



MOTOR WIRING DIAGRAM

915402

2 Speed, 2 Winding, Single Voltage

Part Winding Start (PWS) on Both Windings

Or

Full Winding – Across the Line Start

NOTICE	
LEAD CONNECTIONS	
LOW SPEED	
PART WINDING START	ACROSS THE LINE START
L1 - 1	L1 - 1 - 7
L2 - 2	L2 - 2 - 8
L3 - 3	L3 - 3 - 9
7,8,9 - EACH LEAD ISOLATED	
359282	

NOTICE	
LEAD CONNECTIONS	
HIGH SPEED	
PART WINDING START	ACROSS THE LINE START
L1 - 11	L1 - 11 - 17
L2 - 12	L2 - 12 - 18
L3 - 13	L3 - 13 - 19
17, 18, 19 - EACH LEAD ISOLATED	
359282	

Per NEMA MG1 1998-1.75, "A part-winding start motor is one which certain specially designed circuits of each phase of the primary winding are initially connected to the supply line. The remaining circuit or circuits of each phase are connected to the supply in parallel with initially connected circuits, at a predetermined point in the starting operation." This is intended to limit the inrush current required to start the motor. NEMA MG1 1998-14.38 states that the motor may not accelerate to full speed in part-winding, and may be noisier than when on full winding.

Motors designed by US MOTORS™ for part-winding start may also be used for across the line starting using only the full winding connection. Damage may occur if the motor is operated with load for more than 2 seconds on part-winding without transition to full winding.

To reverse rotation, interchange leads L1 & L2.

Each lead may have one or more cables comprising that lead. In such case, each cable will be marked with the appropriate lead number.