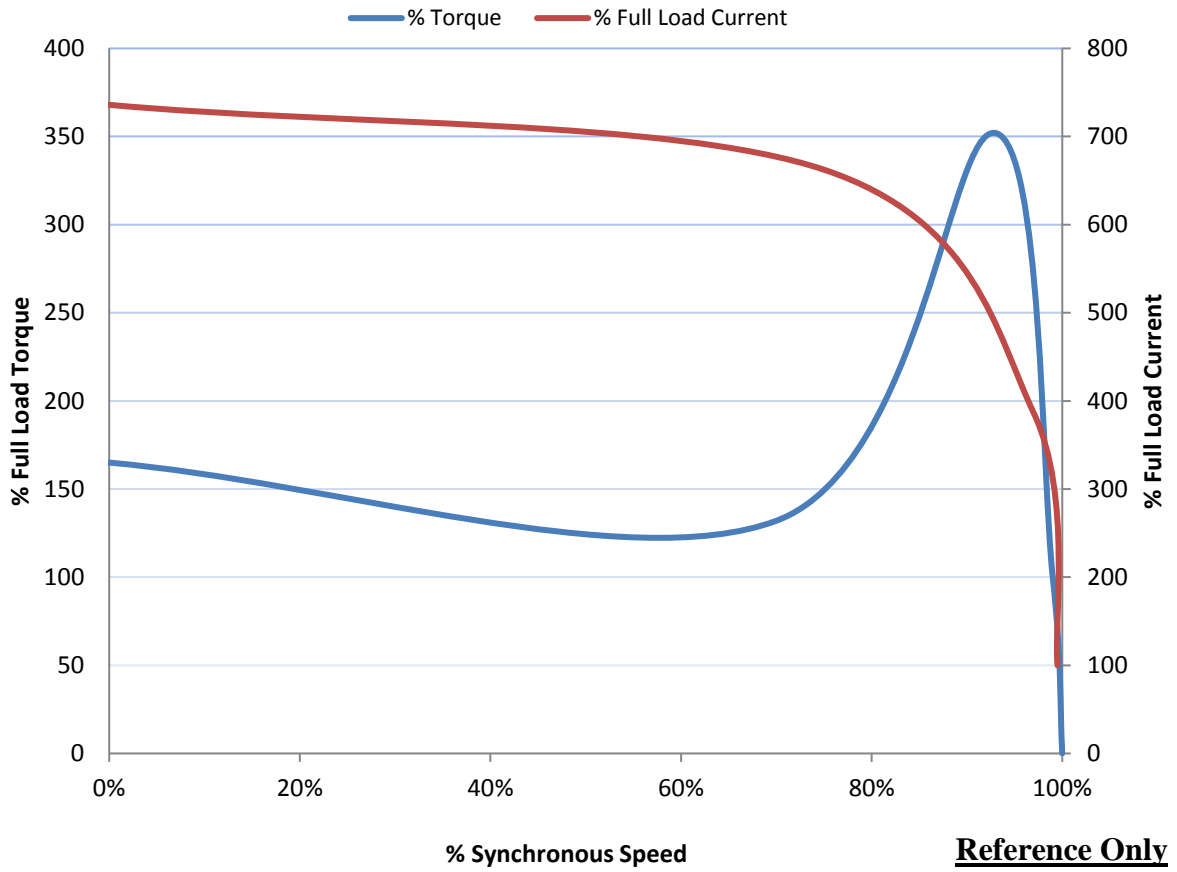


DATA SHEET ~ TECO MAXe3™ PREMIUM SEVERE DUTY - MEPS HIGH EFFICIENCY	
Type	Squirrel Cage Induction Motor ~ TEFC
Input Supply	415Volts 50Hz 3 Phase
Degree of Protection	IP66 Complete with Porous Drain Plugs
Mounting Arrangments	IM1001 B3 / IM3001 B5 / IM2001 B35
Cooling Class	IC411
Insulation	Class 'F' 155°C
Temperature Rise	≤80°C
Ambient Condition	40°C (TECO can accept up to 55°C ambient as standard)
Altitude	Less than 1000 Metres above sea level
Application	Direct Coupled
Starting Method	DOL, Soft Starter or VVVF Duty (Subject to load demand)
Service Factor	1.0 p.u @ Class B Temp. rise - 1.15 p.u @ Class F Temp. rise
Rotation	Bi Directional - Low Noise
Bearing Type & Arrangement	Oversize Series Anti Fiction - Ball / Ball Arrangement
Terminal Box Type & Rating	Oversized Cast Iron Construction - IP66 rating
kW Rating	45
Pole	2
Full Load Speed (Rpm)	2960
Frame Size	225MA
Efficiency @ 100% Loading	95.6
Efficiency @ 75% Loading	95.0
Efficiency @ 50% Loading	94.0
Power Factor @ 100% Loading	93.0
Power Factor @ 75% Loading	92.0
Power Factor @ 50% Loading	87.0
Full Load Current (Amps)	70.40
Starting Current in % (DOL)	736
Starting Current (Amps) (DOL)	518.1
Full Load Torque (Nm)	145.00
Locked Rotor Torque (DOL) (% of Full Load Torque)	165
Pull Up Torque (DOL) (% of Full Load Torque)	132
Breakdown Torque (% of Full Load Torque)	352
Rotor Inertia in $GD^2/4$ (kG-m ²)	0.2968
Maximum Inertia in $GD^2/4$ (kG-m ²)	3.5300
Noise Pressure Level @ 1 Metre No Load (dBA)	79
Approx. Weight (kG)	377

DOL Torque versus Speed & Current Curve



Efficiency & Power Factor Load Curve

