

# MJB 560 LB 4

50 Hz 1500 rpm

|                    |                     |            |
|--------------------|---------------------|------------|
| Wickelschema       | Winding Code        | 80         |
| Wickelschritt      | Winding Pitch       | 2/3        |
| Übertemperatur     | Temperature Rise    | F          |
| Isolationsklasse   | Insulation          | H          |
| Schutzart          | Protection Degree   | IP 23      |
| Leistungsfaktor    | Power Factor        | 0,8        |
| Schleuderdrehzahl  | Overspeed           | 2250 rpm   |
| Klemmenzahl        | Number of Terminals | 6          |
| Kühllufttemperatur | Cooling Temperature | 40 °C      |
| Kühlart            | Method of Cooling   | IC 01      |
| Kühlluftmenge      | Cooling Air Volume  | 3,00 m³/s  |
| Aufstellhöhe       | Altitude at Site    | 1000 m     |
| Gewicht            | Weight              | 7250 kg    |
| Trägheitsmoment    | Inertia             | 98,00 kgm² |
| Gesamtverluste     | Total losses        | 69,4 kW    |
| Strahlungswärme    | Radiated Heat       | 3,5 kW     |

|                                 |                        |                           |       |       |                             |     |      |
|---------------------------------|------------------------|---------------------------|-------|-------|-----------------------------|-----|------|
| FREQUENZ                        | FREQUENCY              |                           |       |       |                             | Hz  | 50   |
| SPANNUNG                        | VOLTAGE (± 10%)        |                           |       |       |                             | V   | 400  |
| STROM                           | CURRENT                |                           |       |       |                             | A   | 3581 |
| NENNLEISTUNG                    | RATED POWER @ 0,8 p.f. |                           |       |       |                             | kVA | 2481 |
| LEISTUNG - RATING               | kVA                    | 2481                      | 2101  | 2000  | 2103                        |     |      |
| LEISTUNGSFAKTOR – POWER FACTOR  | p.f.                   | 0,8                       | 0,95  | 1,0   | 0,95                        |     |      |
| WIRKUNGSGRAD - EFFICIENCY - (%) | 110%                   | 96,61                     | 97,20 | 97,40 | 97,25                       |     |      |
|                                 | 100%                   | 96,62                     | 97,16 | 97,35 | 97,23                       |     |      |
|                                 | 90%                    | 96,60                     | 97,10 | 97,27 | 97,14                       |     |      |
|                                 | 75%                    | 96,48                     | 96,91 | 97,07 | 96,98                       |     |      |
|                                 | 50%                    | 95,82                     | 96,14 | 96,28 | 96,23                       |     |      |
|                                 | 25%                    | 93,19                     | 93,39 | 93,52 | 93,55                       |     |      |
|                                 |                        | übererregt<br>overexcited |       |       | untererregt<br>underexcited |     |      |

|                                              |                                         |                          |       |          |      |
|----------------------------------------------|-----------------------------------------|--------------------------|-------|----------|------|
|                                              |                                         |                          |       | unsat    | sat  |
| <b>Reaktanzen - Reactances (%)</b>           | Synchron, d-Achse                       | Synchronous, d-axis      | Xd    | 230      | 211  |
|                                              | Synchron, q-Achse                       | Synchronous, q-axis      | Xq    | 129      | 123  |
|                                              | Transient, d-Achse                      | Transient, d-axis        | Xd'   | 25,7     | 24,6 |
|                                              | Transient, q-Achse                      | Transient, q-axis        | Xq'   | 129      | 123  |
|                                              | Subtransient, d-Achse                   | Subtransient, d-axis     | Xd''  | 14,3     | 12,4 |
|                                              | Subtransient, q-Achse                   | Subtransient, q-axis     | Xq''  | 14,9     | 12,9 |
|                                              | Invers-System                           | Invers-sequence          | X2    | 14,6     | 12,7 |
|                                              | Null-System                             | Zero-Sequence            | X0    | 4,8      | 4,2  |
| <b>Widerstände - Resistances (%)</b>         | Null-System                             | Zero-Sequence            | R0    | 0,80     |      |
|                                              | Mit-System                              | Positive-Sequence        | R1    | 0,74     |      |
|                                              | Invers-System                           | Negative-Sequence        | R2    | 1,07     |      |
|                                              | Stator (@ 20°C)                         | Armature (@ 20°)         | Ra    | 0,53     |      |
| <b>Zeitkonstanten - Time constants (s)</b>   | Transient, d-Achse                      | Transient, d-axis (1)    | T'd0  | 4,900    |      |
|                                              | Transient, d-Achse                      | Transient, d-axis (2)    | Td'   | 0,550    |      |
| (1) Leerlauf - Open-circuit                  | Subtransient, d-Achse                   | Subtransient, d-axis (2) | Td''  | 0,025    |      |
| (2) Kurzschluss - Short-circuit              | Gleichstrom                             | Armature                 | Ta    | 0,056    |      |
| <b>Kurzschlussdaten - Short circuit data</b> |                                         |                          |       |          |      |
| Anfangskurzschlusswechselstrom 3~ (kA)       | Initial short circuit current 3~ (kA)   |                          | Ik''  | 37,1     |      |
| Stosskurzschlussstrom 3~ (kA)                | Max. peak current 3~ (kA)               |                          | Is    | 76,2     |      |
| Dauerkurzschlussstrom 3~ (kA)                | Sustained short circuit current 3~ (kA) |                          | Ik    | 13,4     |      |
| Leerlauf-Kurzschluss-Verhältnis              | Short circuit ratio                     |                          | Kc    | 0,47     |      |
| Stosskurzschlussmoment 2~ (kNm)              | Initial short circuit torque 2~ (kNm)   |                          | Mk2   | 189,3    |      |
| TVD bei Aufschaltung der Nennlast (%)        | TVD at rated load step (%)              |                          | ΔU    | 22,0     |      |
| Max. Laststoss für ΔU = 15 %                 | Max. load step at low PF for TVD = 15 % |                          | ΔSmax | 1505 kVA |      |

Vorschriften - Standards : VDE 0530 ; IEC 60034-1 ; BS 4999-5000

2054 kWmech

Wenn der Generator nach UL gebaut und zertifiziert wird, gilt das selbe Datenblatt.  
If alternator is manufactured and certified acc. to UL, the same datasheet is valid.

Date : 05-Mar-2013