

AC induction motor performance data

Record #85946 - Typical performance - not guaranteed values

Winding	12WGA0157
Type	1254M
Enclosure	PART

Nameplate data

Rated Output			50
Volts			230/460
Full Load Amps			120/60
R.P.M.			1775
Hz	60	Phase	3
KVA Code			G
S.F.			1.15
NEMA Nom. Eff.	93	Power Factor	84
Duty			15 MIN
S.F. Amps			

460 V, 60 Hz:

High Voltage Connection

Full Load Torque	148 LB-FT
Start Configuration	direct on line
Breakdown Torque	395 LB-FT
Pull-up Torque	166 LB-FT
Locked-rotor Torque	205 LB-FT
Starting Current	335 A
No-load Current	21.49
Line-line Res. @ 25°C	0.138 Ω
Temp. Rise @ Rated Load	78°C
Temp. Rise @ S.F. Load	97°C
Locked-rotor Power Factor	27.1
Rotor inertia	7.19 lb-ft ²

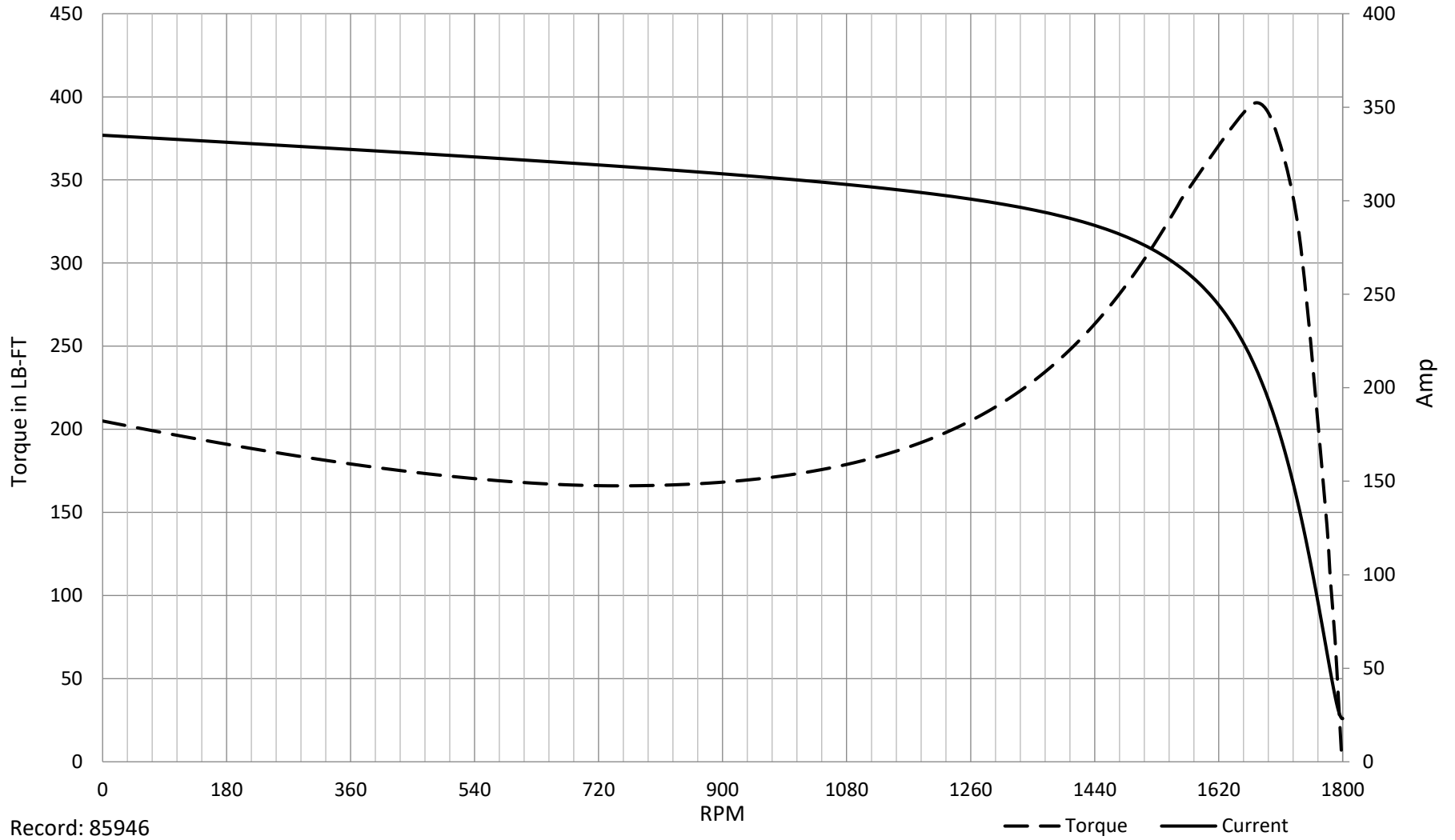
Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	NL	25	50	75	100	125	150	SF
Power Factor	7	54	74	82	84	85	85	85
Efficiency	0	84.6	90.6	92.1	92.8	92.4	92.2	92.6
Speed	1799	1794	1789	1782	1776	1769	1760	1772
Line amperes	21.49	25.84	34.93	46.52	60.36	74.08	89.43	68.6

SPEED TORQUE / SPEED CURRENT CURVES



12WGA0157
50HP 460V 60HZ



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--- Torque — Current