



Dealers Industrial Equipment

No.:

Date: 23-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Oil Well Pumping : High Slip - NEMA Design "D" - ODP

Catalog Number : 02012OS3EOW286T

List Price : \$2,603

Notes:

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DATA SHEET

Three-phase induction motor - Squirrel cage rotor

Customer :
 Product line : Oil Well Pumping : High Slip - NEMA Design "D" - ODP

Frame : 286T
 Output : 20 HP
 Frequency : 60 Hz
 Poles : 6
 Full load speed : 1110 rpm
 Slip : 7.50 %
 Voltage : 208-230/460 V
 Rated current : 54.2-49.0/24.5 A
 Locked rotor current : 294/147 A
 Locked rotor current (I_L/I_n) : 6.0
 No-load current : 16.4/8.20 A
 Full load torque : 93.3 lb.ft
 Locked rotor torque : 280 %
 Breakdown torque : 0 %
 Design : D
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 13 s (hot)
 Service factor : 1.00
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP23
 Approximate weight : 397 lb
 Moment of inertia : 6.5445 sq.ft.lb
 Noise level : 58 dB(A)

	D.E.	N.D.E.
Bearings	6311 Z-C3	6211 Z-C3
Regreasing interval	20000 h	20000 h
Grease amount	18 g	11 g

Load	Power factor	Efficiency (%)
100%	0.89	86.5
75%	0.87	87.0
50%	0.81	86.5

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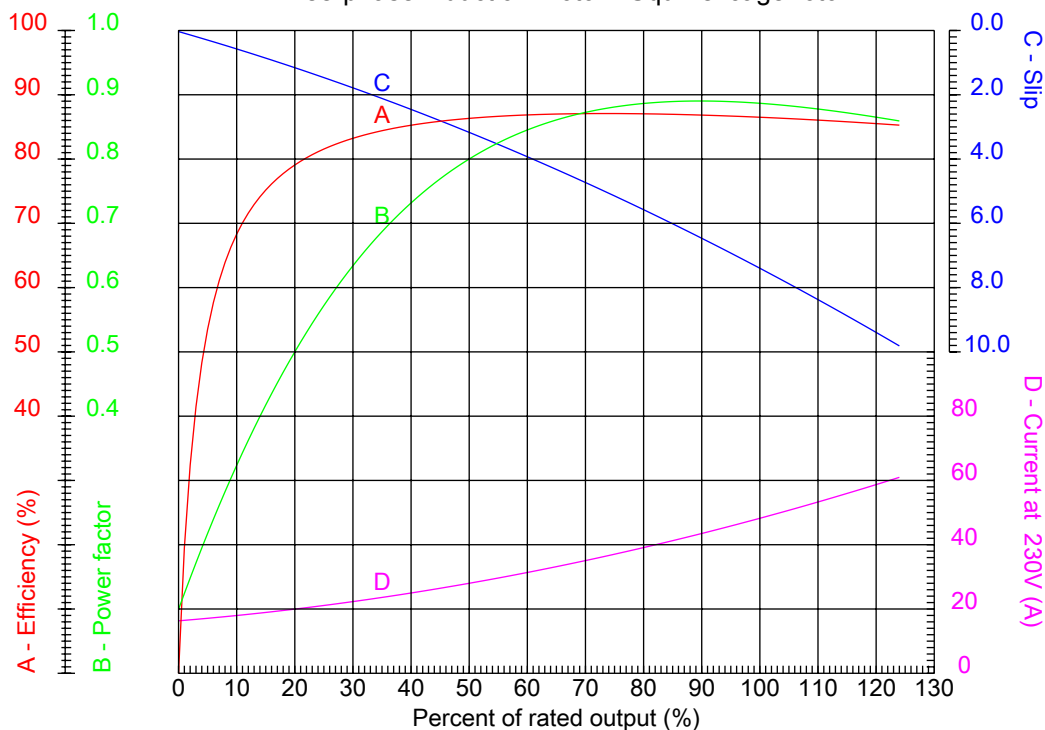
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Oil Well Pumping : High Slip - NEMA Design "D" - ODP

Frame	: 286T	Locked rotor current (I _l /I _n)	: 6.0
Output	: 20 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.00
Full load speed	: 1110 rpm	Design	: D
Voltage	: 208-230/460 V	Locked rotor torque	: 280 %
Rated current	: 54.2-49.0/24.5 A	Breakdown torque	: 0 %
Insulation class	: F		

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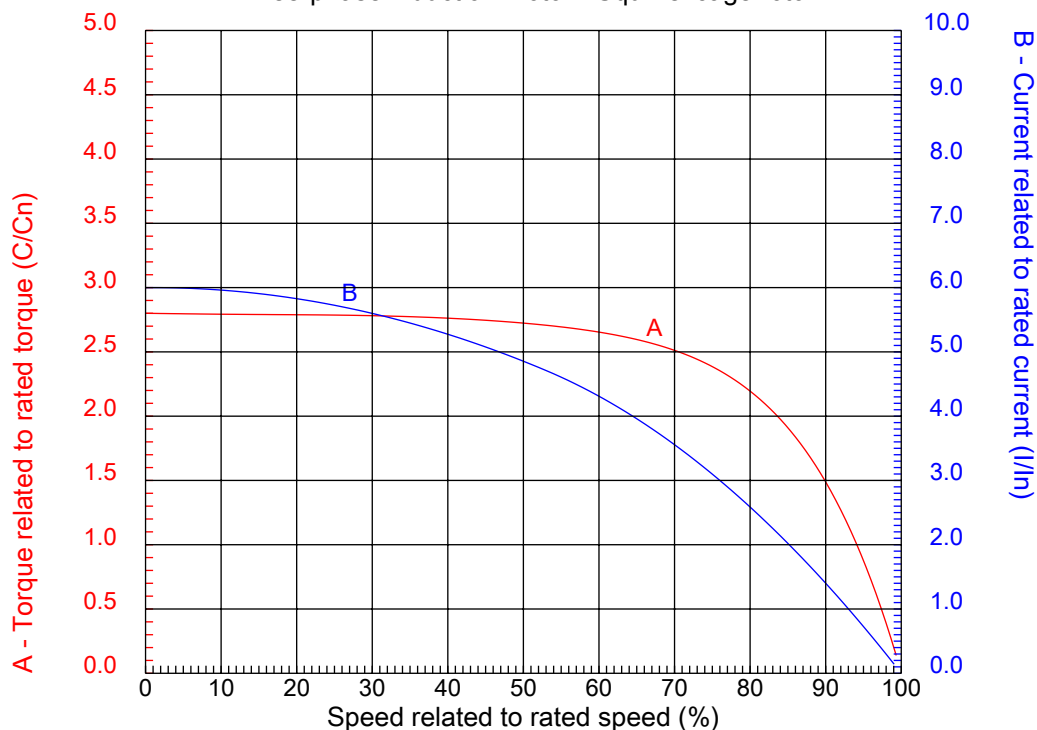
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Oil Well Pumping : High Slip - NEMA Design "D" - ODP

Frame	: 286T	Locked rotor current (I _l /I _n)	: 6.0
Output	: 20 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.00
Full load speed	: 1110 rpm	Design	: D
Voltage	: 208-230/460 V	Locked rotor torque	: 280 %
Rated current	: 54.2-49.0/24.5 A	Breakdown torque	: 238 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A
B
C
D
E
F

LOW VOLTAGE

HIGH VOLTAGE



CONNECTIONS FOR STARTING ONLY:

LOW VOLTAGE

HIGH VOLTAGE



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Customer:

Oil Well Pumping : High Slip - NEMA Design "D" - ODP

Three-phase induction motor
Frame 286T - IP23

23-SEP-2016

