

AC induction motor performance data

Record #86000 - Typical performance - not guaranteed values

Winding	07WGA0016
Type	0738M
Enclosure	PART

Nameplate data

Rated Output	7.5		
Volts	230/460		
Full Load Amps	18.4/9.2		
R.P.M.	1770		
Hz	60	Phase	3
KVA Code	J		
S.F.	1.15		
NEMA Nom. Eff.	91	Power Factor	84
Duty	15 MIN		
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection

Full Load Torque	22.3 LB-FT
Start Configuration	direct on line
Breakdown Torque	66.73 LB-FT
Pull-up Torque	23.24 LB-FT
Locked-rotor Torque	35.06 LB-FT
Starting Current	69.17 A
No-load Current	3.51
Line-line Res. @ 25°C	1.5 Ω
Temp. Rise @ Rated Load	52°C
Temp. Rise @ S.F. Load	65°C
Locked-rotor Power Factor	36
Rotor inertia	0.934 lb-ft²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	7	49	70	79	84	85	85	85
Efficiency	0	87	90.4	91.7	91.1	90.6	89.3	90.8
Speed	1799	1793	1786	1779	1770	1762	1752	1765
Line amperes	3.51	4.15	5.52	7.26	9.24	11.4	13.85	10.5