

**DIRECT CURRENT MOTORS "AF" LIGHT LINE**  
IP23 execution, drip-proof, self-ventilated

POWER EXPRESSED in **kW** and **CV**

| TYPE             | SPEED IN REV/MIN |      |      |      |      |      |      |      |      |      | Highest excitation power<br>Watt |
|------------------|------------------|------|------|------|------|------|------|------|------|------|----------------------------------|
|                  | 1500             |      | 2000 |      | 2500 |      | 3000 |      | 4000 |      |                                  |
|                  | kW               | CV   | kW   | CV   | kW   | CV   | kW   | CV   | kW   | CV   |                                  |
| <b>AF 71/80</b>  | 0,3              | 0,42 | 0,4  | 0,55 | 0,53 | 0,72 | 0,58 | 0,8  | 0,77 | 1,05 | 40                               |
| <b>AF 71/105</b> | 0,4              | 0,55 | 0,54 | 0,74 | 0,7  | 0,95 | 0,73 | 1    | 1    | 1,36 | 50                               |
| <b>AF 40</b>     | 0,51             | 0,7  | 0,66 | 0,9  | 0,8  | 1,1  | 0,88 | 1,2  | 1,32 | 1,8  | 64                               |
| <b>AF 50</b>     | 0,66             | 0,9  | 0,82 | 1,12 | 0,96 | 1,3  | 1,18 | 1,6  | 1,47 | 2    | 70                               |
| <b>AF 75</b>     | 0,97             | 1,32 | 1,4  | 1,9  | 1,18 | 2,25 | 1,84 | 2,5  | -    | -    | 95                               |
| <b>AF 100</b>    | 1,25             | 1,7  | 1,7  | 2,3  | 2    | 2,75 | 2,3  | 3,15 | -    | -    | 110                              |
| <b>AF 100R</b>   | 1,47             | 2    | 1,9  | 2,6  | 2,28 | 3,1  | 2,65 | 3,6  | -    | -    | 160                              |

ARMOUR TENSION FROM 24 TO 140V  
FORM FACTOR = 1

| TYPE             | SPEED IN REV/MIN |     |      |      |      |      |      |      |      |     | Highest excitation power<br>Watt |
|------------------|------------------|-----|------|------|------|------|------|------|------|-----|----------------------------------|
|                  | 1500             |     | 2000 |      | 2500 |      | 3000 |      | 4000 |     |                                  |
|                  | kW               | CV  | kW   | CV   | kW   | CV   | kW   | CV   | kW   | CV  |                                  |
| <b>AF 71/80</b>  | 0,22             | 0,3 | 0,29 | 0,4  | 0,36 | 0,5  | 0,41 | 0,56 | 0,51 | 0,7 | 40                               |
| <b>AF 71/105</b> | 0,28             | 0,4 | 0,38 | 0,5  | 0,47 | 0,65 | 0,54 | 0,73 | 0,67 | 0,9 | 50                               |
| <b>AF 40</b>     | 0,51             | 0,7 | 0,59 | 0,8  | 0,67 | 0,92 | 0,73 | 1    | 0,88 | 1,2 | 64                               |
| <b>AF 50</b>     | 0,66             | 0,9 | 0,77 | 1,05 | 0,88 | 1,2  | 0,96 | 1,3  | 1,18 | 1,6 | 70                               |
| <b>AF 75</b>     | 0,96             | 1,3 | 1,25 | 1,7  | 1,47 | 2    | 1,7  | 2,3  | -    | -   | 95                               |
| <b>AF 100</b>    | 1,25             | 1,7 | 1,6  | 2,2  | 1,84 | 2,5  | 2    | 2,8  | -    | -   | 110                              |
| <b>AF 100R</b>   | 1,39             | 1,9 | 1,76 | 2,4  | 2    | 2,8  | 2,35 | 3,2  | -    | -   | 160                              |

ARMOUR TENSION FROM 110 TO 220V  
FORM FACTOR = 1

**DOWNGRADING OF THE EMITTED POWERS FOR STEADY TORQUE**

| Speed adjusting ratio for continuous service | Required power compared to the catalogue one | List power compared to the required one |
|--|--|---|
| <b>from 1 to 5</b>                           | <b>80%</b>                                   | <b>125%</b>                             |
| <b>from 1 to 10</b>                          | <b>70%</b>                                   | <b>143%</b>                             |
| <b>from 1 to 20 or more</b>                  | <b>67%</b>                                   | <b>150%</b>                             |

NOTE - The value referred to the delivered power is influenced by the type of feeding.  
Size of the machine must be adapted according to the following rectifying factor:

|                                  |                          |             |
|----------------------------------|--------------------------|-------------|
| FEEDING FROM THREE-PHASE BRIDGE  | - fully controlled=      | <b>1</b>    |
| FEEDING FROM THREE-PHASE BRIDGE  | - partially controlled = | <b>1,15</b> |
| FEEDING FROM SINGLE-PHASE BRIDGE | - partially controlled = | <b>1,4</b>  |