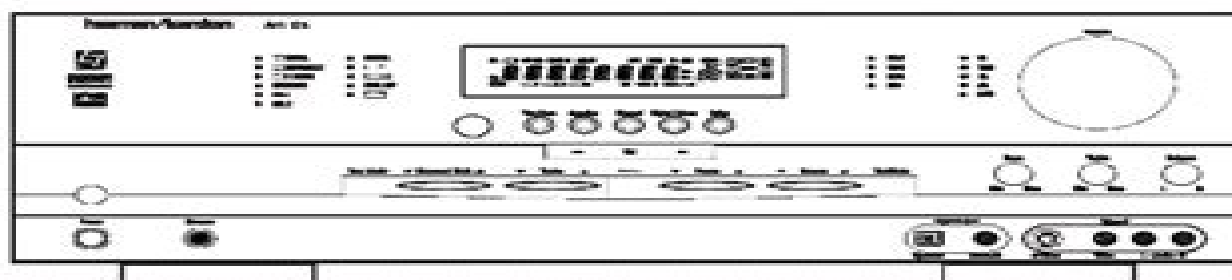


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magnetic length 2 340 m iron length 2 274 m total length 2 47 m current 643 a turns 80 conductor 13 13 mm

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$b = \gamma m v^2$  where  $m$  is relativistic mass

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web the magnetic field that results from powering the coils is present whether the beam is there or not we are interested in finding the field in this aperture and also in knowing how to build a magnet to get the desired field typically accelerators and beamlines have magnets that serve individual functions

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web number of conductor turns in a coil is  $n$  magnetic field strength  $h$  1 oe 103 4 a m 79 58 a m mmf magnetic flux 1 wb 1 vs  
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web where  $h$  is the strength of the magnetic field in ampere turns metre at  $m$   $n$  is the number of turns of the coil  $i$  is the  
current flowing through the coil in amps  $l$  is the length of the coil in metres  $m$  then to summarise the strength or intensity  
of a coils magnetic field depends on the following factors the number of turns of wire within the coil

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