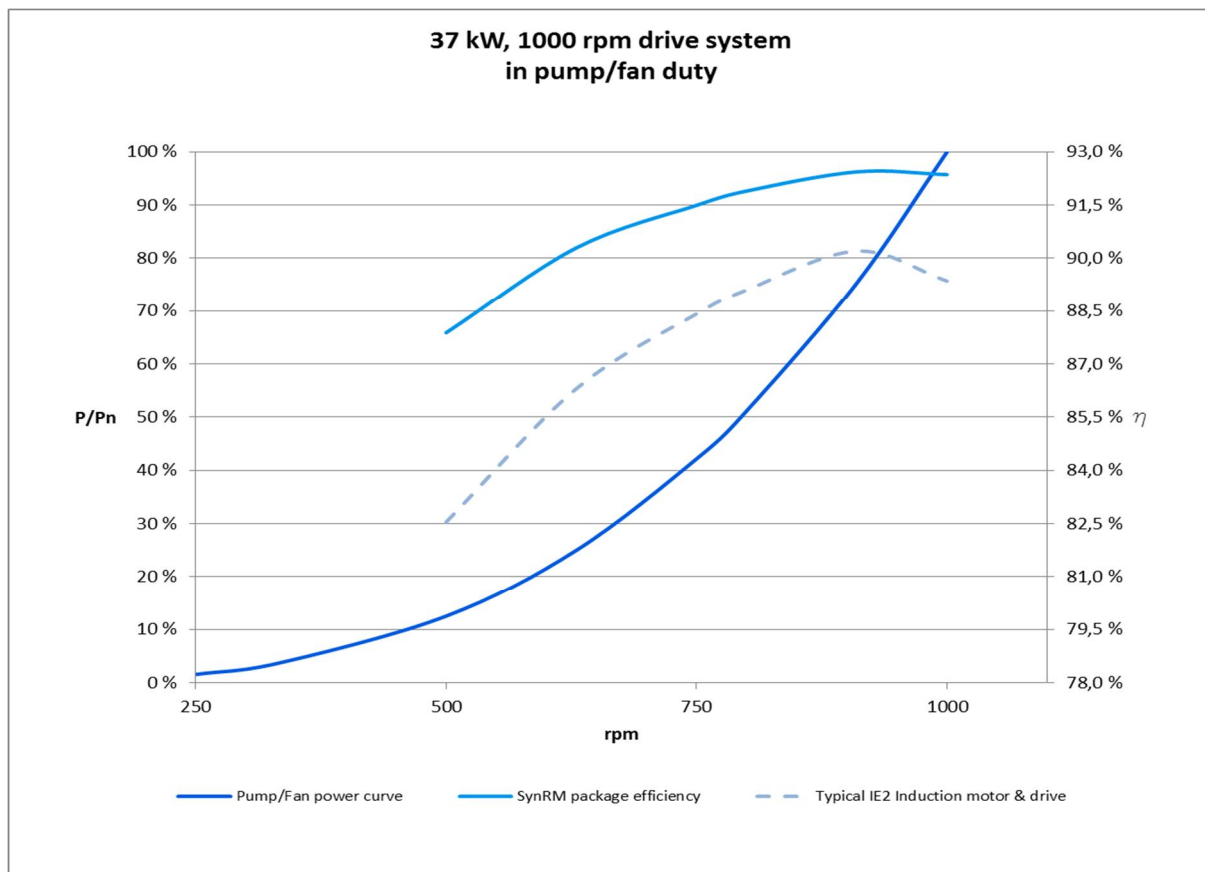


# Manufacturer's statement

## ACS880-01 and IE4 SynRM motor package efficiency

**Drive:** ACS880-01-085A-3

**Motor:** M3BL 250SMA, 3GBL252103-ASC, P<sub>n</sub> 37 kW, 1000 rpm



| Speed   | Speed rpm | P/P <sub>n</sub> | Package efficiency |
|---------|-----------|------------------|--------------------|
| 50 %**  | 500       | 13 %**           | 87.9 %             |
| 63 %    | 630       | 25 %             | 90.3 %             |
| 75 %    | 750       | 42 %             | 91.5 %             |
| 80 %    | 800       | 51 %             | 91.9 %             |
| 91 %    | 910       | 75 %             | 92.4 %             |
| 100 %** | 1000      | 100 %**          | 92.4 %*            |

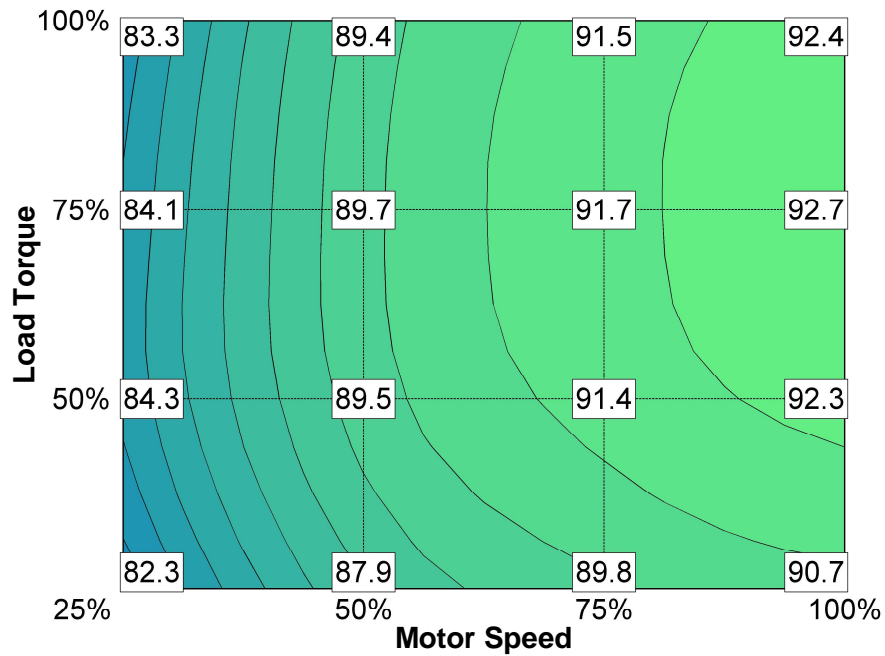
\*Estimated tolerance according to IEC 60034-1:

≤150kW: 0.15 x (100 - package efficiency (%)) at the nominal point

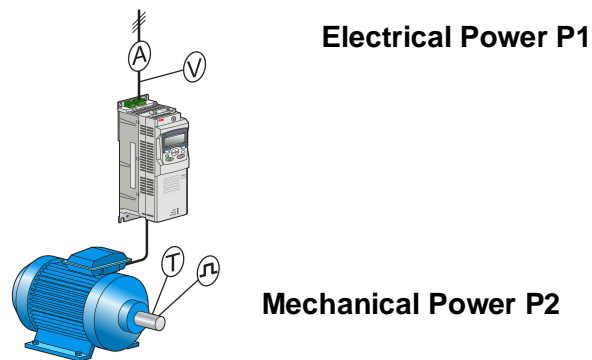
>150kW: 0.10 x (100 - package efficiency (%)) at the nominal point

\*\*Measurement points according to EN 50598-2

Package efficiency [%] for applications with other load characteristics:



**Points of measurement**



**Efficiency  $\eta = P2/P1$**

Efficiency measurements were made at:

|  |                                       |   |                                       |
|--|---------------------------------------|---|---------------------------------------|
|  | ABB verification laboratory, Vaasa    | X | ABB verification laboratory, Västerås |
|  | ABB verification laboratory, Helsinki |   |                                       |