



AC Induction Motor Performance Data

Record # 27761

Typical performance - not guaranteed values

Winding: 07WGX776	Type: 0748M	Enclosure: XPFC
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Nameplate Data				General Characteristics at 208 V, 60 Hz: Low Volt Connection	
Rated Output (HP)	10			Full Load Torque	30 LB-FT
Volts	208-230/460			Start Configuration	DOL
Full Load Amps	26.3-25/12.5			Break Down Torque	70.5 LB-FT
R.P.M.	1760			Pull-Up Torque	41.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	50 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	158 Amps
Service Factor	1			No-load Current	8.71 Amps
NEMA Nom. Eff.	92.4	P.F.	82	Line-line Res. @ 25°C.	0.24 Ohms
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	64°C
S.F. Amps				Temp. Rise @ S.F. Load	

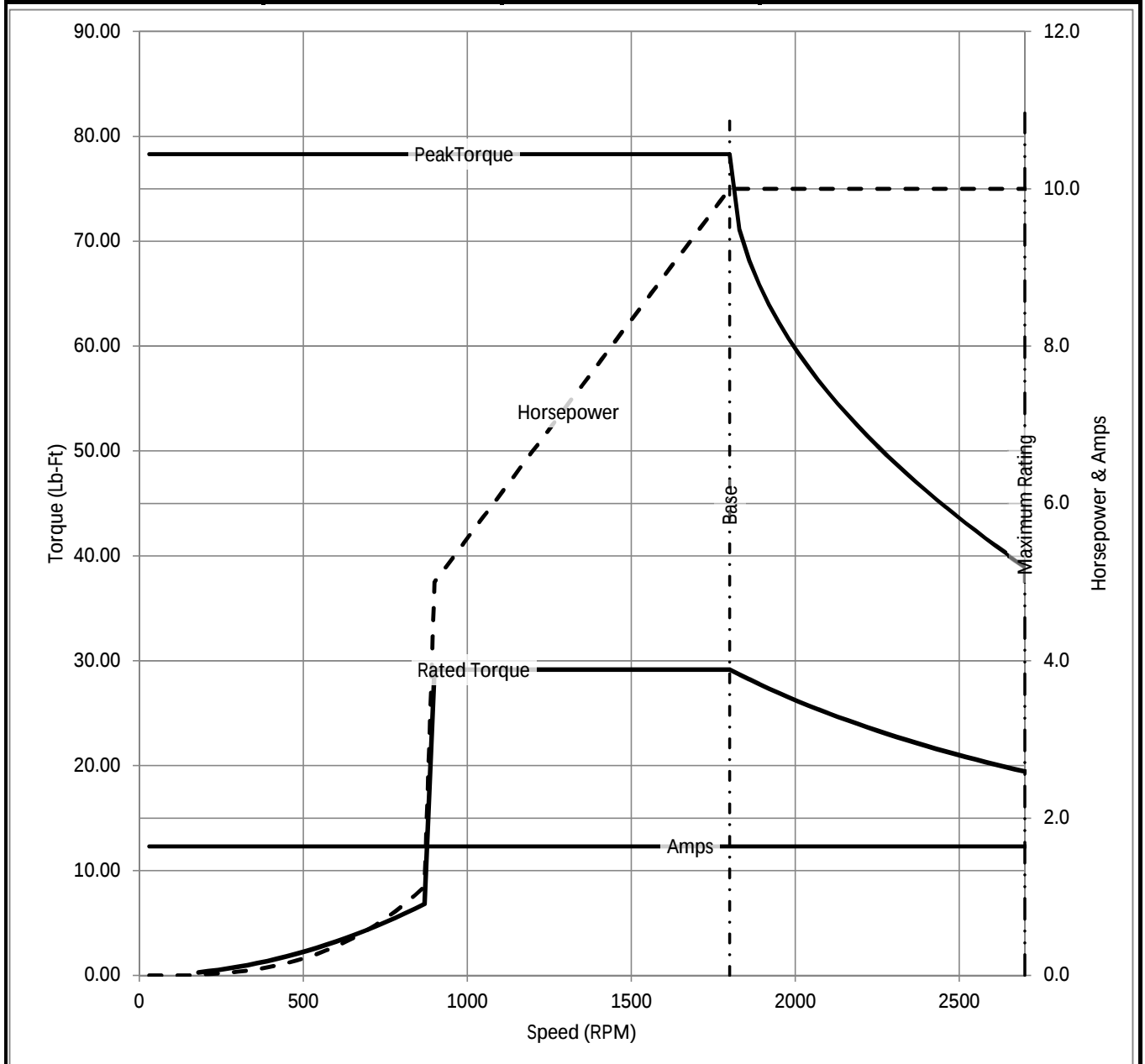
Load Characteristics at 208 Volts, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	74	83	85	86	86	
Efficiency	91	93.5	93.1	92.2	90.4	89	
Speed	1789	1778	1767	1756	1741	1727	
Line Amperes	10.6	14.9	20.3	26.4	33.2	40.7	

Baldor Electric Company Fort Smith, Arkansas

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Catalog	IDXM7170T	NP VOLTS	208-230/460	ENCLOSURE	XPFC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	215TC	NP AMPS	26.3-25/12.5	Base Volts	460	R1	0.470	X1	1.972
HP	10 HP	DUTY	Cont	Base AMPS	12.3	R2	0.317	X2	1.58
BASE SPEED	1800	MAX SAFE RPM	2700	Slip Hz	1.27			XM	48.300
PHASE/HZ	3/60	AMB ⁰ C/INSUL	40/F	WK ² (lb-ft ²)	1.18				



Remarks: Calculated Data

The circuit diagram shows a three-phase wye connection. The line voltage is V_{PH} . The equivalent circuit parameters are: $R1$ (stator resistance), $X1$ (stator reactance), RFE (rotor resistance), $X2$ (rotor reactance), XM (magnetizing reactance), and $R2/S$ (rotor resistance referred to the stator).