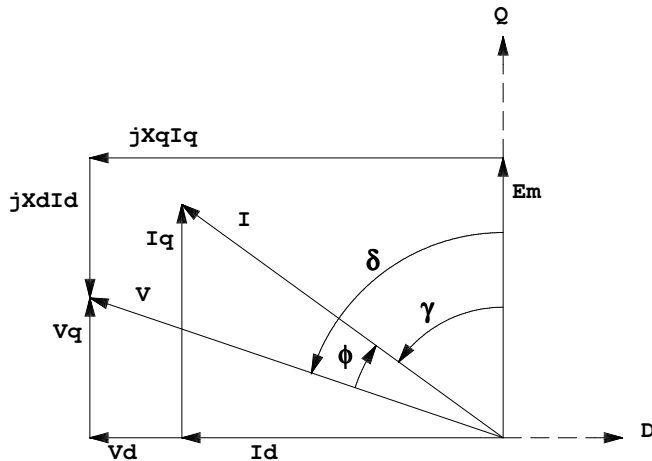


S.O. 0	VOLTS 460	TYPE IPM	STATOR RES.@ 25 °C .2423
FRAME FL2162	AMPS 43	ENCLOSURE TEBC	OHMS (BETWEEN LINES)
HP 40	DUTY CONT	MAX SAFE RPM 5000	
BASE SPEED 1800	S.F. 1.0	WK ² (Lb-Ft ²) 2.14	
PHASE/HERTZ 3/60	AMB °C/INSUL 40/H	MAX INSTANTANEOUS OVERLOAD AMPS 129	

VARIABLE SPEED PERFORMANCE

HP	AMPS (rms)	RPM	GAMMA*	POWER FACT.	EFF.	VOLTS (L-L) (rms)	Em (L-N) (rms)	Lq (mH)	Ld (mH)
OpenCkt**	N/A	1800	5.0	N/A	N/A	N/A	187	N/A	N/A
OpenCkt, hot	N/A	1800	5.0	N/A	N/A	N/A	161	N/A	N/A
8.40	10.8	1800	30.6	95.8	93.3	375	161	45.3	7.60
18.7	21.5	1800	39.8	94.7	94.4	418	161	32.6	7.30
29.0	32.2	1800	44.4	93.3	94.7	439	161	26.1	7.10
40.0	43.0	1800	49.0	92.1	94.5	460	161	23.2	6.80

Remarks: TYPICAL DATA
 CONSTANT TORQUE 0-1800 RPM, CONSTANT POWER 1800-3000 RPM
 200% OVERLOAD BELOW BASE SPEED TAPERED TO 100% AT 3000 RPM



*Gamma is the current angle relative to counter emf, defined to be positive when current leads counter emf.

Equivalently, Gamma is positive when Id is negative.

**Data at 25°C - all other data at rated temperature



DR. BY	CD
CK. BY	RM
APP. BY	RM
DATE	5/3/10

IPM MOTOR
PERFORMANCE PM3927A
DATA ISSUE DATE 5/3/10

S.O. 0
 FRAME FL2162
 HP 40
 BASE SPEED 1800
 PHASE/HERTZ 3/60

VOLTS 460
 AMPS 43
 DUTY CONT
 S.F. 1.0
 AMB °C/INSUL 40/H

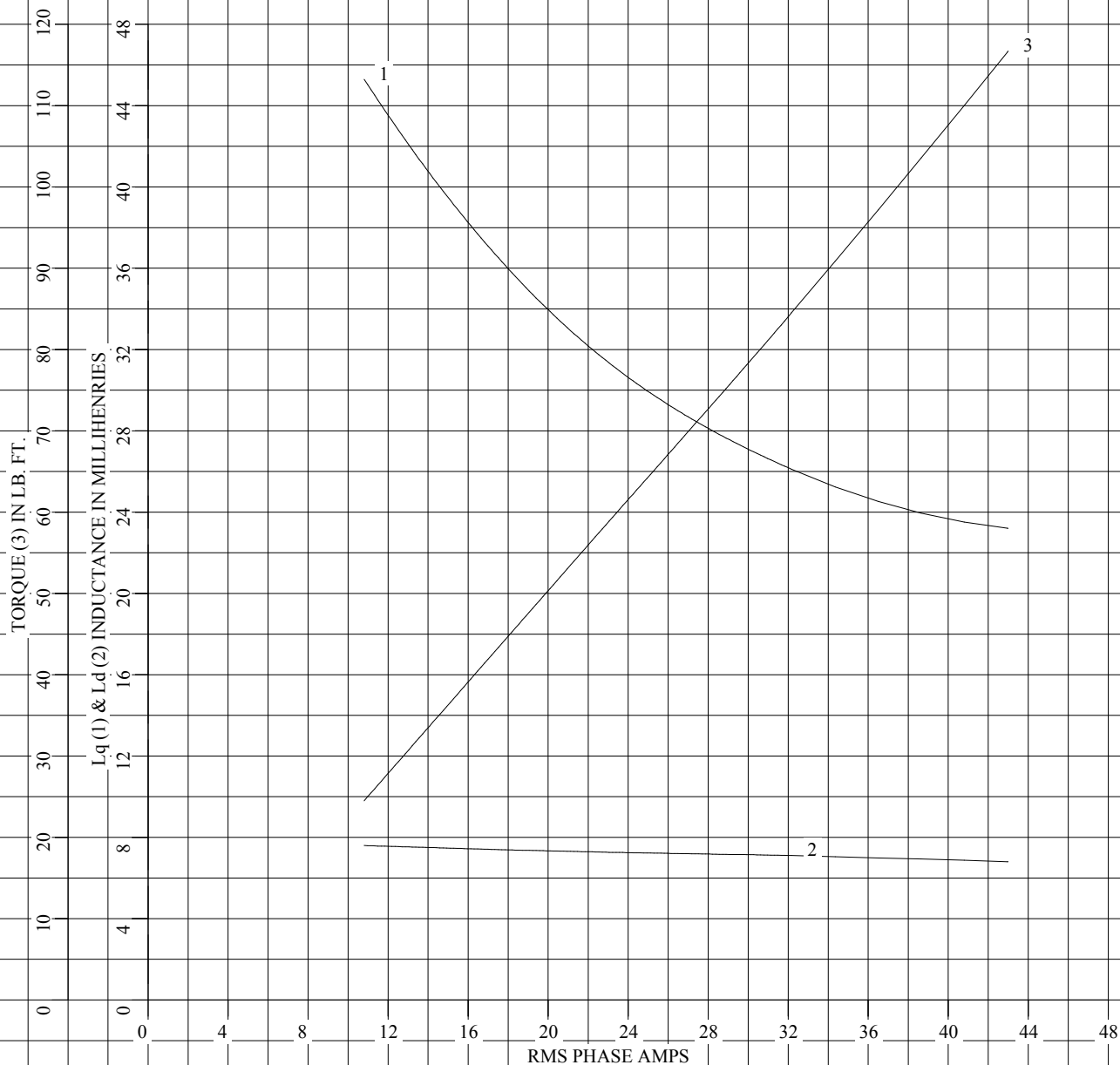
TYPE IPM
 ENCLOSURE TEBC
 MAX SAFE RPM 5000
 WK² (Lb-Ft²) 2.14
 MAX INSTANTANEOUS OVERLOAD AMPS

STATOR RES. @ 25 °C .2423
 OHMS (BETWEEN LINES)

129

Lq, Ld, & Torque vs. RMS Phase Amps

CONSTANT TORQUE 0-1800 RPM, CONSTANT POWER 1800-3000 RPM
 200% OVERLOAD BELOW BASE SPEED TAPERED TO 100% AT 3000 RPM



REMARKS: TYPICAL DATA



DR. BY CD
 CK. BY RM
 APP. BY RM
 DATE 5/3/10

IPM MOTOR
 PERFORMANCE
 DATA

PM3927A

ISSUE DATE 5/3/10