



Dealers Industrial Equipment

No.:

Date: 28-SEP-2016

Customer :

TECHNICAL PROPOSAL

Three-phase induction motor - Squirrel cage rotor

Product line : Three-Phase: W22 Crusher Duty TEFC (IP55)

Catalog Number : 25018EP3GKD447T-W22

List Price : \$21,399

Notes:

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DATA SHEET Three-phase induction motor - Squirrel cage rotor

Customer :
 Product line : Three-Phase: W22 Crusher Duty TEFC (IP55)

Frame : 445/7T
 Output : 250 HP
 Frequency : 60 Hz
 Poles : 4
 Full load speed : 1785 rpm
 Slip : 0.83 %
 Voltage : 460 V
 Rated current : 285 A
 Locked rotor current : 2280 A
 Locked rotor current (I_L/I_n) : 8.0
 No-load current : 100 A
 Full load torque : 726 lb.ft
 Locked rotor torque : 280 %
 Breakdown torque : 290 %
 Design : A
 Insulation class : F
 Temperature rise : 80 K
 Locked rotor time : 15 s (hot)
 Service factor : 1.15
 Duty cycle : S1
 Ambient temperature : -20°C - +40°C
 Altitude : 1000 m
 Degree of Protection : IP55
 Approximate weight : 2227 lb
 Moment of inertia : 89.555 sq.ft.lb
 Noise level : 73 dB(A)

	D.E.	N.D.E.
Bearings	NU-319 C3	6316 C3
Regreasing interval	5000 h	10000 h
Grease amount	45 g	34 g

Load	Power factor	Efficiency (%)
100%	0.85	95.8
75%	0.82	95.4
50%	0.73	95.0

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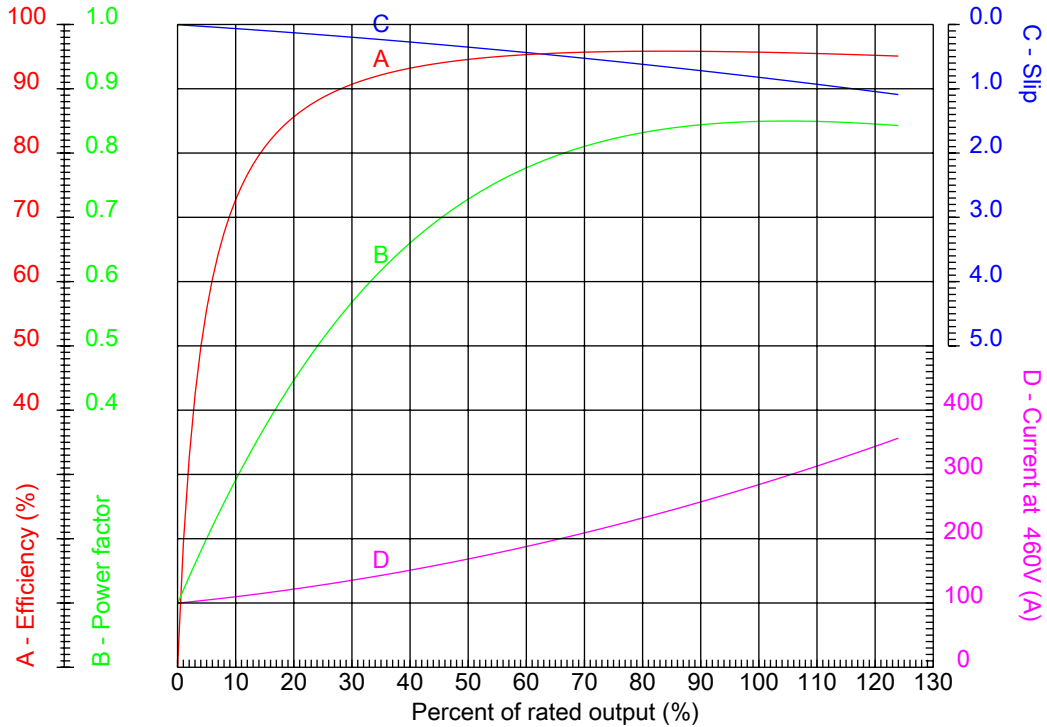
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PERFORMANCE CURVES RELATED TO RATED OUTPUT

Three-phase induction motor - Squirrel cage rotor



Customer :
 Product line : Three-Phase: W22 Crusher Duty TEFC (IP55)

Frame	: 445/7T	Locked rotor current (I _l /I _n)	: 8.0
Output	: 250 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1785 rpm	Design	: A
Voltage	: 460 V	Locked rotor torque	: 280 %
Rated current	: 285 A	Breakdown torque	: 290 %
Insulation class	: F		

Notes:
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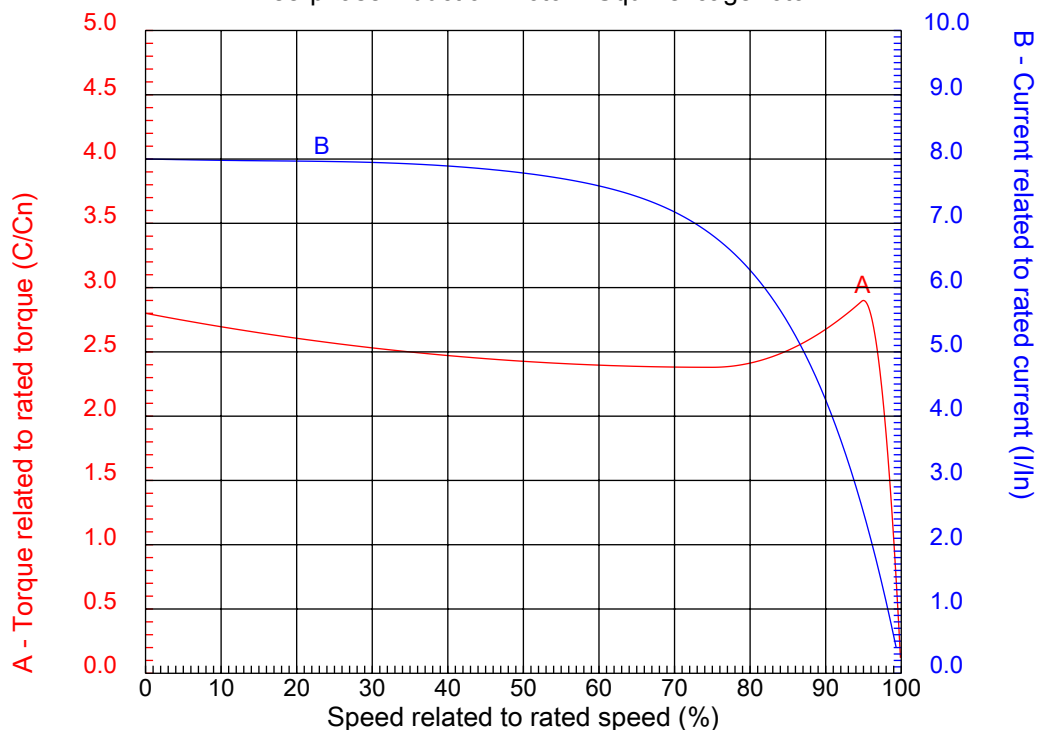
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CHARACTERISTIC CURVES RELATED TO SPEED

Three-phase induction motor - Squirrel cage rotor



Customer :
Product line : Three-Phase: W22 Crusher Duty TEFC (IP55)

Frame	: 445/7T	Locked rotor current (I _l /I _n)	: 8.0
Output	: 250 HP	Duty cycle	: S1
Frequency	: 60 Hz	Service factor	: 1.15
Full load speed	: 1785 rpm	Design	: A
Voltage	: 460 V	Locked rotor torque	: 280 %
Rated current	: 285 A	Breakdown torque	: 290 %
Insulation class	: F		

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1 2 3 4 5 6 7 8

A

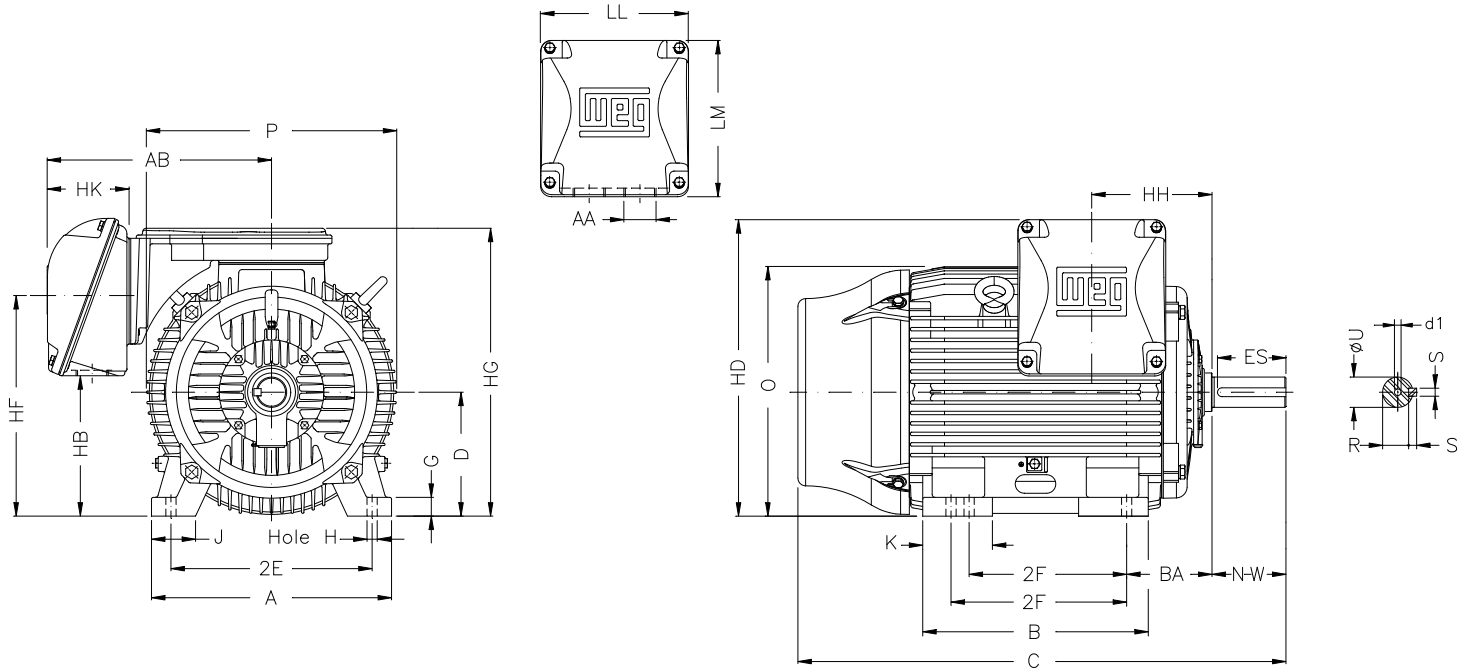
B

C

D

E

F



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Customer:

Three-Phase: W22 Crusher Duty TEFC (IP55)

Three-phase induction motor
Frame 445/7T - IP55

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AB 20.670	2F 16.500/20.000	B 23.897	U 3.375	N-W 8.500
ES 7.087	S 0.875	R 2.880	depth 0.875	HB 12.598
HF 20.724	HG 26.850	HH 11.811	HK 6.968	C 48.701
LL 14.646	LM 15.040	AA 2xNPT 3"	d1 DUNC 3/4"-10	d2 DUNC 3/4"-10

1 2 3 4 5 6 7 8

A

PART-WINDING

WYE-DELTA

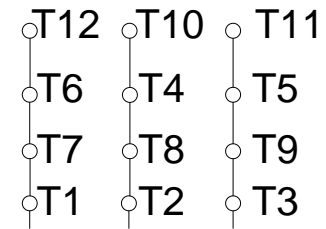
START

RUN

START

RUN

B



C

L1 L2 L3

L1 L2 L3

L1 L2 L3

L1 L2 L3

D

E

F

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Three-Phase: W22 Crusher Duty TEFC (IP55)

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