



**VILLANYMOTOROK CSERÉJÉVEL ÉS FREKVENCIÁVÁLTÓK ALKALMAZÁSÁVAL  
KAPCSOLATOS LÉNYEGES KÖVETELMÉNYEK  
AZ (EU) ECODESING ÉS A (HU) EKR RENDSZER SZEMPONTJAI SZERINT  
2024.09.01.**

**6.4 Motorok minimális hatásfok értékek IE3 hatékonysági kategóriához 50 Hz-en [%]**

| IE3                                   |           |        |        |        |
|---------------------------------------|-----------|--------|--------|--------|
| Névleges leadott teljesítmény PN (kW) | Pólusszám |        |        |        |
|                                       | 2         | 4      | 6      | 8      |
| 0,12 kW                               | 60,80%    | 64,80% | 57,70% | 50,70% |
| 0,18 kW                               | 65,90%    | 69,90% | 63,90% | 58,70% |
| 0,20 kW                               | 67,20%    | 71,10% | 65,40% | 60,60% |
| 0,25 kW                               | 69,70%    | 73,50% | 68,60% | 64,10% |
| 0,37 kW                               | 73,80%    | 77,30% | 73,50% | 69,30% |
| 0,40 kW                               | 74,60%    | 78,00% | 74,40% | 70,10% |
| 0,55 kW                               | 77,80%    | 80,80% | 77,20% | 73,00% |
| 0,75 kW                               | 80,70%    | 82,50% | 78,90% | 75,00% |
| 1,10 kW                               | 82,70%    | 84,10% | 81,00% | 77,70% |
| 1,50 kW                               | 84,20%    | 85,30% | 82,50% | 79,70% |
| 2,20 kW                               | 85,90%    | 86,70% | 84,30% | 81,90% |
| 3,00 kW                               | 87,10%    | 87,70% | 85,60% | 83,50% |
| 4,00 kW                               | 88,10%    | 88,60% | 86,80% | 84,80% |
| 5,50 kW                               | 89,20%    | 89,60% | 88,00% | 86,20% |
| 7,50 kW                               | 90,10%    | 90,40% | 89,10% | 87,30% |
| 11,00 kW                              | 91,20%    | 91,40% | 90,30% | 88,60% |
| 15,00 kW                              | 91,90%    | 92,10% | 91,20% | 89,60% |
| 18,50 kW                              | 92,40%    | 92,60% | 91,70% | 90,10% |
| 22,00 kW                              | 92,70%    | 93,00% | 92,20% | 90,60% |
| 30,00 kW                              | 93,30%    | 93,60% | 92,90% | 91,30% |
| 37,00 kW                              | 93,70%    | 93,90% | 93,30% | 91,80% |
| 45,00 kW                              | 94,00%    | 94,20% | 93,70% | 92,20% |
| 55,00 kW                              | 94,30%    | 94,60% | 94,10% | 92,50% |
| 75,00 kW                              | 94,70%    | 95,00% | 94,60% | 93,10% |
| 90,00 kW                              | 95,00%    | 95,20% | 94,90% | 93,40% |
| 110,00 kW                             | 95,20%    | 95,40% | 95,10% | 93,70% |
| 132,00 kW                             | 95,40%    | 95,60% | 95,40% | 94,00% |
| 160,00 kW                             | 95,60%    | 95,80% | 95,60% | 94,30% |
| 200-től 1 000 kW-ig                   | 95,80%    | 96,00% | 95,80% | 94,60% |