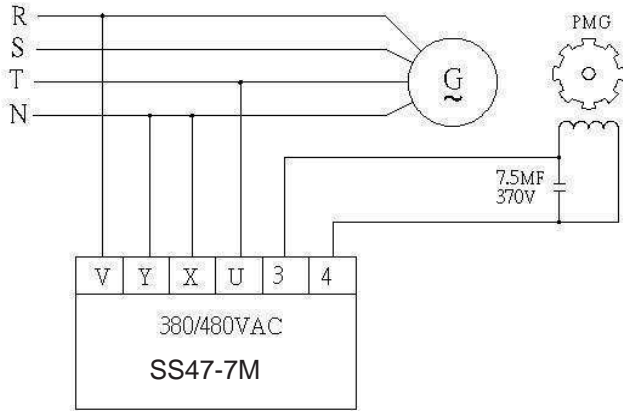


# Use SS47-7M in place of PM100 AVR



PM100A	EA42-7(M)
E1 = U	INPUT MAX 277VAC
E2 = X	
E2 = Y	INPUT MAX 277VAC
E3 = V	

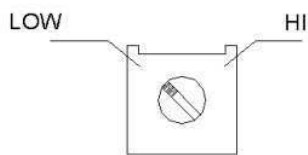
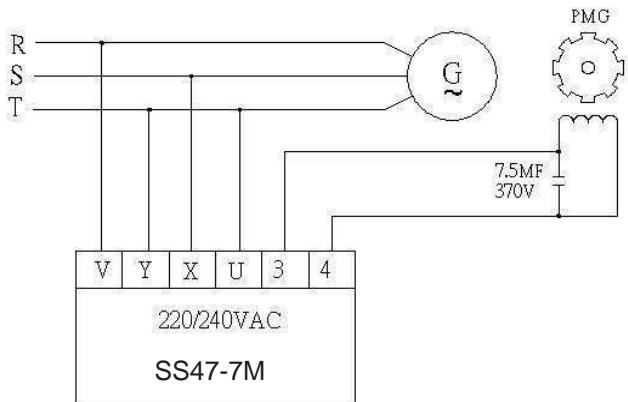
Original PM100 is used in 1 or 3 phase alternators.  
 If used with 3 phase sensing voltage feed lines into E1, E2, E3 (one E2 lead is null)  
 If used with 1 phase sensing voltage feed lines into E1, E2 and connect jumper between E2, E3  
 --See Marathon drawing at <http://www.marathonelectric.com/generators/connect/PM1001.pdf>

To replace the PM100 with the SS42-7M

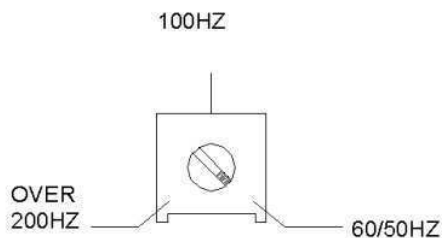
1) If 3 phase 200~240V (R,S,T)  
 wiring R-->U, S-->Y, T-->X & V  
 = E1-->U, E2-->Y, E3-->X & V

2) If 3 phase 380 ~ 480V  
 The alternator must have neutral point N  
 Interwiring R-->U, T-->V, N-->Y & X  
 = E1-->U, E3-->V, N-->Y & X  
 E2 must be isolated avoid E2 conducting to any metal.

3) PMG is wired to lead 3 and 4 of SS42-7M  
 Keep original capacitor connected to the 2 wire of PMG output.  
 The capacitor is a big (5~7.5MF 370V) and it is connected to leads 3 & 4 of PM100  
 The SS42-7M has no additional lead to connect capacitor therefore move connection to terminal 3 & 4  
 4) Add one 3A 600V fuse ahead of either lead 3 or 4 wiring



U/F



HF

Set HF to Max CCW  
 for PM100 Use

fig-2