**ЭЛЕКТРОДВИГАТЕЛИ ПОСТОЯННОГО ТОКА 4ПНМ, 4ПБМ, 4ПФ, 2ПБВ, П, 4ПО, 4ПБ, 4ПН, 4ПФМ, ДП, ПБС, ПБСТ, 2ПН, 2ПБ, MP, MTA**

**Производства DYNAMO AD Болгария**

**Серии МТА 2; 3; 4; 5**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Тип электро- двигателя | Номинал. момент Nm | Максимальн. момент Nm | Максимальн. напряжение,В | Ток А | Частота вращения, об./мин.  |
| 2МТА | 13 | 80 | 100 | 26 | 1500 |
| 3МТА | 21 | 110 | 140 | 31 | 1500 |
| 4МТА | 23 | 120 | 170 | 28 | 1500 |
| 4МТВ | 30 | 170 | 190 | 30 | 1500 |
| 5МТ | 47 | 190 | 190 | 50 | 1500 |
| 2МТАС | 13 | 80 | 100 | 26 | 1500 |
| 3МТАС | 21 | 110 | 140 | 31 | 1500 |
| 4МТАС | 23 | 120 | 170 | 28 | 1500 |
| 4МТВС | 30 | 170 | 190 | 30 | 1500 |
| 5МТС | 47 | 190 | 190 | 50 | 1500 |



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| --- | --- | --- | --- |
| Тип | L30 | L35 | С резольвер |
| L30 | L35 |
| 1MT;-P | 401 | 33 | 414 | 46 |
| 1MT-C;-CP | 442 | 33 | 455 | 46 |
| 2MTA;-P | 412 | 33 | 425 | 46 |
| 2MTA;-C;-CP | 453 | 33 | 466 | 46 |
| 3MTA;-P | 435 | 33 | 448 | 46 |
| 3MTA-C;-CP | 476 | 33 | 489 | 46 |
| 4MTA;-P | 465 | 33 | 478 | 46 |
| 4MTA-C;-CP | 506 | 33 | 519 | 46 |
| 4MTB;-P | 474 | 33 | 487 | 46 |
| 4MTB-C;-CP | 528 | 33 | 541 | 46 |



**Параметры электродвигателей серии П 1,2,3-го габаритов**

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| Электрические машины изготавливаются с самовозбуждением.Электрические машины П11М, П12М, П21М, П22М, П31М, П32М имеют исполнение оболочки по степени защищенности IP23; машины ПБ11М, ПБ12М, ПБ21М, ПБ22М, ПБ31М, ПБ32М- IP54. |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| --- | --- |
| **Тип электродвигателя** | **Напряжение, В** |
| **50** | **75** | **110** | **220** |
| **N, кВт** | **I, А** | **n, мин-1** | **N, кВт** | **I, А** | **n, мин-1** | **N, кВт** | **I, А** | **n, мин-1** | **N, кВт** | **I, А** | **n, мин-1** |
| П11М | 0,5 | 14,50 | 2800 | 0,2 | 4,2 | 1740 | 0,14 | 2,04 | 1000 | 0,14 | 1,1 | 1000 |
| 0,5 | 9,9 | 2800 | 0,29 | 4,05 | 1500 | 0,29 | 2,04 | 1500 |
| 0,25 | 6,85 | 1500 | 0,2 | 4,2 | 1950 | 0,66 | 8,2 | 3000 | 0,66 | 4,1 | 3000 |
| ПБ11М |   |   |   |   |   |   | 0,15 | 2,0 | 1500 | 0,15 | 1,0 | 1500 |
| 0,33 | 3,8 | 3000 | 0,33 | 1,9 | 3000 |
| П12М |   |   |   |   |   |   | 0,21 | 3,15 | 1000 | 0,21 | 1,56 | 1000 |
| 0,44 | 5,7 | 1500 | 0,44 | 3,84 | 1500 |
| 0,95 | 11,3 | 3000 | 0,95 | 5,6 | 3000 |
| ПБ12М |   |   |   |   |   |   | 0,23 | 3,0 | 1500 | 0,23 | 1,45 | 1500 |
| 0,52 | 5,9 | 3000 | 0,52 | 3,0 | 3000 |
| П21М | 0,5 | 14,5 | 1400 | 0,5 | 9,6 | 1350 | 0,26 | 3,85 | 750 | 0,26 | 1,97 | 750 |
| 0,33 | 4,65 | 1000 | 0,33 | 2,36 | 1000 |
| 0,66 | 8,4 | 1500 | 0,66 | 4,18 | 1500 |
| 1,40 | 16,6 | 3000 | 1,4 | 8,3 | 3000 |
| ПБ21М |   |   |   |   |   |   | 0,24 | 3,1 | 1000 | 0,24 | 1,55 | 1000 |
| 0,35 | 4,5 | 1500 | 0,35 | 2,2 | 1500 |
| ПБ21М |   |   |   |   |   |   | 0,8 | 9,3 | 3000 | 0,8 | 4,7 | 3000 |
| 0,35 | 2,2 | 1500 |
| 0,38 | 2,3 | 1500 |
| П22М | 1,0 | 26,0 | 1500 | 0,9 | 15,6 | 1500 | 0,39 | 5,2 | 750 | 0,39 | 2,6 | 750 |
| 0,5 | 6,4 | 1000 | 0,5 | 3,2 | 1000 |
| 0,95 | 11,07 | 1500 | 0,95 | 5,54 | 1500 |
| 0,1 | 23,2 | 3000 | 2,1 | 11,6 | 3000 |
| ПБ22М |   |   |   |   |   |   | 0,3 | 4,5 | 1000 | 0,35 | 2,3 | 1000 |
| 0,5 | 6,0 | 1500 | 0,5 | 3,0 | 1500 |
| 1,0 | 11,5 | 3000 | 1,0 | 5,65 | 3000 |
| П31М | 0,45 | 13,0 | 450 |   |   |   | 0,55 | 7,4 | 750 | 0,55 | 3,6 | 750 |
| 0,75 | 9,6 | 1000 | 0,75 | 4,61 | 1000 |
| 1,4 | 16,6 | 1500 | 1,4 | 8,07 | 1500 |
| 3,0 | 33,2 | 3000 | 3,0 | 16,5 | 3000 |
| ПБ31М |   |   |   |   |   |   | 0,45 | 5,5 | 1000 | 0,45 | 2,75 | 1000 |
| 0,65 | 7,4 | 1500 | 0,65 | 3,75 | 1500 |
| 1,3 | 14,0 | 3000 | 1,3 | 7,0 | 3000 |
| П32М |   |   |   |   |   |   | 0,8 | 10,0 | 750 | 0,8 | 4,8 | 750 |
| 1,1 | 12,94 | 1000 | 1,1 | 6,53 | 1000 |
| 2,2 | 24,5 | 1500 | 2,2 | 12,2 | 1500 |
| 4,2 | 45,0 | 3000 | 4,2 | 22,4 | 3000 |
| ПБ32М |   |   |   |   |   |   | 0,65 | 7,4 | 1000 | 0,65 | 3,7 | 1000 |
| 1,0 | 11,0 | 1500 | 1,0 | 5,5 | 1500 |
| 1,9 | 20,0 | 3000 | 1,9 | 10,0 | 3000 |

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**Основные параметры генераторов**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| **Тип генератора** | **Напряжение, В** |
| **115** | **230** |
| **N, кВт** | **I, А** | **n, мин-1** | **N, кВт** | **I, А** | **n, мин-1** |
| П21М | 1,25 | 10,9 | 2850 | 1,25 | 5,4 | 2850 |
| П22М | 1,75 | 15,2 | 2850 | 1,75 | 7,6 | 2850 |
| П31М | 1,0 | 8,70 | 1450 | 1,0 | 4,35 | 1450 |
| П31М | 2,6 | 22,6 | 2850 | 2,6 | 11,2 | 2850 |
| П32М | 3,8 | 33,0 | 2850 | 3,8 | 16,5 | 2850 |
| П32М | 1,5 | 13,6 | 1450 | 1,5 | 6,5 | 1450 |

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**Параметры электродвигателя серии П 4-го габарита**

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| Электрические машины изготовляются со смешанным возбуждением (возможно изготовление с независимым возбуждением) на напряжение 110В или 220В.По способу монтажа электрические машины имеют конструктивные исполнения IM1001,IM2101,IM2111IM2131,IM3601,IM3631,IM3611.Электродвигатели могут быть изготовлены с присоединенным тахогенератором ТМГ-30П. |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| **Тип электродвигателя** | **Напряжение, В** |
| **110** | **220** | **440** |
| **N, кВт** | **I, А** | **n, мин-1** | **N, кВт** | **I, А** | **n, мин-1** | **N, кВт** | **I, А** | **n, мин-1** |
| П41УХЛ4 | 1,0 | 13,3 | 750 | 1,0 | 6,65 | 750 |   |   |   |
| 1,5 | 18,5 | 1000 | 1,5 | 9,4 | 1000 | 1,5 | 4,8 | 1000 |
| 3,2 | 37,5 | 1500 | 3,2 | 18,4 | 1500 | 2,75 | 7,8 | 1500 |
| 4,2 | 47,0 | 2200 | 4,2 | 23,4 | 2200 |   |   |   |
| 6,0 | 67,5 | 3000 | 6,0 | 33,3 | 3000 |   |   |   |
| ПБ41У2 | 0,7 | 8,55 | 1000 | 0,7 | 4,3 | 1000 |   |   |   |
| 1,2 | 13,5 | 1500 | 1,2 | 6,7 | 1500 |
| 2,3 | 25,4 | 3000 | 2,3 | 12,7 | 3000 |
| П41О4 | 0,8 | 10,4 | 750 | 0,8 | 5,05 | 750 |   |   |   |
| 1,2 | 15 | 1000 | 1,2 | 7,5 | 1000 | 1,2 | 3,8 | 1000 |
| 2,3 | 75,5 | 1500 | 2,3 | 13,7 | 1500 | 2,3 | 6,7 | 1500 |
| 4,8 | 55,25 | 3000 | 4,8 | 27,3 | 3000 |   |   |   |
| П42УХЛ4 | 1,5 | 18,7 | 750 | 1,5 | 9,55 | 750 |   |   |   |
| 2,2 | 26,3 | 1000 | 2,2 | 13,1 | 1000 | 2,0 | 5,9 | 1000 |
| 3,8 | 43,2 | 1500 | 3,8 | 21,4 | 1500 | 3,5 | 9,78 | 1500 |
| 5,3 | 58,8 | 2200 | 5,3 | 24,9 | 2200 |   |   |   |
| 7,4 | 79,2 | 3000 | 7,4 | 39,8 | 3000 |   |   |   |
| ПБ42У2 | 1,0 | 11,8 | 1000 | 1,0 | 5,9 | 1000 |   |   |   |
| 1,5 | 16,8 | 1500 | 1,5 | 8,4 | 1500 |
| 3,0 | 32,8 | 3000 | 3,0 | 16,4 | 3000 |
| П42О4 | 1,2 | 14,7 | 750 | 1,2 | 7,35 | 750 |   |   |   |
| 1,7 | 21,0 | 1000 | 1,7 | 10,5 | 1000 | 1,7 | 5,22 | 1000 |
| 2,9 | 33,0 | 1500 | 2,9 | 16,5 | 1500 | 2,9 | 8,25 | 1500 |
| 5,5 | 61,0 | 3000 | 5,5 | 30,5 | 3000 |   |   |   |

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| **Тип** | **N (кВт)** | **U (B)** | **n (мин-1)** |
| П42/160;ПБ42/160 | 2,2-8,0 | 110,220,240 | 750-3000 |

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**Основные параметры генераторов**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
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| **Тип генератора** | **Напряжение, В** |
| **115** | **230** | **460** |
| **N, кВт** | **I, А** | **n, мин-1** | **N, кВт** | **I, А** | **n, мин-1** | **N, кВт** | **I, А** | **n, мин-1** |
| П41УХЛ4 | 2,7 | 23,4 | 1450 | 2,7 | 11,7 | 1450 | 2,8 | 6,1 | 1450 |
| 6,2 | 53,8 | 2850 | 6,2 | 26,9 | 2850 |
| П41О4 | 2,2 | 19,14 | 1450 | 2,2 | 9,57 | 1450 | 2,2 | 4,78 | 1450 |
| 5,0 | 43,4 | 2850 | 5,0 | 21,7 | 2850 |
| П42УХЛ4 | 3,2 | 27,8 | 1450 | 3,2 | 12,9 | 1450 | 2,8 | 6,1 | 1450 |
| 7,2 | 62,6 | 2850 | 7,2 | 31,3 | 2850 |
| П42О4 | 2,5 | 22,6 | 1450 | 2,6 | 11,3 | 1450 | 2,6 | 5,65 | 1450 |
|  |  |  |  |  |  |

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