

DIRECT CURRENT MOTORS "APF" HEAVY LINE
IP23 execution, dripproof, self-ventilated

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

| TYPE | SPEED IN REV/MIN | | | | | | | | | | | | Highest excitation power |
|-------------------|------------------|------|------|------|------|------|------|------|------|------|-------|------|--------------------------|
| | 1000 | | 1250 | | 1600 | | 2000 | | 2500 | | 3150 | | |
| | kW | CV | kW | CV | kW | CV | kW | CV | kW | CV | kW | CV | Watt |
| APF 80/ 7 | 0,33 | 0,45 | 0,44 | 0,6 | 0,55 | 0,75 | 0,73 | 1 | 0,96 | 1,3 | 1,17 | 1,6 | 40 |
| APF 80/10 | 0,46 | 0,63 | 0,62 | 0,85 | 0,82 | 1,12 | 1,03 | 1,4 | 1,4 | 1,9 | 1,7 | 2,3 | 48 |
| APF 80/14 | 0,66 | 0,9 | 0,87 | 1,19 | 1,17 | 1,6 | 1,47 | 2 | 1,95 | 2,65 | 2,6 | 3,55 | 55 |
| APF 80/16 | 0,73 | 1 | 1 | 1,36 | 1,32 | 1,8 | 1,7 | 2,3 | 2,2 | 3 | 2,95 | 4 | 65 |
| APF 104/10 | 1,25 | 1,7 | 1,64 | 2,24 | 2,06 | 2,8 | 2,75 | 3,75 | 3,67 | 5 | 4,63 | 6,3 | 70 |
| APF 104/14 | 1,73 | 2,36 | 2,31 | 3,15 | 2,94 | 4 | 3,9 | 5,3 | 5,22 | 7,1 | 6,61 | 9 | 80 |
| APF 104/16 | 1,98 | 2,7 | 2,65 | 3,6 | 3,38 | 4,6 | 4,41 | 6 | 5,9 | 8 | 7,35 | 10 | 90 |
| APF 120/12 | 2,46 | 3,35 | 3,12 | 4,25 | 4,11 | 5,6 | 5,51 | 7,5 | 7,35 | 10 | 9,18 | 12,5 | 120 |
| APF 120/16 | 3,3 | 4,5 | 4,11 | 5,6 | 5,51 | 7,5 | 7,35 | 10 | 9,18 | 12,5 | 11,76 | 16 | 135 |

ARMOUR TENSION <320V
FORM FACTOR = 1

| TYPE | SPEED IN REV/MIN | | | | | | | | | | | | Highest excitation power |
|-------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|--------------------------|
| | 1000 | | 1250 | | 1600 | | 2000 | | 2500 | | 3150 | | |
| | kW | CV | kW | CV | kW | CV | kW | CV | kW | CV | kW | CV | Watt |
| APF 80/ 7 | 0,3 | 0,4 | 0,36 | 0,5 | 0,44 | 0,6 | 0,55 | 0,75 | 0,69 | 0,95 | 0,86 | 1,18 | 40 |
| APF 80/10 | 0,41 | 0,56 | 0,52 | 0,71 | 0,62 | 0,85 | 0,78 | 1,06 | 0,97 | 1,32 | 1,24 | 1,7 | 48 |
| APF 80/14 | 0,58 | 0,8 | 0,73 | 1 | 0,86 | 1,18 | 1,1 | 1,5 | 1,39 | 1,9 | 1,73 | 2,36 | 55 |
| APF 80/16 | 0,67 | 0,92 | 0,84 | 1,15 | 1 | 1,36 | 1,25 | 1,7 | 1,6 | 2,18 | 2 | 2,72 | 65 |
| APF 104/10 | 1,03 | 1,4 | 1,32 | 1,8 | 1,64 | 2,24 | 2,05 | 2,8 | 2,46 | 3,35 | 3,3 | 4,5 | 70 |
| APF 104/14 | 1,47 | 2 | 1,83 | 2,5 | 2,31 | 3,15 | 2,75 | 3,75 | 3,49 | 4,75 | 4,41 | 6 | 80 |
| APF 104/16 | 1,7 | 2,3 | 2,1 | 2,85 | 2,65 | 3,6 | 3,16 | 4,3 | 4 | 5,4 | 5 | 6,85 | 90 |
| APF 120/12 | 2,06 | 2,8 | 2,6 | 3,55 | 3,3 | 4,5 | 3,9 | 5,3 | 4,92 | 6,7 | 6,24 | 8,5 | 120 |
| APF 120/16 | 2,94 | 4 | 3,67 | 5 | 4,41 | 6 | 5,51 | 7,5 | 6,98 | 9,5 | 8,67 | 11,8 | 135 |

ARMOUR TENSION >320V - UP TO 440V
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 |
|----------------------------------------------|----------------------------------------------|-----------------------------------------|
| da/from 1 a/to 5 | 80% | 125% |
| da/from 1 a/to 10 | 70% | 143% |
| da/from 1 a/to 20 o più/or more | 67% | 150% |

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= **1**
 FEEDING FROM THREE-PHASE BRIDGE partially controlled = **1,15**
 FEEDING FROM SINGLE-PHASE BRIDGE partially controlled = **1,4**