



No.:

Date: 24-DEC-2012

Customer :

TECHNICAL PROPOSAL

Single-phase induction motor - Squirrel cage rotor

Product line : Single-Phase : NEMA 48 & 56 ODP - Resilient Base - Split Phase

Catalog Number : .5018OS1BRBOC56

List Price : \$316

Notes:

Performed by:

Checked:



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DATA SHEET

Single-phase induction motor - Squirrel cage rotor

Customer :
Product line : Single-Phase : NEMA 48 & 56 ODP - Resilient Base - Split Phase

Frame : C56
Output : 0.5 HP
Frequency : 60 Hz
Poles : 4
Full load speed : 1730
Slip : 3.89 %
Voltage : 115/208-230 V
Rated current : 8.00/4.00-4.00 A
Locked rotor current : 48.0/24.0 A
Locked rotor current (I_L/I_n) : 6.0
No-load current : 6.00/3.00 A
Full load torque : 1.50 lb.ft
Locked rotor torque : 130 %
Breakdown torque : 220 %
Design : ---
Insulation class : B
Temperature rise : 80 K
Locked rotor time : 6 s (hot)
Service factor : 1.25 (1.00 at 208V)
Duty cycle : S1
Ambient temperature : -20°C - +40°C
Altitude : 1000
Degree of Protection : IP21
Approximate weight : 26 lb
Moment of inertia : 0.04817 sq.ft.lb
Noise level : ---

	D.E.	N.D.E.	Load	Power factor	Efficiency (%)
Bearings	6203 ZZ	6202 ZZ	100%	0.63	63.5
Regreasing interval	---	---	75%	0.54	61.0
Grease amount	---	---	50%	0.44	54.5

Notes:

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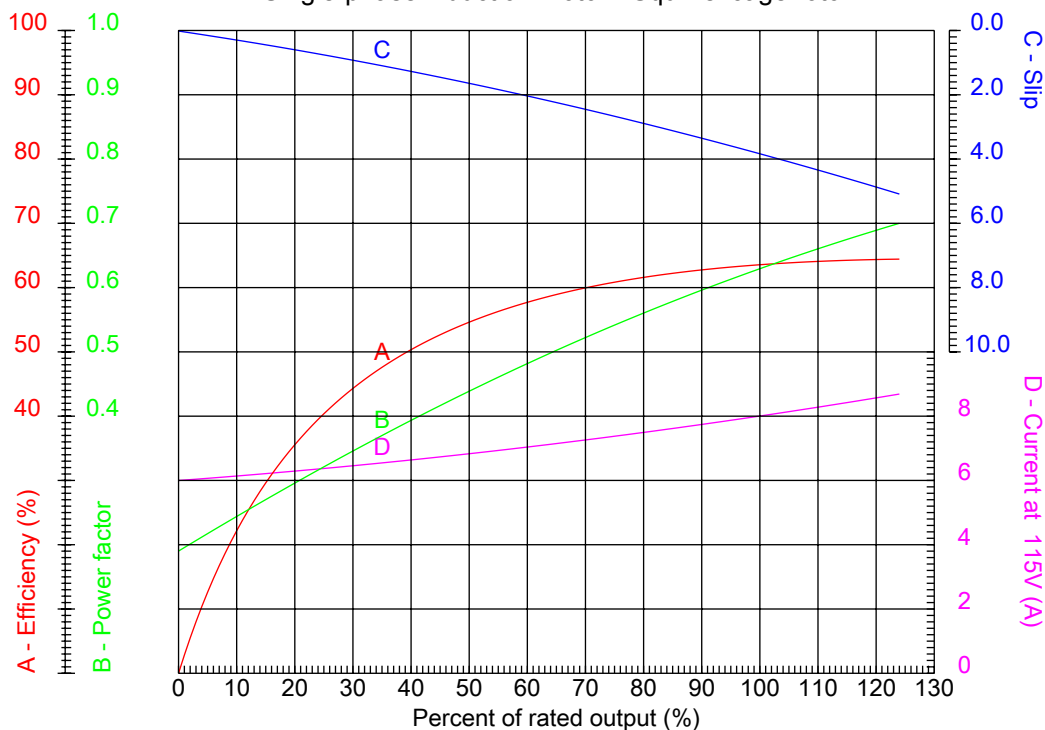
Checked



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PERFORMANCE CURVES RELATED TO RATED OUTPUT Single-phase induction motor - Squirrel cage rotor



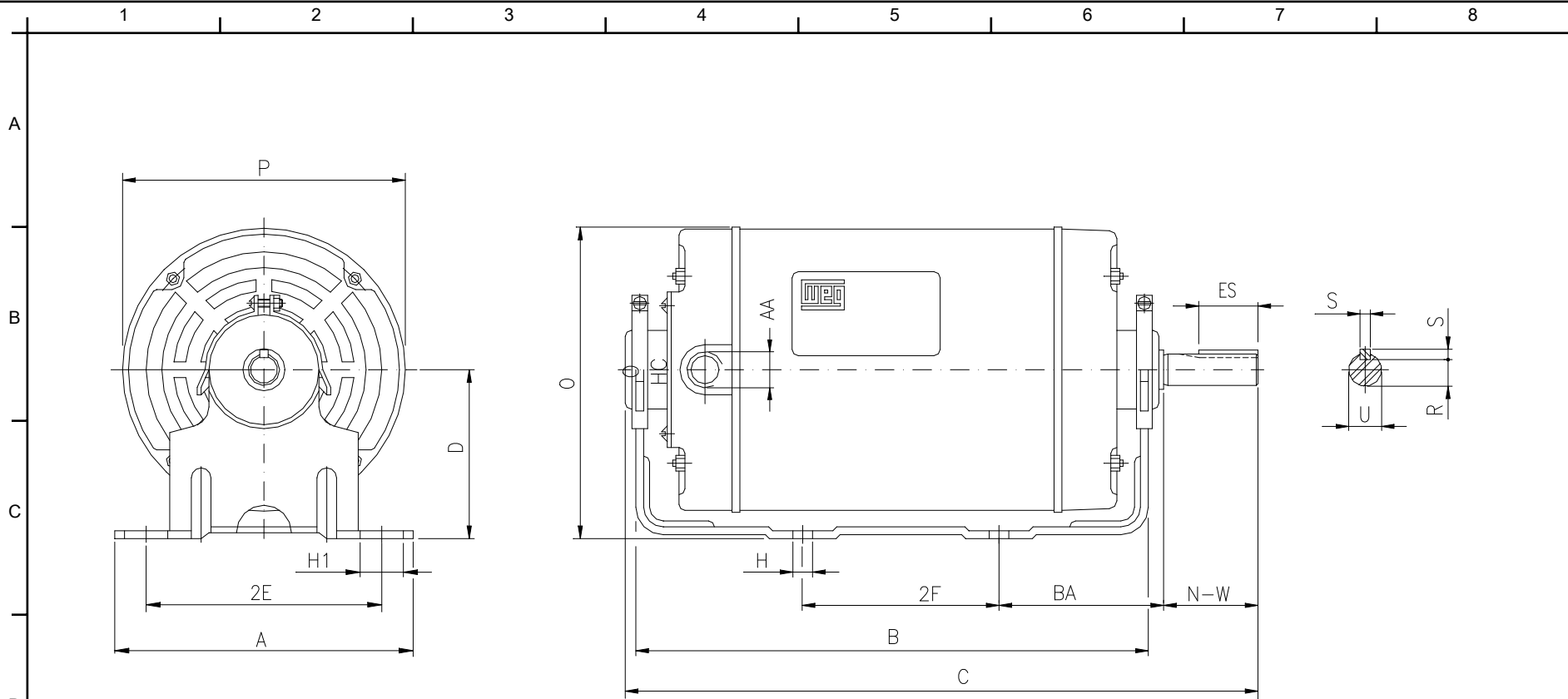
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2E	2F	H	BA	A
4.874	3.000	0.342	2.750	6.535
B	C	D	J	O
4.016	10.433	3.500	1.220	6.378
P	ES	S	N-W	U
5.709	1.102	0.187	1.874	0.625
R	AA			
0.517	NPT 1/2"			

Single-Phase : NEMA 48 & 56 ODP - Resilient Base - Split Phase

Single-phase induction motor
Frame C56 - IP21

24-DEC-2012

