

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12445705
Catalog # : HT001506NPW22

Frame	: 182/4T	Locked rotor time	: 28s (cold) 16s (hot)
Output	: 1.5 HP (1.1 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 2.03 A	Protection degree	: IP55
L. R. Amperes	: 15.8 A	Cooling method	: IC411 - TEFC
LRC	: 7.8x(Code M)	Mounting	: F-1
No load current	: 1.30 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1170 rpm	Noise level ²	: 52.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 6.73 ft.lb	Approx. weight ³	: 70.3 lb
Locked rotor torque	: 320 %		
Breakdown torque	: 400 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.4879 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	84.0	86.5	87.5	Max. traction	: 126 lb
Power Factor	0.45	0.54	0.62	Max. compression	: 218 lb

Losses at normative operating points (speed;torque), in percentage of rated output power

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
13.4	10.3	9.3	8.8	5.8	4.8	3.5

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	: 6207 ZZ	: 6206 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: 00088	

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	24/07/2026			
			Page	Revision
			1 / 6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

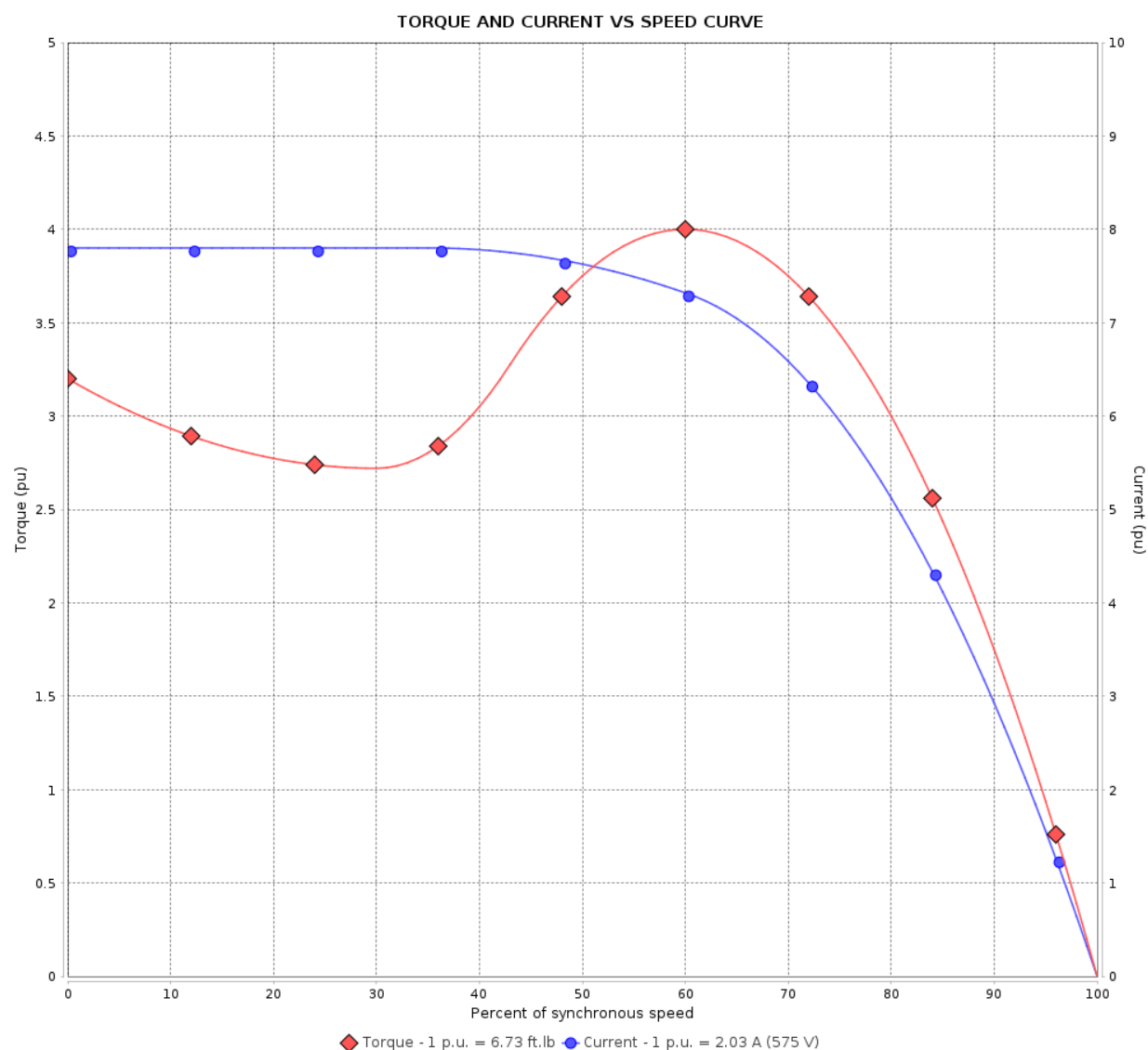


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12445705

Catalog # : HT001506NPW22



Performance : 575 V 60 Hz 6P

Rated current : 2.03 A
LRC : 7.8
Rated torque : 6.73 ft.lb
Locked rotor torque : 320 %
Breakdown torque : 400 %
Rated speed : 1170 rpm

Moment of inertia (J) : 0.4879 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Locked rotor time : 28s (cold) 16s (hot)

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 6Revision		
Checked by				
Date	24/07/2026			

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

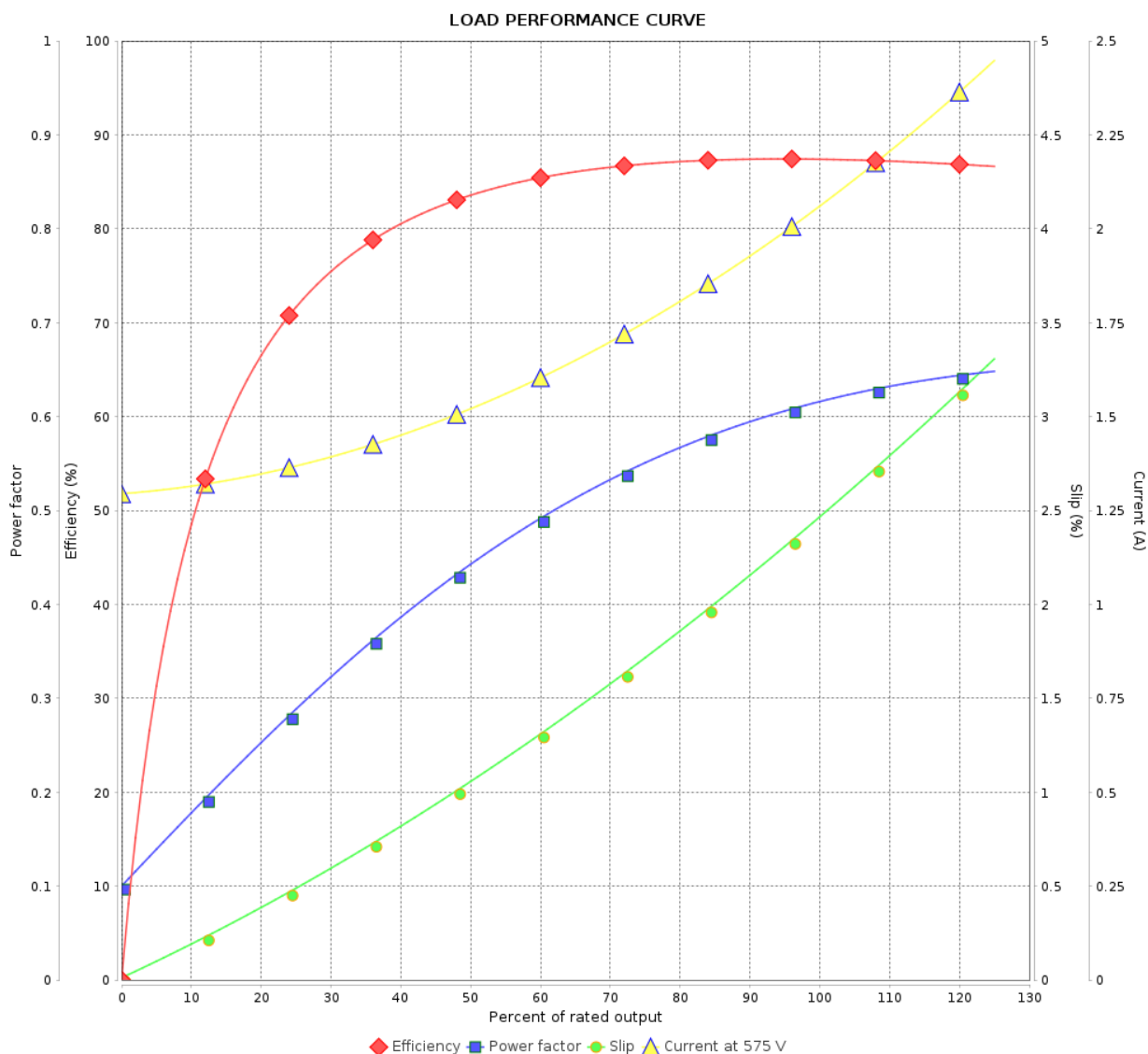


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12445705

Catalog # : HT001506NPW22



Performance : 575 V 60 Hz 6P

Rated current : 2.03 A
LRC : 7.8
Rated torque : 6.73 ft.lb
Locked rotor torque : 320 %
Breakdown torque : 400 %
Rated speed : 1170 rpm

Moment of inertia (J) : 0.4879 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 6Revision		
Checked by				
Date	24/07/2026			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



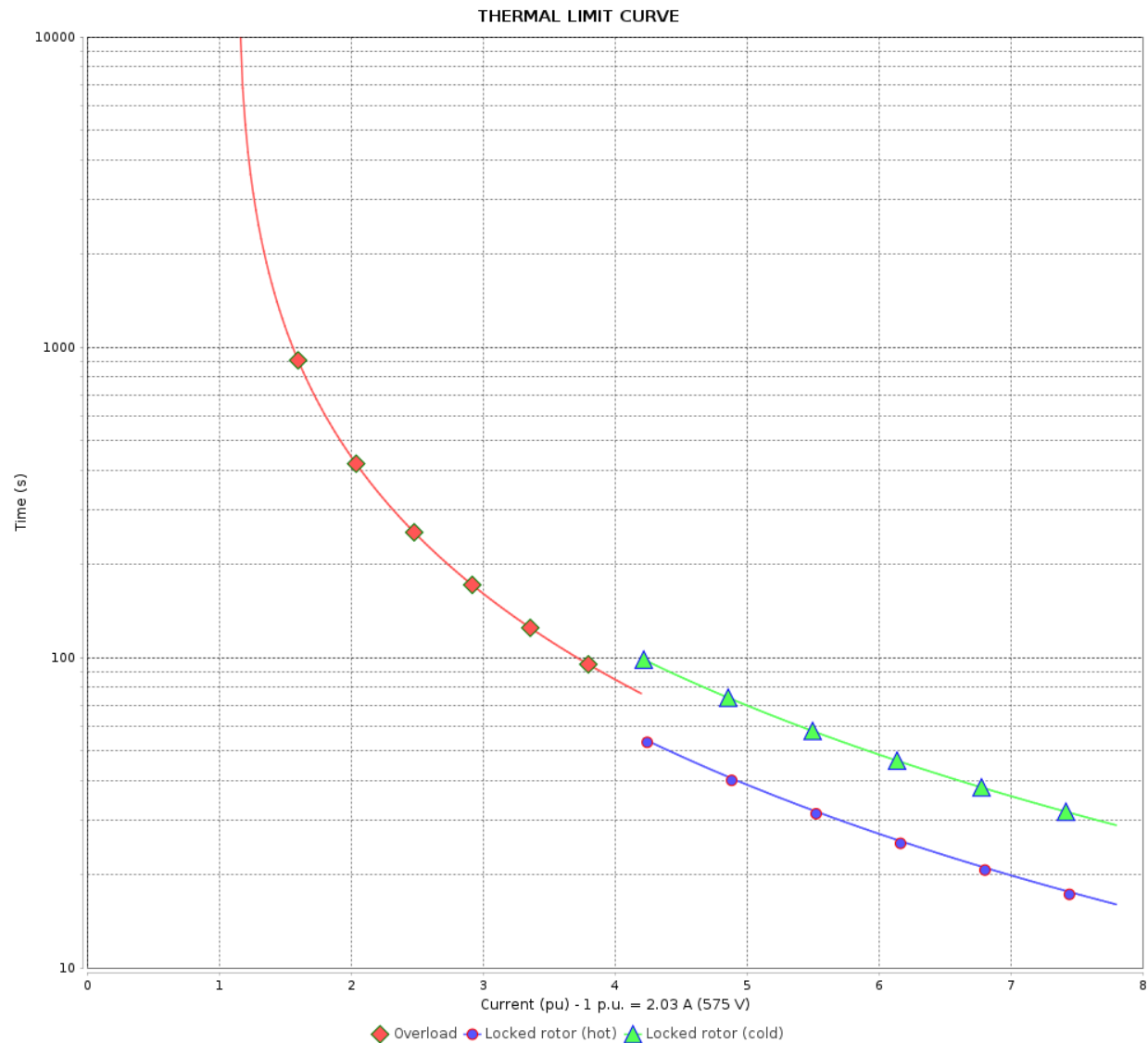
Customer :					
Product line : W22 NEMA Premium Efficiency Three-Phase		Product code : 12445705 Catalog # : HT001506NPW22			
Performance : 575 V 60 Hz 6P					
Rated current : 2.03 A		Moment of inertia (J) : 0.4879 sq.ft.lb			
LRC : 7.8		Duty cycle : Cont.(S1)			
Rated torque : 6.73 ft.lb		Insulation class : F			
Locked rotor torque : 320 %		Service factor : 1.25			
Breakdown torque : 400 %		Temperature rise : 80 K			
Rated speed : 1170 rpm		Design : B			
Heating constant					
Cooling constant					
Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page Revision 4 / 6	
Checked by					
Date	24/07/2026				

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by					
Date	24/07/2026				
				Page 5 / 6	Revision

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

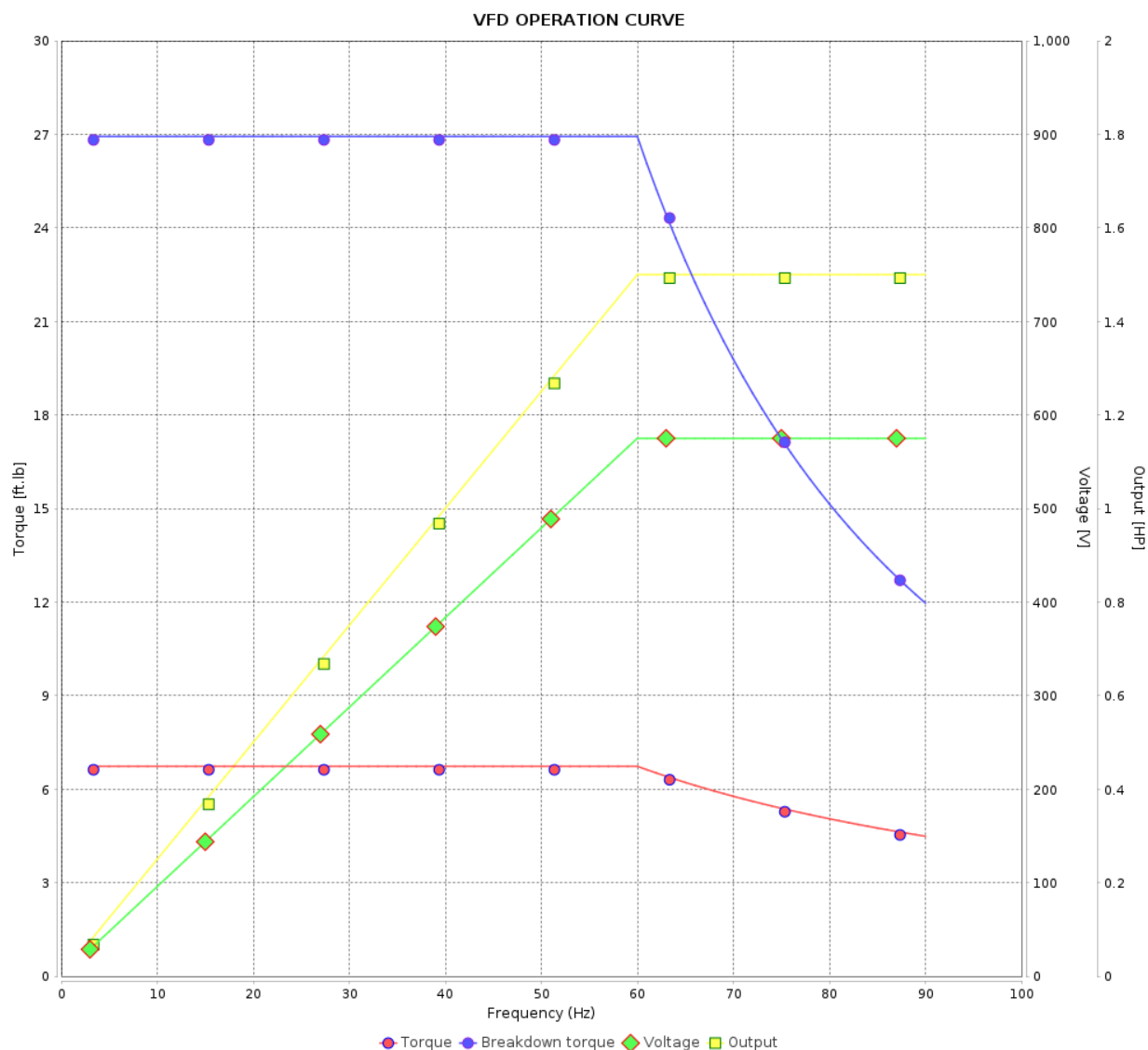


Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12445705

Catalog # : HT001506NPW22

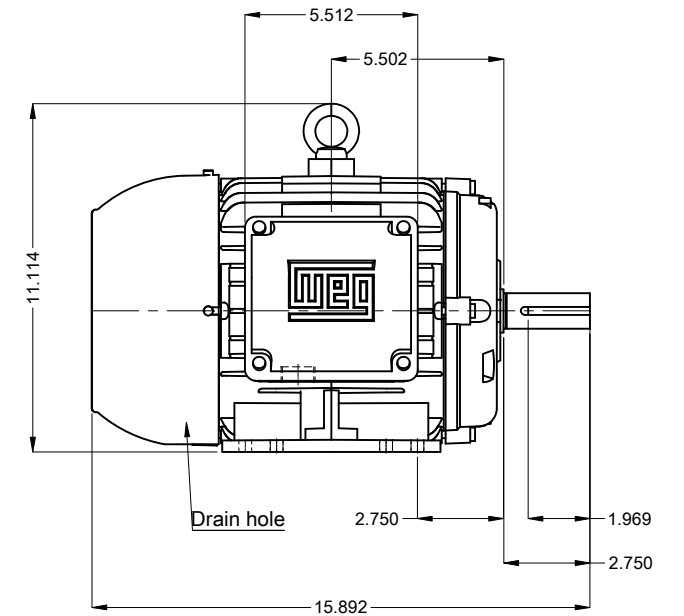


Performance : 575 V 60 Hz 6P

Rated current : 2.03 A
LRC : 7.8
Rated torque : 6.73 ft.lb
Locked rotor torque : 320 %
Breakdown torque : 400 %
Rated speed : 1170 rpm

Moment of inertia (J) : 0.4879 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				6 / 6	
Date					



WEG's property. Forbidden reproduction without previous authorization.