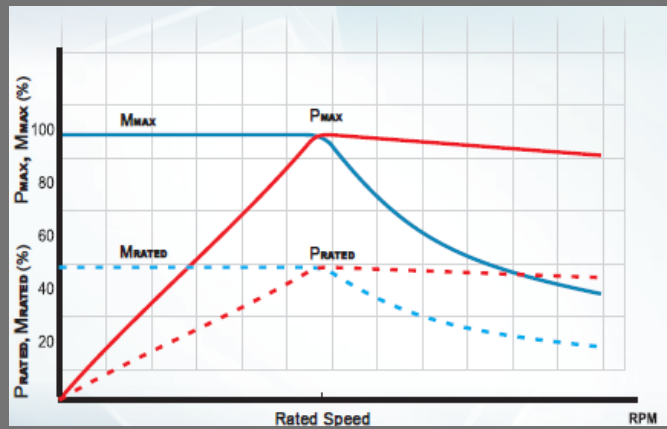


# Brushless DC motors series

- ✓ AL180-PM *permanent magnet*
- ✓ AL180-I *induction*

## INOVATIONS



| Item            | Battery      | Max torque | Rated torque | Max power | Rated power | L    | D   | Max speed | Rated speed | efficiency | mass | protection | Liquid cooling |    |
|-----------------|--------------|------------|--------------|-----------|-------------|------|-----|-----------|-------------|------------|------|------------|----------------|----|
|                 | V            | Nm         | Nm           | kW        | kW          | mm   | mm  | RPM       | RPM         | %          | kg   |            | L/min          |    |
| series AL180-PM | AL180-PM SSS | 65         | 95           | 47        | 30          | 150  | 213 | 9000      | 3000        | 92         | 15   | IP 65      | 4              |    |
|                 | AL180-PM SS  | 80         | 140          | 80        | 40          | 175  | 213 | 9000      | 3000        | 92         | 19   | IP 65      | 5              |    |
|                 | AL180-PM S   | 144        | 230          | 116       | 65          | 225  | 213 | 9000      | 2700        | 92         | 27   | IP 65      | 7              |    |
|                 | AL180-PM     | 250        | 280          | 140       | 80          | 40   | 250 | 213       | 9000        | 2700       | 93,5 | 32         | IP 65          | 8  |
|                 | AL180-PM L   | 230        | 320          | 160       | 100         | 50   | 275 | 213       | 8000        | 3000       | 93,5 | 37         | IP 65          | 10 |
|                 | AL180-PM LL  | 285        | 415          | 207       | 130         | 65   | 325 | 213       | 7500        | 3000       | 94   | 45         | IP 65          | 12 |
| AL180-PM LLL    | 310          | 480        | 240          | 150       | 75          | 375  | 213 | 7500      | 3000        | 94         | 50   | IP 65      | 15             |    |
| series AL180-I  | AL180-I SSS  | 65         | 80           | 43        | 25          | 13,5 | 150 | 213       | 9000        | 3000       | 90   | 18         | IP 65          | 4  |
|                 | AL180-I SS   | 80         | 120          | 63        | 35          | 20   | 175 | 213       | 9000        | 3000       | 90   | 23         | IP 65          | 5  |
|                 | AL180-I S    | 144        | 200          | 106       | 55          | 30   | 225 | 213       | 9000        | 2700       | 90   | 33         | IP 65          | 7  |
|                 | AL180-I      | 250        | 245          | 140       | 65          | 40   | 250 | 213       | 9000        | 2700       | 91   | 38         | IP 65          | 8  |
|                 | AL180-I L    | 230        | 275          | 143       | 80          | 45   | 275 | 213       | 9000        | 3000       | 91   | 43         | IP 65          | 10 |
|                 | AL180-I LL   | 285        | 355          | 185       | 105         | 58   | 325 | 213       | 9000        | 3000       | 92   | 55         | IP 65          | 12 |
| AL180-I LLL     | 310          | 400        | 207          | 120       | 65          | 375  | 213 | 9000      | 3000        | 92         | 60   | IP 65      | 15             |    |

*Rated power and rated torque- S1 ; Max. power and max. torque- S2- 30 sec.*

