Electrical Engineering Technology

ICPs - Pave and Power Factor

A CIRCUIT DISSIPATES 100W (PAUE) AT 150V (VEFF) + 2A (IEFF). (1) FIND: THE POWER FACTOR $F_p = Cos(\Theta) = PAVE = 100W$ $V_{RMS} I_{RMS} = (150V)(2A)$.. Fp = Cos(0) = 0.333 (2) IS THE LOAD RESISTIVE, REACTIVE OR BOTH? FIND $\Theta = |\Theta v - \Theta_i|$ IN DECREES Cos(0) = 0.3331. Θ = 1.23/RAO = 70.53 (3) CAN WE TELL IF THE LOSS IS INDUCTIVE OR CAPACITIVE IN NATURE WITH THE GIVEN INFO? No $\Theta = |\Theta v - \Theta z| = 90^{\circ}$ For CWE DO NOT HOUR, PHASE INFO SPISCIFIC ENOUGH