



### MAGNETIC COUPLINGS AND MAGNETIC FRICTION LOSSES

**A. MCA CENTRIFUGAL PUMPS ARE BASICALLY DIVIDED INTO TWO MAIN RANGES, RANGE I° AND RANGE II°. WITHIN EACH RANGE, THERE ARE A NUMBER OF INTERCHANGEABLE COMPONENTS.**

**OVERALL DIMENSIONS OF MAGNETS - INTERNAL AND EXTERNAL - ARE IDENTICAL FOR ALL THE PUMPS OF THE SAME RANGE, BUT, BECAUSE OF THE DIFFERENT TRANSMISSIBLE POWER, EACH MAGNET IS MARKED WITH AN ALPHABETICAL LETTER (A, B, C...) THAT IDENTIFIES THE MAGNET COUPLINGS, THE TRANSMISSIBLE POWER AND THE MAGNETIC FRICTION LOSSES**

**TO CALCULATE BRAKE HORSE POWER (BHP)  
MAGNETIC LOSSES HAVE TO BE ADDED  
TO THE HYDRAULIC POWER AT RUN-OUT  
(NON-OVERLOADING)**

### TWO POLES (3500 RPM)

INT. MAG.	EXT. MAG.	PUMP RANGE	TORQUE MAX daNm	POWER RATING		LOSS 50Hz		LOSS 60Hz	
				Kw	HP	Kw	HP	Kw	HP
A	A	I°	1.95	2.2	3.0	1.1	1.5	1.7	2.3
A	B	I°	2.80	3.0	4.0	1.3	1.8	2.0	2.8
B	B	I°	4.40	5.5	7.5	1.5	2.0	2.3	3.2
B	C	I°	*2.40	7.5	10.0	1.9	2.6	3.1	4.1
C	C	I°	*4.80	15.0	20.0	2.2	3.0	3.5	4.8
-	-	-	-	-	-	-	-	-	-
F	F	II°	*7.10	22.0	30.0	3.0	4.0	4.7	6.4
F	G	II°	*9.5	30.0	40.0	3.9	5.3	6.0	8.2
G	G	II°	*12.0	37.0	50.0	4.5	6.1	7.0	9.5
H	H	II°	*23.8	75.0	-100	7.0	9.2	10.8	14.2

NOTE:

\* DELTA/STAR STARTING \*

ABOVE FIGURES ARE VALID FOR TWO POLE (3500 RPM) MOTORS ONLY.