | 4040 | W86_7 S3 M3LA2 | 61 | W86_7 P100 BN100L2 | 62 |

4 kW

| | | | | | | | | |
|-----|-----|-----|----|------|------------------|----|----------------------|----|
| 46 | 635 | 1.1 | 30 | 8000 | W110_30 S3 M3LC4 | 64 | W110_30 P112 BN112M4 | 65 |
| 60 | 525 | 1.0 | 23 | 8000 | W110_23 S3 M3LC4 | 64 | W110_23 P112 BN112M4 | 65 |
| 70 | 462 | 1.2 | 20 | 8000 | W110_20 S3 M3LC4 | 64 | W110_20 P112 BN112M4 | 65 |
| 93 | 350 | 0.9 | 15 | 5410 | W86_15 S3 M3LC4 | 64 | W86_15 P112 BN112M4 | 62 |
| 93 | 346 | 1.7 | 15 | 8000 | W110_15 S3 M3LC4 | 64 | W110_15 P112 BN112M4 | 65 |
| 139 | 242 | 1.0 | 10 | 2160 | W75_10 S3 M3LC4 | 58 | W75_10 P112 BN112M4 | 59 |
| 139 | 242 | 1.2 | 10 | 4940 | W86_10 S3 M3LC4 | 61 | W86_10 P112 BN112M4 | 62 |
| 139 | 239 | 2.3 | 10 | 7840 | W110_10 S3 M3LC4 | 64 | W110_10 P112 BN112M4 | 65 |
| 191 | 176 | 1.3 | 15 | 2400 | W75_15 S3 M3LB2 | 58 | W75_15 P112 BN112M2 | 59 |
| 191 | 174 | 1.7 | 15 | 4820 | W86_15 S3 M3LB2 | 61 | W86_15 P112 BN112M2 | 62 |
| 191 | 174 | 3.1 | 15 | 7380 | W110_15 S3 M3LB2 | 64 | W110_15 P112 BN112M2 | 65 |
| 199 | 173 | 1.1 | 7 | 1900 | W75_7 S3 M3LC4 | 58 | W75_7 P112 BN112M4 | 59 |
| 199 | 171 | 1.5 | 7 | 4490 | W86_7 S3 M3LC4 | 61 | W86_7 P112 BN112M4 | 62 |
| 199 | 171 | 2.9 | 7 | 7040 | W110_7 S3 M3LC4 | 64 | W110_7 P112 BN112M4 | 65 |
| 287 | 120 | 1.7 | 10 | 2210 | W75_10 S3 M3LB2 | 58 | W75_10 P112 BN112M2 | 59 |
| 287 | 120 | 2.2 | 10 | 4320 | W86_10 S3 M3LB2 | 61 | W86_10 P112 BN112M2 | 62 |

4 kW

| n_2 min ⁻¹ | M_2 Nm | S | i | R_{n2} N |  |  |  |  |
|----------------------------|-------------|-----|---|---------------|---|---|---|---|
| 410 | 85 | 2.0 | 7 | 2010 | W75_7 S3 M3LB2 | 58 | W75_7 P112 BN112M2 | 59 |
| 410 | 85 | 2.7 | 7 | 3890 | W86_7 S3 M3LB2 | 61 | W86_7 P112 BN112M2 | 62 |

5.5 kW

| | | | | | | | | |
|-----|-----|-----|----|------|---|---|-----------------------|----|
| 63 | 692 | 0.9 | 15 | 8000 | — | — | W110_15 P132 BN132MB6 | 65 |
| 72 | 613 | 0.9 | 20 | 8000 | — | — | W110_20 P132 BN132S4 | 65 |
| 96 | 460 | 1.3 | 15 | 8000 | — | — | W110_15 P132 BN132S4 | 65 |
| 144 | 317 | 1.7 | 10 | 7330 | — | — | W110_10 P132 BN132S4 | 65 |
| 193 | 237 | 2.3 | 15 | 7060 | — | — | W110_15 P132 BN132SA2 | 65 |
| 206 | 227 | 2.2 | 7 | 6600 | — | — | W110_7 P132 BN132S4 | 65 |
| 289 | 162 | 3.0 | 10 | 6290 | — | — | W110_10 P132 BN132SA2 | 65 |
| 413 | 115 | 3.9 | 7 | 5640 | — | — | W110_7 P132 BN132SA2 | 65 |

7.5 kW

| | | | | | | | | |
|-----|-----|-----|----|------|---|---|-----------------------|----|
| 96 | 627 | 1.0 | 15 | 7370 | — | — | W110_15 P132 BN132M4 | 65 |
| 144 | 433 | 1.3 | 10 | 6720 | — | — | W110_10 P132 BN132M4 | 65 |
| 193 | 322 | 1.7 | 15 | 6660 | — | — | W110_15 P132 BN132SB2 | 65 |
| 206 | 310 | 1.6 | 7 | 6100 | — | — | W110_7 P132 BN132M4 | 65 |
| 290 | 220 | 2.2 | 10 | 5980 | — | — | W110_10 P132 BN132SB2 | 65 |
| 414 | 156 | 2.9 | 7 | 5380 | — | — | W110_7 P132 BN132SB2 | 65 |

9.2 kW

| | | | | | | | | |
|-----|-----|-----|----|------|---|---|-----------------------|----|
| 144 | 531 | 1.0 | 10 | 6210 | — | — | W110_10 P132 BN132MB4 | 65 |
| 193 | 395 | 1.4 | 15 | 6320 | — | — | W110_15 P132 BN132M2 | 65 |
| 206 | 380 | 1.3 | 7 | 5670 | — | — | W110_7 P132 BN132MB4 | 65 |
| 290 | 270 | 1.8 | 10 | 5720 | — | — | W110_10 P132 BN132M2 | 65 |
| 414 | 191 | 2.3 | 7 | 5170 | — | — | W110_7 P132 BN132M2 | 65 |

190 Nm




| | | i | η_s % | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | |
|-------------|---------|----|---------------|---|----------|----------|----------|----------|---|-------------------|----------|----------|----------|----------|----------|----|
| | | | | min^{-1} | Nm | kW | N | N | % | min^{-1} | Nm | kW | N | N | % | |
| | | | | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | | | | |
| W 63 | W 63_7 | 7 | 70 | 400 | 105 | 4.9 | 480 | 1010 | 90 | 200 | 120 | 2.9 | 480 | 1550 | 88 | 67 |
| | W 63_10 | 10 | 66 | 280 | 125 | 4.2 | 370 | 1360 | 88 | 140 | 140 | 2.4 | 480 | 1840 | 86 | |
| | W 63_12 | 12 | 63 | 233 | 125 | 3.5 | 435 | 1540 | 87 | 117 | 140 | 2.0 | 480 | 2070 | 85 | |
| | W 63_15 | 15 | 59 | 187 | 125 | 2.8 | 410 | 1770 | 86 | 93 | 150 | 1.8 | 480 | 2280 | 83 | |
| | W 63_19 | 19 | 55 | 147 | 130 | 2.4 | 310 | 1990 | 84 | 74 | 150 | 1.4 | 480 | 2600 | 81 | |
| | W 63_24 | 24 | 52 | 117 | 130 | 1.9 | 370 | 2250 | 82 | 58 | 155 | 1.2 | 480 | 2890 | 78 | |
| | W 63_30 | 30 | 44 | 93 | 125 | 1.6 | 440 | 2540 | 78 | 47 | 160 | 1.1 | 460 | 3170 | 74 | |
| | W 63_38 | 38 | 40 | 74 | 130 | 1.3 | 330 | 2800 | 75 | 37 | 155 | 0.85 | 480 | 3580 | 70 | |
| | W 63_45 | 45 | 37 | 62 | 130 | 1.2 | 380 | 3020 | 73 | 31 | 145 | 0.71 | 480 | 3920 | 67 | |
| | W 63_64 | 64 | 31 | 44 | 110 | 0.75 | 480 | 3650 | 67 | 21.9 | 125 | 0.47 | 480 | 4680 | 61 | |
| W 63_80 | 80 | 27 | 35 | 100 | 0.59 | 480 | 4050 | 62 | 17.5 | 115 | 0.38 | 480 | 5000 | 56 | | |
| W 63_100 | 100 | 23 | 28 | 100 | 0.51 | 480 | 4420 | 58 | 14.0 | 115 | 0.33 | 480 | 5000 | 51 | | |
| | | | | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | | | | |
| W 63_7 | 7 | 70 | 129 | 130 | 2.0 | 480 | 1870 | 87 | 71 | 140 | 1.2 | 480 | 2420 | 84 | 67 | |
| W 63_10 | 10 | 66 | 90 | 150 | 1.7 | 480 | 2220 | 84 | 50 | 165 | 1.1 | 480 | 2830 | 81 | | |
| W 63_12 | 12 | 63 | 75 | 150 | 1.4 | 480 | 2480 | 82 | 42 | 165 | 0.92 | 480 | 3140 | 79 | | |
| W 63_15 | 15 | 59 | 60 | 160 | 1.3 | 480 | 2740 | 80 | 33 | 180 | 0.83 | 480 | 3430 | 76 | | |
| W 63_19 | 19 | 55 | 47 | 160 | 1.0 | 480 | 3100 | 78 | 26.3 | 180 | 0.68 | 480 | 3860 | 73 | | |
| W 63_24 | 24 | 52 | 38 | 165 | 0.86 | 480 | 3440 | 75 | 20.8 | 185 | 0.58 | 480 | 4280 | 70 | | |
| W 63_30 | 30 | 44 | 30 | 170 | 0.76 | 480 | 3770 | 70 | 16.7 | 190 | 0.52 | 480 | 4690 | 64 | | |
| W 63_38 | 38 | 40 | 23.7 | 165 | 0.62 | 480 | 4240 | 66 | 13.2 | 185 | 0.42 | 480 | 5000 | 61 | | |
| W 63_45 | 45 | 37 | 20.0 | 155 | 0.52 | 480 | 4630 | 63 | 11.1 | 170 | 0.34 | 480 | 5000 | 58 | | |
| W 63_64 | 64 | 31 | 14.1 | 135 | 0.35 | 480 | 5000 | 56 | 7.8 | 150 | 0.24 | 480 | 5000 | 51 | | |
| W 63_80 | 80 | 27 | 11.3 | 125 | 0.28 | 480 | 5000 | 52 | 6.3 | 135 | 0.19 | 480 | 5000 | 46 | | |
| W 63_100 | 100 | 23 | 9.0 | 120 | 0.25 | 480 | 5000 | 46 | 5.0 | 130 | 0.17 | 480 | 5000 | 41 | | |

220 Nm




| | | i | η_s % | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | |
|--------------|-----------|-----|---------------|---|----------|----------|----------|----------|---|-------------------|----------|----------|----------|----------|----------|----|
| | | | | min^{-1} | Nm | kW | N | N | % | min^{-1} | Nm | kW | N | N | % | |
| | | | | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | | | | |
| WR 63 | WR 63_21 | 21 | 69 | 133 | 130 | 2.1 | 180 | 1840 | 87 | 67 | 140 | 1.2 | 320 | 2510 | 84 | 67 |
| | WR 63_30 | 30 | 65 | 93 | 150 | 1.7 | 300 | 2180 | 84 | 47 | 165 | 1.0 | 320 | 2920 | 81 | |
| | WR 63_36 | 36 | 62 | 78 | 150 | 1.5 | 320 | 2430 | 82 | 39 | 165 | 0.85 | 320 | 3240 | 79 | |
| | WR 63_45 | 45 | 58 | 62 | 160 | 1.3 | 320 | 2690 | 80 | 31 | 180 | 0.77 | 320 | 3540 | 76 | |
| | WR 63_57 | 57 | 54 | 49 | 160 | 1.1 | 320 | 3050 | 78 | 24.6 | 180 | 0.63 | 320 | 3980 | 73 | |
| | WR 63_72 | 72 | 51 | 39 | 165 | 0.90 | 320 | 3390 | 75 | 19.4 | 185 | 0.54 | 320 | 4410 | 70 | |
| | WR 63_90 | 90 | 44 | 31 | 170 | 0.79 | 320 | 3710 | 70 | 15.6 | 190 | 0.48 | 320 | 4830 | 64 | |
| | WR 63_114 | 114 | 39 | 24.6 | 165 | 0.62 | 320 | 4170 | 68 | 12.3 | 185 | 0.39 | 320 | 5000 | 61 | |
| | WR 63_135 | 135 | 36 | 20.7 | 155 | 0.53 | 320 | 4560 | 63 | 10.4 | 170 | 0.32 | 320 | 5000 | 58 | |
| | WR 63_192 | 192 | 30 | 14.6 | 135 | 0.37 | 320 | 5000 | 56 | 7.3 | 150 | 0.22 | 320 | 5000 | 51 | |
| WR 63_240 | 240 | 26 | 11.7 | 125 | 0.29 | 320 | 5000 | 52 | 5.8 | 135 | 0.18 | 320 | 5000 | 46 | | |
| WR 63_300 | 300 | 22 | 9.3 | 120 | 0.25 | 320 | 5000 | 46 | 4.7 | 130 | 0.15 | 320 | 5000 | 41 | | |
| | | | | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | | | | |
| WR 63_21 | 21 | 69 | 43 | 155 | 0.85 | 320 | 2960 | 82 | 23.8 | 170 | 0.53 | 320 | 3750 | 80 | 67 | |
| WR 63_30 | 30 | 65 | 30 | 180 | 0.72 | 320 | 3470 | 79 | 16.7 | 200 | 0.45 | 320 | 4360 | 77 | | |
| WR 63_36 | 36 | 62 | 25.0 | 180 | 0.61 | 320 | 3830 | 77 | 14.0 | 200 | 0.40 | 320 | 4790 | 74 | | |
| WR 63_45 | 45 | 58 | 20.0 | 190 | 0.54 | 320 | 4230 | 74 | 11.1 | 200 | 0.33 | 320 | 5000 | 71 | | |
| WR 63_57 | 57 | 54 | 15.8 | 190 | 0.44 | 320 | 4740 | 71 | 8.8 | 200 | 0.27 | 320 | 5000 | 68 | | |
| WR 63_72 | 72 | 51 | 12.5 | 190 | 0.37 | 320 | 5000 | 68 | 6.9 | 190 | 0.22 | 320 | 5000 | 64 | | |
| WR 63_90 | 90 | 44 | 10.0 | 205 | 0.35 | 320 | 5000 | 62 | 5.6 | 220 | 0.22 | 320 | 5000 | 58 | | |
| WR 63_114 | 114 | 39 | 7.9 | 200 | 0.29 | 320 | 5000 | 58 | 4.4 | 210 | 0.18 | 320 | 5000 | 54 | | |
| WR 63_135 | 135 | 36 | 6.7 | 180 | 0.23 | 320 | 5000 | 54 | 3.7 | 190 | 0.15 | 320 | 5000 | 50 | | |
| WR 63_192 | 192 | 30 | 4.7 | 150 | 0.16 | 320 | 5000 | 47 | 2.6 | 150 | 0.10 | 320 | 5000 | 43 | | |
| WR 63_240 | 240 | 26 | 3.8 | 140 | 0.13 | 320 | 5000 | 43 | 2.1 | 140 | 0.08 | 320 | 5000 | 39 | | |
| WR 63_300 | 300 | 22 | 3.0 | 130 | 0.11 | 320 | 5000 | 38 | 1.7 | 130 | 0.07 | 320 | 5000 | 34 | | |

75

320 Nm

| |  | i | η_s % | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | |
|-------------|---|----|---------------|-------------------------------|----------|----------|----------|----------|-------------------------------|-------------------|----------|----------|----------|----------|----------|---|
| | | | | min ⁻¹ | Nm | kW | N | N | % | min ⁻¹ | Nm | kW | N | N | % | |
| | | | | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | | | | |
| W 75 | W 75_ 7 | 7 | 71 | 400 | 170 | 7.8 | 750 | 700 | 91 | 200 | 190 | 4.4 | 750 | 1530 | 90 |  |
| | W 75_ 10 | 10 | 67 | 280 | 205 | 6.7 | 750 | 1610 | 90 | 140 | 230 | 3.8 | 750 | 2240 | 88 | |
| | W 75_ 15 | 15 | 60 | 187 | 225 | 5.0 | 750 | 2120 | 88 | 93 | 250 | 2.9 | 750 | 2870 | 85 | |
| | W 75_ 20 | 20 | 56 | 140 | 225 | 3.8 | 750 | 2550 | 86 | 70 | 250 | 2.2 | 750 | 3410 | 83 | |
| | W 75_ 25 | 25 | 52 | 112 | 225 | 3.2 | 750 | 2900 | 83 | 56 | 250 | 1.8 | 750 | 3840 | 80 | |
| | W 75_ 30 | 30 | 45 | 93 | 240 | 2.9 | 750 | 3100 | 81 | 47 | 270 | 1.7 | 750 | 4090 | 77 | |
| | W 75_ 40 | 40 | 40 | 70 | 225 | 2.1 | 750 | 3660 | 77 | 35 | 255 | 1.3 | 750 | 4770 | 72 | |
| | W 75_ 50 | 50 | 36 | 56 | 195 | 1.6 | 750 | 4180 | 73 | 28.0 | 220 | 0.95 | 750 | 5410 | 68 | |
| | W 75_ 60 | 60 | 33 | 47 | 180 | 1.3 | 750 | 4610 | 70 | 23.3 | 200 | 0.75 | 750 | 5960 | 65 | |
| | W 75_ 80 | 80 | 28 | 35 | 160 | 0.90 | 750 | 5310 | 65 | 17.5 | 180 | 0.56 | 750 | 6200 | 59 | |
| W 75_ 100 | 100 | 25 | 28.0 | 135 | 0.65 | 750 | 5960 | 61 | 14.0 | 150 | 0.40 | 750 | 6200 | 55 | | |
| | | | | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | | | | |
| W 75 | W 75_ 7 | 7 | 71 | 129 | 205 | 3.1 | 750 | 2120 | 88 | 71 | 225 | 2.0 | 750 | 2940 | 86 |  |
| | W 75_ 10 | 10 | 67 | 90 | 250 | 2.7 | 750 | 2700 | 86 | 50 | 275 | 1.7 | 750 | 3480 | 84 | |
| | W 75_ 15 | 15 | 60 | 60 | 270 | 2.0 | 750 | 3440 | 83 | 33 | 295 | 1.3 | 750 | 4380 | 80 | |
| | W 75_ 20 | 20 | 56 | 45 | 270 | 1.6 | 750 | 4050 | 80 | 25.0 | 295 | 1.0 | 750 | 5120 | 77 | |
| | W 75_ 25 | 25 | 52 | 36 | 270 | 1.3 | 750 | 4550 | 77 | 20.0 | 295 | 0.85 | 750 | 5720 | 73 | |
| | W 75_ 30 | 30 | 45 | 30 | 290 | 1.2 | 750 | 4860 | 74 | 16.7 | 320 | 0.81 | 750 | 6080 | 69 | |
| | W 75_ 40 | 40 | 40 | 22.5 | 275 | 1.0 | 750 | 5630 | 68 | 12.5 | 305 | 0.63 | 750 | 6200 | 63 | |
| | W 75_ 50 | 50 | 36 | 18.0 | 235 | 0.70 | 750 | 6200 | 63 | 10.0 | 260 | 0.47 | 750 | 6200 | 58 | |
| | W 75_ 60 | 60 | 33 | 15.0 | 215 | 0.56 | 750 | 6200 | 60 | 8.3 | 235 | 0.37 | 750 | 6200 | 55 | |
| | W 75_ 80 | 80 | 28 | 11.3 | 195 | 0.43 | 750 | 6200 | 54 | 6.3 | 215 | 0.29 | 750 | 6200 | 49 | |
| W 75_ 100 | 100 | 25 | 9.0 | 160 | 0.30 | 750 | 6200 | 50 | 5.0 | 180 | 0.21 | 750 | 6200 | 44 | | |


420 Nm

| |  | i | η_s % | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | |
|--------------|---|-----|---------------|-------------------------------|----------|----------|----------|----------|-------------------------------|-------------------|----------|----------|----------|----------|----------|---|
| | | | | min ⁻¹ | Nm | kW | N | N | % | min ⁻¹ | Nm | kW | N | N | % | |
| | | | | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | | | | |
| WR 75 | WR 75_ 21 | 21 | 70 | 133 | 205 | 3.3 | 500 | 2030 | 88 | 67 | 225 | 1.8 | 500 | 3060 | 86 |  |
| | WR 75_ 30 | 30 | 66 | 93 | 250 | 2.8 | 500 | 2640 | 86 | 47 | 275 | 1.6 | 500 | 3610 | 84 | |
| | WR 75_ 45 | 45 | 59 | 62 | 270 | 2.1 | 500 | 3380 | 83 | 31 | 295 | 1.2 | 500 | 4530 | 80 | |
| | WR 75_ 60 | 60 | 55 | 47 | 270 | 1.6 | 500 | 3980 | 80 | 23.3 | 295 | 0.94 | 500 | 5280 | 77 | |
| | WR 75_ 75 | 75 | 51 | 37 | 270 | 1.4 | 500 | 4480 | 77 | 18.7 | 295 | 0.79 | 500 | 5890 | 73 | |
| | WR 75_ 90 | 90 | 44 | 31 | 290 | 1.3 | 500 | 4780 | 74 | 15.6 | 320 | 0.76 | 500 | 6200 | 69 | |
| | WR 75_ 120 | 120 | 39 | 23.3 | 275 | 1.0 | 500 | 5540 | 68 | 11.7 | 305 | 0.59 | 500 | 6200 | 63 | |
| | WR 75_ 150 | 150 | 35 | 18.7 | 235 | 0.73 | 500 | 6200 | 63 | 9.3 | 260 | 0.44 | 500 | 6200 | 58 | |
| | WR 75_ 180 | 180 | 32 | 15.6 | 215 | 0.58 | 500 | 6200 | 60 | 7.8 | 235 | 0.35 | 500 | 6200 | 55 | |
| | WR 75_ 240 | 240 | 27 | 11.7 | 195 | 0.44 | 500 | 6200 | 54 | 5.8 | 215 | 0.27 | 500 | 6200 | 49 | |
| WR 75_ 300 | 300 | 24 | 9.3 | 160 | 0.31 | 500 | 6200 | 50 | 4.7 | 180 | 0.20 | 500 | 6200 | 44 | | |
| | | | | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | | | | |
| WR 75 | WR 75_ 21 | 21 | 70 | 43 | 245 | 1.3 | 500 | 3660 | 85 | 23.8 | 270 | 0.82 | 500 | 4660 | 82 |  |
| | WR 75_ 30 | 30 | 66 | 30 | 330 | 1.3 | 500 | 4070 | 82 | 16.7 | 370 | 0.81 | 500 | 5160 | 80 | |
| | WR 75_ 45 | 45 | 59 | 20.0 | 350 | 0.94 | 500 | 5180 | 78 | 11.1 | 400 | 0.62 | 500 | 6200 | 75 | |
| | WR 75_ 60 | 60 | 55 | 15.0 | 330 | 0.69 | 500 | 6180 | 75 | 8.3 | 370 | 0.45 | 500 | 6200 | 71 | |
| | WR 75_ 75 | 75 | 51 | 12.0 | 330 | 0.59 | 500 | 6200 | 70 | 6.7 | 350 | 0.37 | 500 | 6200 | 66 | |
| | WR 75_ 90 | 90 | 44 | 10.0 | 370 | 0.58 | 500 | 6200 | 67 | 5.6 | 420 | 0.39 | 500 | 6200 | 63 | |
| | WR 75_ 120 | 120 | 39 | 7.5 | 330 | 0.43 | 500 | 6200 | 60 | 4.2 | 380 | 0.30 | 500 | 6200 | 56 | |
| | WR 75_ 150 | 150 | 35 | 6.0 | 310 | 0.35 | 500 | 6200 | 55 | 3.3 | 350 | 0.24 | 500 | 6200 | 51 | |
| | WR 75_ 180 | 180 | 32 | 5.0 | 280 | 0.29 | 500 | 6200 | 51 | 2.8 | 320 | 0.20 | 500 | 6200 | 47 | |
| | WR 75_ 240 | 240 | 27 | 3.8 | 220 | 0.19 | 500 | 6200 | 45 | 2.1 | 280 | 0.15 | 500 | 6200 | 41 | |
| WR 75_ 300 | 300 | 24 | 3.0 | 200 | 0.15 | 500 | 6200 | 41 | 1.7 | 260 | 0.12 | 500 | 6200 | 37 | | |


370 Nm

| | i | η_s % | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | | |
|---------------------|------------|---------------|---|--|----------|----------|----------|----------|---|--|----------|----------|----------|----------|----|----|
| | | | min ⁻¹ | Nm | kW | N | N | % | min ⁻¹ | Nm | kW | N | N | % | | |
| | | | $n_1 = 2800 \text{ min}^{-1}$ | | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | | | | |
| WR 75_P90 B5 | WR 75_15 | 15 | 66 | 187 | 220 | 4.8 | — | 1960 | 89 | 93 | 250 | 2.8 | — | 2640 | 86 | 67 |
| | WR 75_22.5 | 22.5 | 59 | 124 | 240 | 3.6 | — | 2530 | 86 | 62 | 270 | 2.1 | — | 3380 | 83 | |
| | WR 75_30 | 30 | 55 | 93 | 240 | 2.8 | — | 3020 | 84 | 47 | 270 | 1.6 | — | 3980 | 80 | |
| | WR 75_37.5 | 37.5 | 51 | 75 | 240 | 2.3 | — | 3410 | 81 | 37 | 270 | 1.4 | — | 4480 | 77 | |
| | WR 75_45 | 45 | 44 | 62 | 255 | 2.1 | — | 3660 | 79 | 31 | 290 | 1.3 | — | 4780 | 74 | |
| | WR 75_60 | 60 | 39 | 47 | 240 | 1.6 | — | 4290 | 74 | 23.3 | 275 | 1.0 | — | 5540 | 68 | |
| | WR 75_75 | 75 | 35 | 37 | 210 | 1.2 | — | 4860 | 70 | 18.7 | 235 | 0.73 | — | 6200 | 63 | |
| | | | | $n_1 = 900 \text{ min}^{-1}$ | | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | | | |
| | WR 75_15 | 15 | 66 | 60 | 275 | 2.1 | — | 3150 | 84 | 33 | 330 | 1.4 | — | 3850 | 82 | 67 |
| | WR 75_22.5 | 22.5 | 59 | 40 | 295 | 1.5 | — | 4010 | 80 | 22.2 | 350 | 1.0 | — | 4920 | 78 | |
| | WR 75_30 | 30 | 55 | 30 | 295 | 1.2 | — | 4710 | 77 | 16.7 | 330 | 0.77 | — | 5890 | 75 | |
| | WR 75_37.5 | 37.5 | 51 | 24.0 | 295 | 1.0 | — | 5280 | 73 | 13.3 | 330 | 0.66 | — | 6200 | 70 | |
| WR 75_45 | 45 | 44 | 20.0 | 320 | 1.0 | — | 5610 | 69 | 11.1 | 370 | 0.64 | — | 6200 | 67 | | |
| WR 75_60 | 60 | 39 | 15.0 | 305 | 0.76 | — | 6200 | 63 | 8.3 | 330 | 0.48 | — | 6200 | 60 | | |
| WR 75_75 | 75 | 35 | 12.0 | 260 | 0.56 | — | 6200 | 58 | 6.7 | 310 | 0.39 | — | 6200 | 55 | | |


440 Nm

| |  | i | η_s % | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | | | | |
|------|---|-----|---------------|-------------------------------|------------------------------|----------------|---------------|---------------|-------------------------------|------------------------------|----------------|----------------|---------------|------|---------------|---------------|
| | | | | n_2 min^{-1} | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | η_d % | n_2 min^{-1} | M_{n2} Nm | P_{n1} kW | R_{n1} N | | R_{n2} N | η_d % |
| W 86 | W 86_7 | 7 | 71 | 400 | 225 | 10.4 | 850 | 2930 | 91 | 200 | 250 | 5.9 | 850 | 3920 | 89 | 67 |
| | W 86_10 | 10 | 67 | 280 | 260 | 8.5 | 850 | 3490 | 90 | 140 | 290 | 4.8 | 850 | 4620 | 88 | |
| | W 86_15 | 15 | 60 | 187 | 295 | 6.6 | 850 | 4200 | 87 | 93 | 330 | 3.8 | 850 | 5510 | 85 | |
| | W 86_20 | 20 | 60 | 140 | 285 | 4.9 | 850 | 4900 | 86 | 70 | 320 | 2.8 | 850 | 6380 | 84 | |
| | W 86_23 | 23 | 58 | 122 | 285 | 4.3 | 850 | 5250 | 85 | 61 | 320 | 2.5 | 850 | 6800 | 82 | |
| | W 86_30 | 30 | 45 | 93 | 320 | 3.9 | 850 | 5740 | 81 | 47 | 370 | 2.4 | 850 | 7000 | 76 | |
| | W 86_40 | 40 | 45 | 70 | 295 | 2.7 | 850 | 6670 | 79 | 35 | 330 | 1.6 | 850 | 7000 | 75 | |
| | W 86_46 | 46 | 43 | 61 | 305 | 2.5 | 850 | 7000 | 77 | 30 | 340 | 1.5 | 850 | 7000 | 73 | |
| | W 86_56 | 56 | 39 | 50 | 265 | 1.8 | 850 | 7000 | 75 | 25.0 | 300 | 1.1 | 850 | 7000 | 70 | |
| | W 86_64 | 64 | 37 | 44 | 250 | 1.6 | 850 | 7000 | 73 | 21.9 | 280 | 0.94 | 850 | 7000 | 68 | |
| | W 86_80 | 80 | 33 | 35 | 225 | 1.2 | 850 | 7000 | 69 | 17.5 | 255 | 0.73 | 850 | 7000 | 64 | |
| | W 86_100 | 100 | 29 | 28.0 | 205 | 0.92 | 850 | 7000 | 65 | 14.0 | 230 | 0.57 | 850 | 7000 | 59 | |
| | | | | | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | | | |
| W 86 | W 86_7 | 7 | 71 | 129 | 270 | 4.1 | 850 | 4670 | 88 | 71 | 295 | 2.6 | 850 | 5890 | 85 | 67 |
| | W 86_10 | 10 | 67 | 90 | 310 | 3.4 | 850 | 5500 | 86 | 50 | 345 | 2.2 | 850 | 6860 | 82 | |
| | W 86_15 | 15 | 60 | 60 | 355 | 2.7 | 850 | 6520 | 82 | 33 | 390 | 1.7 | 850 | 7000 | 78 | |
| | W 86_20 | 20 | 60 | 45 | 345 | 2.0 | 850 | 7000 | 81 | 25.0 | 380 | 1.3 | 850 | 7000 | 77 | |
| | W 86_23 | 23 | 58 | 39 | 345 | 1.8 | 850 | 7000 | 80 | 21.7 | 380 | 1.2 | 850 | 7000 | 75 | |
| | W 86_30 | 30 | 45 | 30 | 400 | 1.7 | 850 | 7000 | 73 | 16.7 | 440 | 1.1 | 850 | 7000 | 67 | |
| | W 86_40 | 40 | 45 | 22.5 | 355 | 1.2 | 850 | 7000 | 71 | 12.5 | 390 | 0.77 | 850 | 7000 | 66 | |
| | W 86_46 | 46 | 43 | 19.6 | 365 | 1.1 | 850 | 7000 | 69 | 10.9 | 405 | 0.73 | 850 | 7000 | 63 | |
| | W 86_56 | 56 | 39 | 16.1 | 325 | 0.83 | 850 | 7000 | 66 | 8.9 | 355 | 0.55 | 850 | 7000 | 60 | |
| | W 86_64 | 64 | 37 | 14.1 | 300 | 0.70 | 850 | 7000 | 63 | 7.8 | 330 | 0.47 | 850 | 7000 | 58 | |
| | W 86_80 | 80 | 33 | 11.3 | 275 | 0.55 | 850 | 7000 | 59 | 6.3 | 305 | 0.38 | 850 | 7000 | 53 | |
| | W 86_100 | 100 | 29 | 9.0 | 250 | 0.43 | 850 | 7000 | 55 | 5.0 | 275 | 0.29 | 850 | 7000 | 49 | |

550 Nm


| |  | i | η_s % | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | | | | |
|-------|---|-----|---------------|-------------------------------|------------------------------|----------------|---------------|---------------|-------------------------------|------------------------------|----------------|----------------|---------------|------|---------------|---------------|
| | | | | n_2 min^{-1} | M_{n2} Nm | P_{n1} kW | R_{n1} N | R_{n2} N | η_d % | n_2 min^{-1} | M_{n2} Nm | P_{n1} kW | R_{n1} N | | R_{n2} N | η_d % |
| WR 86 | WR 86_21 | 21 | 70 | 133 | 270 | 4.3 | 500 | 4590 | 88 | 67 | 295 | 2.4 | 500 | 6070 | 85 | 67 |
| | WR 86_30 | 30 | 66 | 93 | 310 | 3.5 | 500 | 5410 | 86 | 47 | 345 | 2.1 | 500 | 7000 | 82 | |
| | WR 86_45 | 45 | 59 | 62 | 355 | 2.8 | 500 | 6420 | 82 | 31 | 390 | 1.6 | 500 | 7000 | 78 | |
| | WR 86_60 | 60 | 59 | 47 | 345 | 2.1 | 500 | 7000 | 81 | 23.3 | 380 | 1.2 | 500 | 7000 | 77 | |
| | WR 86_69 | 69 | 57 | 41 | 345 | 1.8 | 500 | 7000 | 80 | 20.3 | 380 | 1.1 | 500 | 7000 | 75 | |
| | WR 86_90 | 90 | 44 | 31 | 400 | 1.8 | 500 | 7000 | 73 | 15.6 | 440 | 1.1 | 500 | 7000 | 67 | |
| | WR 86_120 | 120 | 44 | 23.3 | 355 | 1.2 | 500 | 7000 | 71 | 11.7 | 390 | 0.72 | 500 | 7000 | 66 | |
| | WR 86_138 | 138 | 42 | 20.3 | 365 | 1.1 | 500 | 7000 | 69 | 10.1 | 405 | 0.68 | 500 | 7000 | 63 | |
| | WR 86_168 | 168 | 38 | 16.7 | 325 | 0.86 | 500 | 7000 | 66 | 8.3 | 355 | 0.52 | 500 | 7000 | 60 | |
| | WR 86_192 | 192 | 36 | 14.6 | 300 | 0.73 | 500 | 7000 | 63 | 7.3 | 330 | 0.43 | 500 | 7000 | 58 | |
| | WR 86_240 | 240 | 32 | 11.7 | 275 | 0.57 | 500 | 7000 | 59 | 5.8 | 305 | 0.35 | 500 | 7000 | 53 | |
| | WR 86_300 | 300 | 28 | 9.3 | 250 | 0.44 | 500 | 7000 | 55 | 4.7 | 275 | 0.27 | 500 | 7000 | 49 | |
| | | | | | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | | | |
| WR 86 | WR 86_21 | 21 | 70 | 43 | 325 | 1.8 | 500 | 7000 | 83 | 23.8 | 355 | 1.1 | 500 | 7000 | 81 | 67 |
| | WR 86_30 | 30 | 66 | 30 | 375 | 1.5 | 500 | 7000 | 81 | 16.7 | 415 | 0.93 | 500 | 7000 | 78 | |
| | WR 86_45 | 45 | 59 | 20.0 | 450 | 1.2 | 500 | 7000 | 76 | 11.1 | 500 | 0.80 | 500 | 7000 | 73 | |
| | WR 86_60 | 60 | 59 | 15.0 | 430 | 0.90 | 500 | 7000 | 75 | 8.3 | 440 | 0.53 | 500 | 7000 | 72 | |
| | WR 86_69 | 69 | 57 | 13.0 | 390 | 0.73 | 500 | 7000 | 73 | 7.2 | 400 | 0.43 | 500 | 7000 | 70 | |
| | WR 86_90 | 90 | 44 | 10.0 | 500 | 0.82 | 500 | 7000 | 64 | 5.6 | 550 | 0.53 | 500 | 7000 | 60 | |
| | WR 86_120 | 120 | 44 | 7.5 | 440 | 0.55 | 500 | 7000 | 63 | 4.2 | 470 | 0.35 | 500 | 7000 | 59 | |
| | WR 86_138 | 138 | 42 | 6.5 | 430 | 0.48 | 500 | 7000 | 61 | 3.6 | 440 | 0.30 | 500 | 7000 | 56 | |
| | WR 86_168 | 168 | 38 | 5.4 | 390 | 0.38 | 500 | 7000 | 57 | 3.0 | 410 | 0.24 | 500 | 7000 | 53 | |
| | WR 86_192 | 192 | 36 | 4.7 | 390 | 0.35 | 500 | 7000 | 55 | 2.6 | 410 | 0.22 | 500 | 7000 | 50 | |
| | WR 86_240 | 240 | 32 | 3.8 | 310 | 0.24 | 500 | 7000 | 50 | 2.1 | 320 | 0.15 | 500 | 7000 | 46 | |
| | WR 86_300 | 300 | 28 | 3.0 | 310 | 0.22 | 500 | 7000 | 45 | 1.7 | 320 | 0.14 | 500 | 7000 | 41 | |

500 Nm


| | | | 500 Nm | | | | | | | | | | | | | | |
|--------------|------------|------|---|--|---------------------|---|-----------------------|-----------------------|--|----------------------|---|-------------------------------------|-----------------------|-----------------------|----------------------|----|----------------------|
| | | |  | i | η _s % | n ₁ = 2800 min ⁻¹ | | | | | n ₁ = 1400 min ⁻¹ | | | | | | |
| | | | | | | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | R _{n2} N | η _d % | n ₂ min ⁻¹ | M _{n2} Nm | P _{n1} kW | R _{n1} N | | R _{n2} N |
| WR 86_P90_B5 | WR 86_15 | 15 | 66 | 187 | 275 | 6.1 | — | 4130 | 88 | 93 | 310 | 3.5 | — | 5410 | 86 | 67 | |
| | WR 86_22.5 | 22.5 | 59 | 124 | 315 | 4.8 | — | 4920 | 86 | 62 | 355 | 2.8 | — | 6420 | 82 | | |
| | WR 86_30 | 30 | 59 | 93 | 305 | 3.5 | — | 5720 | 85 | 47 | 345 | 2.1 | — | 7000 | 81 | | |
| | WR 86_34.5 | 34.5 | 57 | 81 | 305 | 3.1 | — | 6110 | 84 | 41 | 345 | 1.8 | — | 7000 | 80 | | |
| | WR 86_45 | 45 | 44 | 62 | 350 | 3.0 | — | 6640 | 77 | 31 | 400 | 1.8 | — | 7000 | 73 | | |
| | WR 86_60 | 60 | 44 | 47 | 315 | 2.0 | — | 7000 | 77 | 23.3 | 355 | 1.2 | — | 7000 | 71 | | |
| | WR 86_69 | 69 | 42 | 41 | 325 | 1.8 | — | 7000 | 75 | 20.3 | 365 | 1.1 | — | 7000 | 69 | | |
| | WR 86_84 | 84 | 38 | 33 | 285 | 1.4 | — | 7000 | 72 | 16.7 | 325 | 0.86 | — | 7000 | 66 | | |
| | | | | n ₁ = 900 min ⁻¹ | | | | | n ₁ = 500 min ⁻¹ | | | | | | | | |
| | WR 86_15 | 15 | 66 | 60 | 345 | 2.6 | — | 6330 | 82 | 33 | 375 | 1.6 | — | 7000 | 81 | 67 | |
| | WR 86_22.5 | 22.5 | 59 | 40 | 390 | 2.1 | — | 7000 | 78 | 22.2 | 450 | 1.4 | — | 7000 | 76 | | |
| | WR 86_30 | 30 | 59 | 30 | 380 | 1.6 | — | 7000 | 77 | 16.7 | 430 | 1.0 | — | 7000 | 75 | | |
| | WR 86_34.5 | 34.5 | 57 | 26.1 | 380 | 1.4 | — | 7000 | 75 | 14.5 | 390 | 0.8 | — | 7000 | 73 | | |
| | WR 86_45 | 45 | 44 | 20.0 | 440 | 1.4 | — | 7000 | 67 | 11.1 | 500 | 0.9 | — | 7000 | 64 | | |
| WR 86_60 | 60 | 44 | 15.0 | 390 | 0.93 | — | 7000 | 66 | 8.3 | 440 | 0.61 | — | 7000 | 63 | | | |
| WR 86_69 | 69 | 42 | 13.0 | 405 | 0.88 | — | 7000 | 63 | 7.2 | 430 | 0.53 | — | 7000 | 61 | | | |
| WR 86_84 | 84 | 38 | 10.7 | 355 | 0.66 | — | 7000 | 60 | 6.0 | 390 | 0.43 | — | 7000 | 57 | | | |

110

830 Nm

| |  | i | η_s % | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | |
|--------------|---|-----|---------------|-------------------------------|----------|----------|----------|----------|-------------------------------|-------------------|----------|----------|----------|----------|----------|----|
| | | | | min ⁻¹ | Nm | kW | N | N | % | min ⁻¹ | Nm | kW | N | N | % | |
| | | | | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | | | | |
| W 110 | W 110_7 | 7 | 71 | 400 | 445 | 20.7 | 1200 | 3710 | 90 | 200 | 500 | 11.8 | 1200 | 5020 | 89 | 67 |
| | W 110_10 | 10 | 67 | 280 | 490 | 16.1 | 1200 | 4650 | 89 | 140 | 550 | 9.3 | 1200 | 6190 | 87 | |
| | W 110_15 | 15 | 60 | 187 | 535 | 12.0 | 1200 | 5770 | 87 | 93 | 600 | 7.0 | 1200 | 7590 | 84 | |
| | W 110_20 | 20 | 61 | 140 | 510 | 8.7 | 1200 | 6790 | 86 | 70 | 570 | 5.0 | 1200 | 8000 | 84 | |
| | W 110_23 | 23 | 59 | 122 | 480 | 7.1 | 1200 | 7430 | 86 | 61 | 540 | 4.1 | 1200 | 8000 | 83 | |
| | W 110_30 | 30 | 45 | 93 | 625 | 7.5 | 1200 | 7780 | 81 | 47 | 700 | 4.4 | 1200 | 8000 | 77 | |
| | W 110_40 | 40 | 46 | 70 | 595 | 5.5 | 1200 | 8000 | 80 | 35 | 670 | 3.2 | 1200 | 8000 | 76 | |
| | W 110_46 | 46 | 44 | 61 | 535 | 4.3 | 1200 | 8000 | 79 | 30 | 600 | 2.6 | 1200 | 8000 | 74 | |
| | W 110_56 | 56 | 41 | 50 | 535 | 3.7 | 1200 | 8000 | 76 | 25.0 | 600 | 2.2 | 1200 | 8000 | 72 | |
| | W 110_64 | 64 | 38 | 44 | 470 | 2.9 | 1200 | 8000 | 74 | 21.9 | 530 | 1.7 | 1200 | 8000 | 70 | |
| | W 110_80 | 80 | 34 | 35 | 420 | 2.2 | 1200 | 8000 | 71 | 17.5 | 470 | 1.3 | 1200 | 8000 | 66 | |
| | W 110_100 | 100 | 30 | 28.0 | 410 | 1.8 | 1200 | 8000 | 67 | 14.0 | 460 | 1.1 | 1200 | 8000 | 62 | |
| | | | | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | | | | |
| W 110_7 | 7 | 71 | 129 | 540 | 8.3 | 1200 | 6040 | 88 | 71 | 595 | 5.2 | 1200 | 7680 | 86 | 67 | |
| W 110_10 | 10 | 67 | 90 | 590 | 6.5 | 1200 | 7410 | 86 | 50 | 655 | 4.1 | 1200 | 8000 | 84 | | |
| W 110_15 | 15 | 60 | 60 | 645 | 4.9 | 1200 | 8000 | 83 | 33 | 710 | 3.1 | 1200 | 8000 | 80 | | |
| W 110_20 | 20 | 61 | 45 | 615 | 3.5 | 1200 | 8000 | 82 | 25.0 | 675 | 2.2 | 1200 | 8000 | 79 | | |
| W 110_23 | 23 | 59 | 39 | 580 | 2.9 | 1200 | 8000 | 81 | 21.7 | 640 | 1.9 | 1200 | 8000 | 77 | | |
| W 110_30 | 30 | 45 | 30 | 755 | 3.2 | 1200 | 8000 | 74 | 16.7 | 830 | 2.1 | 1200 | 8000 | 70 | | |
| W 110_40 | 40 | 46 | 22.5 | 720 | 2.3 | 1200 | 8000 | 73 | 12.5 | 795 | 1.5 | 1200 | 8000 | 68 | | |
| W 110_46 | 46 | 44 | 19.6 | 645 | 1.9 | 1200 | 8000 | 71 | 10.9 | 710 | 1.2 | 1200 | 8000 | 66 | | |
| W 110_56 | 56 | 41 | 16.1 | 645 | 1.6 | 1200 | 8000 | 68 | 8.9 | 710 | 1.1 | 1200 | 8000 | 63 | | |
| W 110_64 | 64 | 38 | 14.1 | 570 | 1.3 | 1200 | 8000 | 65 | 7.8 | 630 | 0.86 | 1200 | 8000 | 60 | | |
| W 110_80 | 80 | 34 | 11.3 | 505 | 0.98 | 1200 | 8000 | 61 | 6.3 | 560 | 0.65 | 1200 | 8000 | 56 | | |
| W 110_100 | 100 | 30 | 9.0 | 495 | 0.82 | 1200 | 8000 | 57 | 5.0 | 545 | 0.56 | 1200 | 8000 | 51 | | |

1000 Nm

| |  | i | η_s % | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | n_2 | M_{n2} | P_{n1} | R_{n1} | R_{n2} | η_d | |
|---------------|---|-----|---------------|-------------------------------|----------|----------|----------|----------|-------------------------------|-------------------|----------|----------|----------|----------|----------|----|
| | | | | min ⁻¹ | Nm | kW | N | N | % | min ⁻¹ | Nm | kW | N | N | % | |
| | | | | $n_1 = 2800 \text{ min}^{-1}$ | | | | | $n_1 = 1400 \text{ min}^{-1}$ | | | | | | | |
| WR 110 | WR 110_21 | 21 | 70 | 133 | 540 | 8.6 | 700 | 5930 | 88 | 67 | 595 | 4.8 | 700 | 7950 | 86 | 67 |
| | WR 110_30 | 30 | 66 | 93 | 590 | 6.7 | 700 | 7280 | 86 | 47 | 655 | 3.8 | 700 | 8000 | 84 | |
| | WR 110_45 | 45 | 59 | 62 | 645 | 5.1 | 700 | 8000 | 83 | 31 | 710 | 2.9 | 700 | 8000 | 80 | |
| | WR 110_60 | 60 | 60 | 47 | 615 | 3.7 | 700 | 8000 | 82 | 23.3 | 675 | 2.1 | 700 | 8000 | 79 | |
| | WR 110_69 | 69 | 58 | 41 | 580 | 3.0 | 700 | 8000 | 81 | 20.3 | 640 | 1.8 | 700 | 8000 | 77 | |
| | WR 110_90 | 90 | 44 | 31 | 755 | 3.3 | 700 | 8000 | 74 | 15.6 | 830 | 1.9 | 700 | 8000 | 70 | |
| | WR 110_120 | 120 | 45 | 23.3 | 720 | 2.4 | 700 | 8000 | 73 | 11.7 | 795 | 1.4 | 700 | 8000 | 68 | |
| | WR 110_138 | 138 | 43 | 20.3 | 645 | 1.9 | 700 | 8000 | 71 | 10.1 | 710 | 1.1 | 700 | 8000 | 66 | |
| | WR 110_168 | 168 | 40 | 16.7 | 645 | 1.7 | 700 | 8000 | 68 | 8.3 | 710 | 0.98 | 700 | 8000 | 63 | |
| | WR 110_192 | 192 | 37 | 14.6 | 570 | 1.3 | 700 | 8000 | 65 | 7.3 | 630 | 0.80 | 700 | 8000 | 60 | |
| | WR 110_240 | 240 | 33 | 11.7 | 505 | 1.0 | 700 | 8000 | 61 | 5.8 | 560 | 0.61 | 700 | 8000 | 56 | |
| | WR 110_300 | 300 | 29 | 9.3 | 495 | 0.85 | 700 | 8000 | 57 | 4.7 | 545 | 0.52 | 700 | 8000 | 51 | |
| | | | | $n_1 = 900 \text{ min}^{-1}$ | | | | | $n_1 = 500 \text{ min}^{-1}$ | | | | | | | |
| WR 110_21 | 21 | 70 | 43 | 645 | 3.4 | 700 | 8000 | 84 | 23.8 | 715 | 2.2 | 700 | 8000 | 82 | 67 | |
| WR 110_30 | 30 | 66 | 30 | 710 | 2.8 | 700 | 8000 | 81 | 16.7 | 785 | 1.7 | 700 | 8000 | 79 | | |
| WR 110_45 | 45 | 59 | 20.0 | 870 | 2.4 | 700 | 8000 | 77 | 11.1 | 950 | 1.5 | 700 | 8000 | 75 | | |
| WR 110_60 | 60 | 60 | 15.0 | 800 | 1.6 | 700 | 8000 | 77 | 8.3 | 850 | 1.0 | 700 | 8000 | 74 | | |
| WR 110_69 | 69 | 58 | 13.0 | 750 | 1.4 | 700 | 8000 | 75 | 7.2 | 820 | 0.86 | 700 | 8000 | 72 | | |
| WR 110_90 | 90 | 44 | 10.0 | 900 | 1.4 | 700 | 8000 | 66 | 5.6 | 1000 | 0.94 | 700 | 8000 | 62 | | |
| WR 110_120 | 120 | 45 | 7.5 | 870 | 1.1 | 700 | 8000 | 65 | 4.2 | 950 | 0.68 | 700 | 8000 | 61 | | |
| WR 110_138 | 138 | 43 | 6.5 | 800 | 0.87 | 700 | 8000 | 63 | 3.6 | 900 | 0.58 | 700 | 8000 | 59 | | |
| WR 110_168 | 168 | 40 | 5.4 | 775 | 0.72 | 700 | 8000 | 60 | 3.0 | 800 | 0.45 | 700 | 8000 | 55 | | |
| WR 110_192 | 192 | 37 | 4.7 | 685 | 0.59 | 700 | 8000 | 57 | 2.6 | 720 | 0.37 | 700 | 8000 | 53 | | |
| WR 110_240 | 240 | 33 | 3.8 | 590 | 0.44 | 700 | 8000 | 53 | 2.1 | 620 | 0.28 | 700 | 8000 | 48 | | |
| WR 110_300 | 300 | 29 | 3.0 | 570 | 0.37 | 700 | 8000 | 48 | 1.7 | 600 | 0.24 | 700 | 8000 | 44 | | |

