



Dealers Industrial Equipment

No.:

Date: 29-SEP-2016

DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
 Product line : Three-Phase : Explosion Proof - High Efficiency

Frame : 586/7T
 Output : 500 HP
 Frequency : 60 Hz
 Poles : 4
 Full load speed : 1790 rpm
 Slip : 0.56 %
 Voltage : 460 V
 Rated current : 564 A
 Locked rotor current : 3610 A
 Locked rotor current (I_L/I_n) : 6.4
 No-load current : 140 A
 Full load torque : 1447 lb.ft
 Locked rotor torque : 180 %
 Breakdown torque : 210 %
 Design : B
 Insulation class : F
 Temperature rise : 105 K
 Locked rotor time : 35 s (hot)
 Service factor : 1.00
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP54
 Approximate weight : 4840 lb
 Moment of inertia : 255.87 sq.ft.lb
 Noise level : 83 dB(A)

	D.E.	N.D.E.
Bearings	6322 C3	6319 C3
Regreasing interval	5138 h	7038 h
Grease amount	60 g	45 g

Load	Power factor	Efficiency (%)
100%	0.86	95.8
75%	0.85	95.4
50%	0.82	95.0

Notes:
 Downloaded from <http://dealerselectric.com>
 Generated for Model #50018XP3G586/7

Performed by

Checked