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AC Induction Motor Performance Data

Record # 41784
Typical performance - not guaranteed values

Winding: 09WGY583	**Type:** 0952M	**Enclosure:** TEBC

Nameplate Data				General Characteristics at 460 V, 60 Hz: High Volt Connection	
Rated Output (HP)	20			Full Load Torque	59 LB-FT
Volts	230/460			Start Configuration	DOL
Full Load Amps	48/24			Break Down Torque	213 LB-FT
R.P.M.	1765			Pull-Up Torque	85.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	121 LB-FT
NEMA Design Code	B	KVA Code	H	Starting Current	175 Amps
Service Factor	1.00			No-load Current	9.41 Amps
NEMA Nom. Eff.	93.0	P.F.	84	Line-line Res. @ 25°C.	0.426 Ohms
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	60°C
S.F. Amps				Temp. Rise @ S.F. Load	

Load Characteristics at 460 Volts, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	69	80	84	86	87	
Efficiency	89	92.8	93.1	93	92.2	91.1	
Speed	1791	1783	1770	1766	1756	1745	
Line Amperes	10.7	14	19.1	23.7	29.1	35.4	

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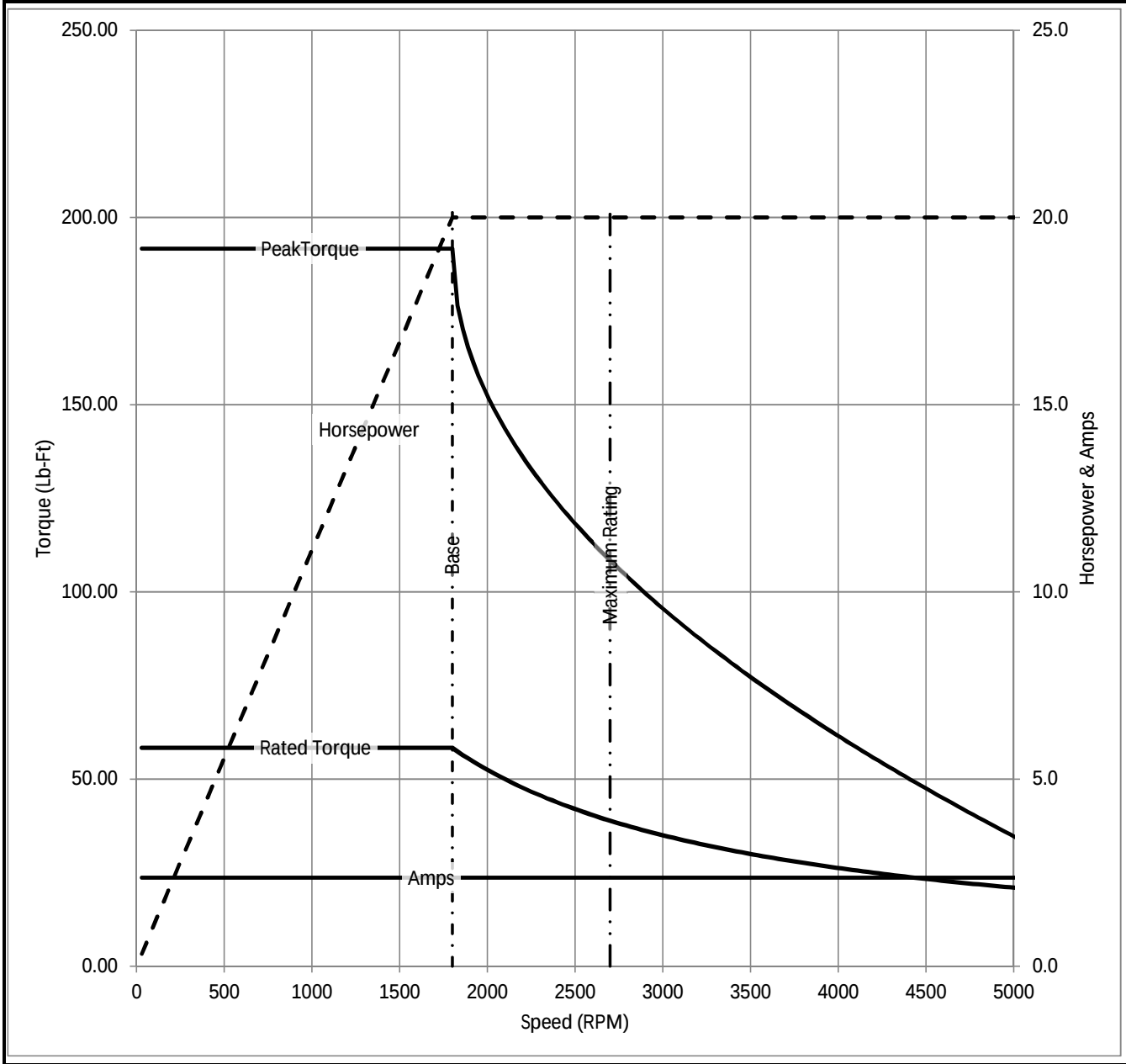
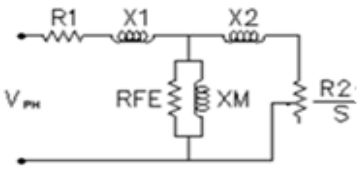
Catalog	IDM2334T	NP VOLTS	230/460	ENCLOSURE	TEBC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	256TC	NP AMPS	48/24	Base Volts	460	R1	0.213	X1	0.839
HP	20 HP	DUTY	Cont	Base AMPS	23.7	R2	0.180	X2	1.035
BASE SPEED	1800	MAX SAFE RPM	5000	Slip Hz	1.13			XM	25.140
PHASE/HZ	3/60	AMB^{0}C/INSUL	40/H	WK^2 (lb-ft^2)	2.27				



Remarks: Calculated Data



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DR BY ENR
CK BY
APP BY ENR
DATE 3/27/2013

A-C MOTOR
PERFORMANCE CURVES

09F279Y583G1

ISSUE DATE 3/27/2013