

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11355771
Catalog # : HT125406NPBBW22

Frame	: 444/5T	Locked rotor time	: 34s (cold) 19s (hot)
Output	: 125 HP	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 290/145 A	Protection degree	: IP55
L. R. Amperes	: 1856/928 A	Cooling method	: IC411 - TEFC
LRC	: 6.4x(Code G)	Mounting	: F-1
No load current	: 120/60.0 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1189 rpm	Noise level ²	: 69.0 dB(A)
Slip	: 0.92 %	Starting method	: Direct On Line
Rated torque	: 552 ft.lb	Approx. weight ³	: 1751 lb
Locked rotor torque	: 210 %		
Breakdown torque	: 240 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 104 sq.ft.lb		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	95.0	95.4	95.0	Max. traction	: 3099 lb
Power Factor	0.69	0.78	0.82	Max. compression	: 4702 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)
5.3	4.3	3.9	2.8	1.9	1.3	0.9

	Drive end	Non drive end
Bearing type	: 6319 C3	: 6316 C3
Sealing	: WSeal	: WSeal
Lubrication interval	: 13000 h	: 16000 h
Lubricant amount	: 45 g	: 34 g
Lubricant type	: Mobil Polyrex EM	

Notes

USABLE @208V 316A SF 1.00 SFA 316A

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.

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Checked by				
Date	03/07/2026			

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

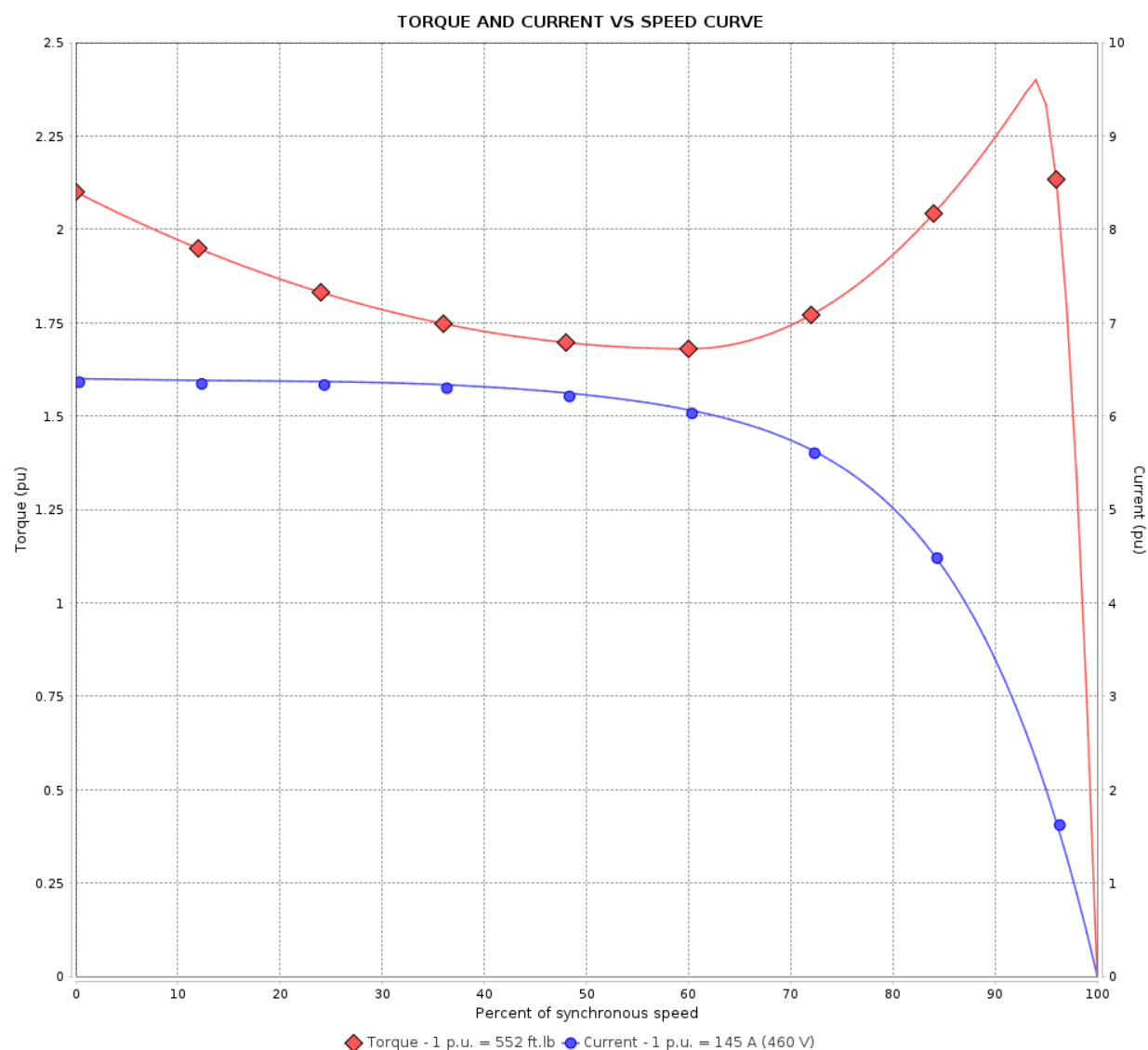


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Three-Phase

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Catalog # : HT125406NPBBW22



Performance : 230/460 V 60 Hz 6P

Rated current : 290/145 A
LRC : 6.4
Rated torque : 552 ft.lb
Locked rotor torque : 210 %
Breakdown torque : 240 %
Rated speed : 1189 rpm

Moment of inertia (J) : 104 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
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Design : B

Locked rotor time : 34s (cold) 19s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

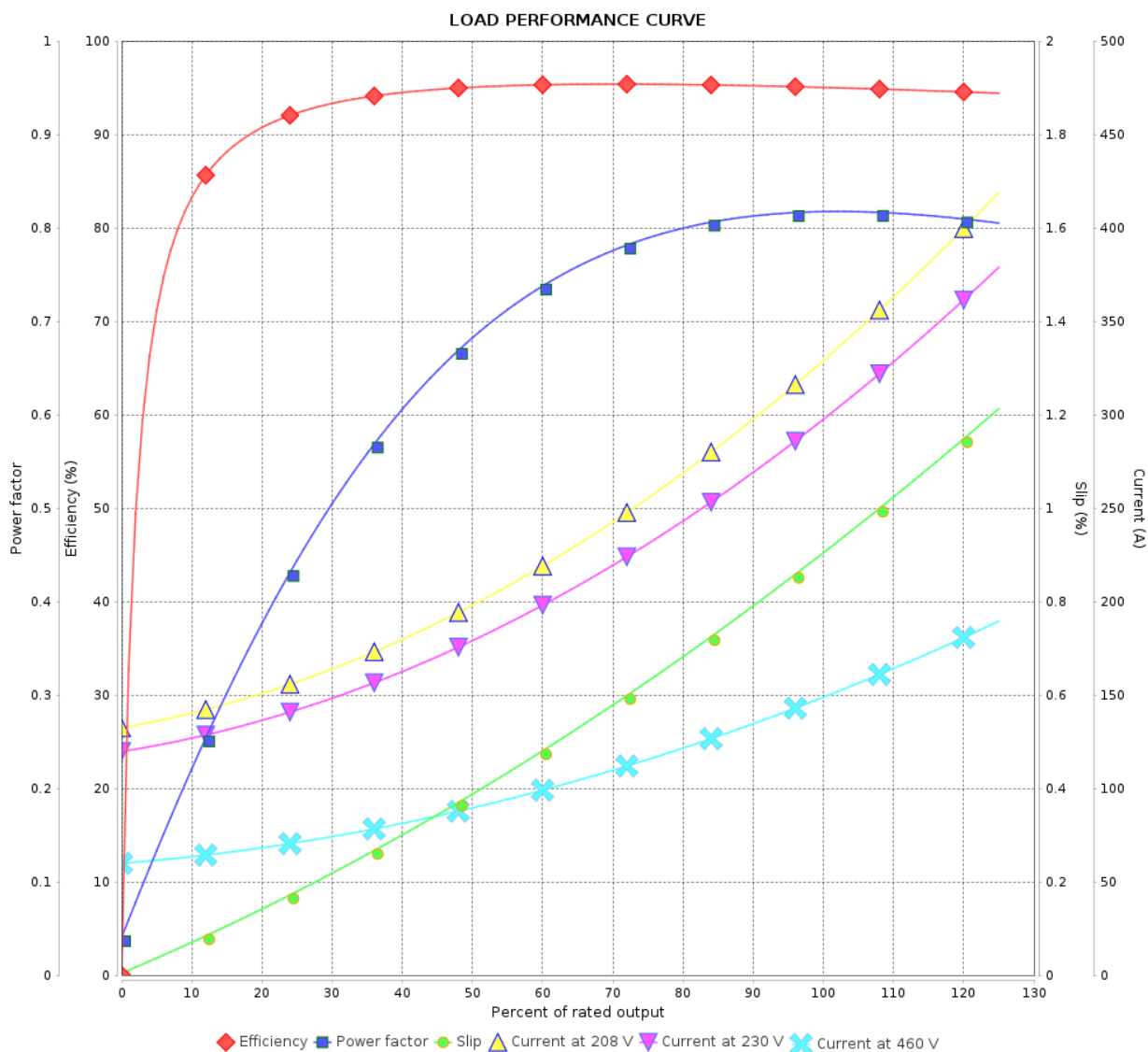


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THERMAL LIMIT CURVE

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		Catalog # :	HT125406NPBBW22



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Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1189 rpm	Design	: B

Heating constant	
Cooling constant	

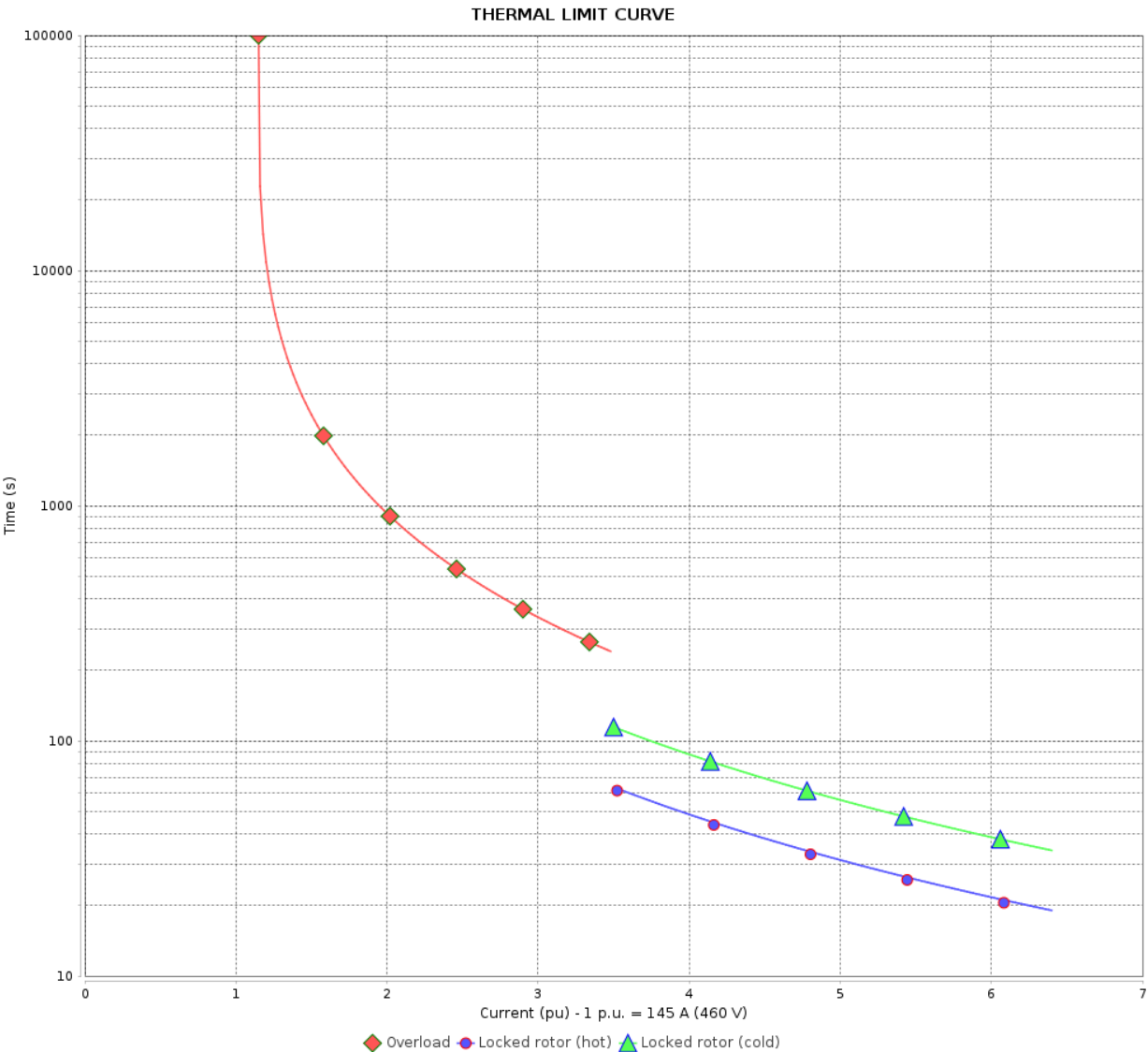
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

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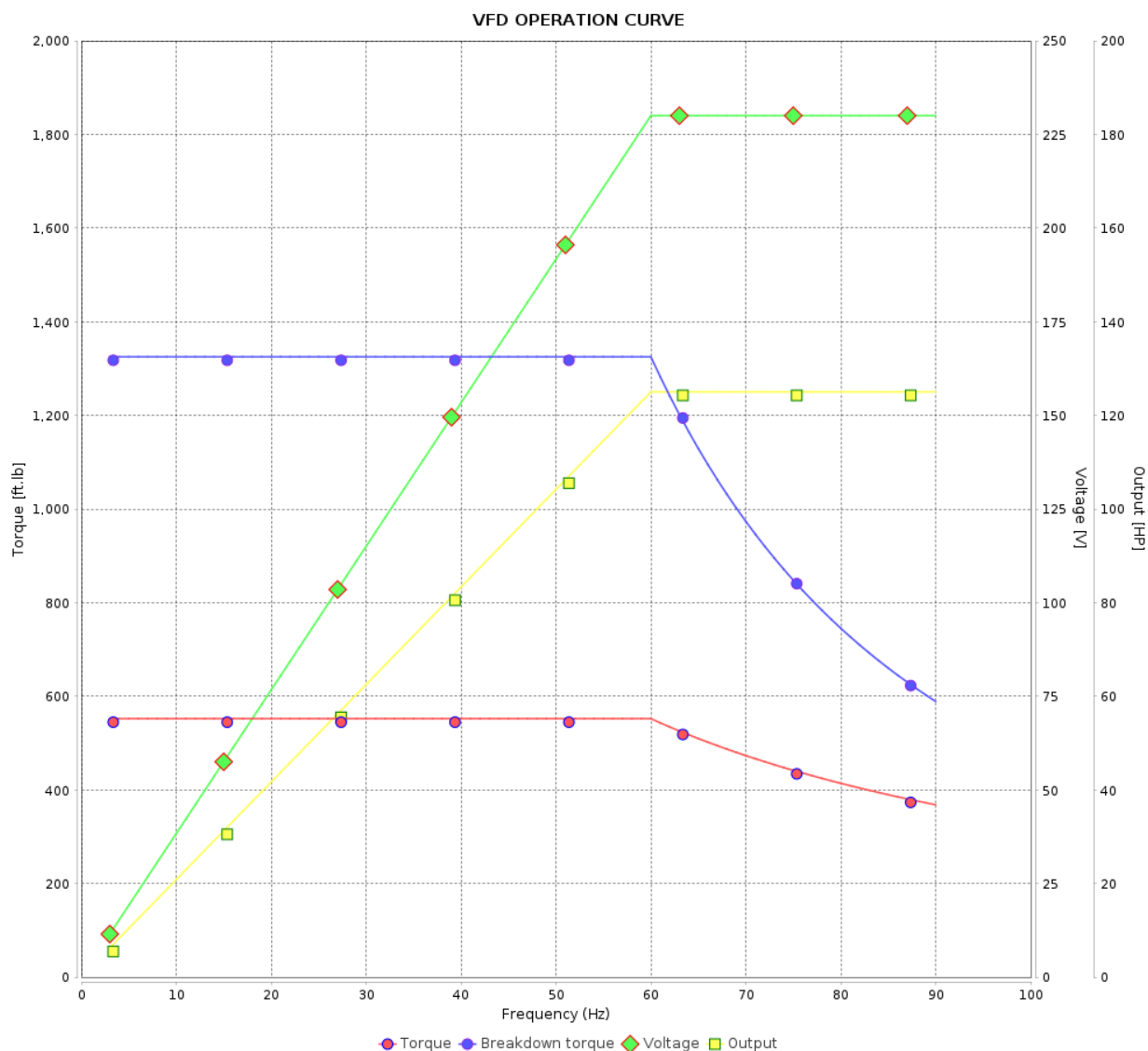


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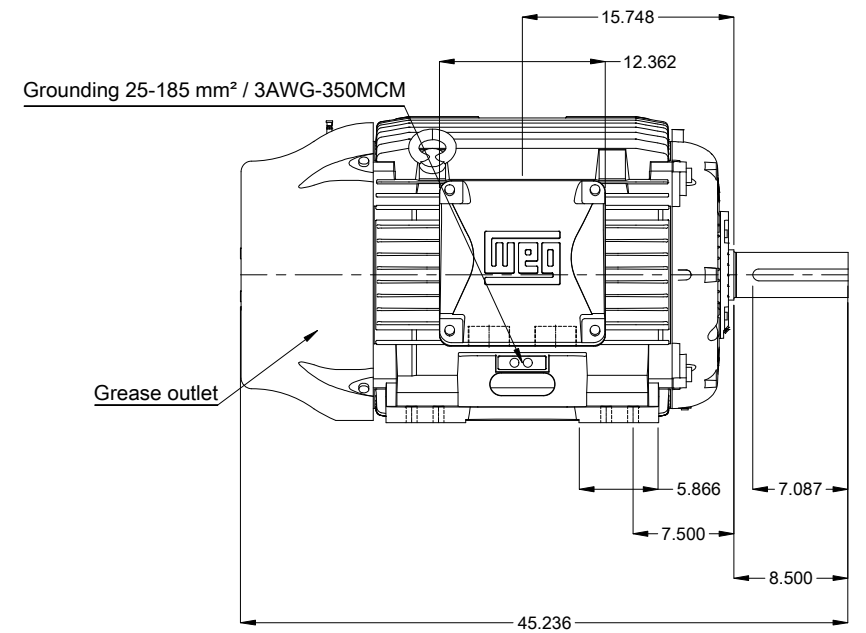


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DE Shaft End

0.875

0.875

2.880

3.3750

3.3740

DUNC 3/4\"-10 WEG WPR-7339

125 HP 06 Poles 60 Hz										A
						Scale 1 : 14				
						HYBRISUSER				00
ECM		LOC		SUMMARY OF MODIFICATIONS		EXECUTED		CHECKED		RELEASED
										DATE
										VER
EXECUTED		HYBRISUSER		 THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 444/5T IP55 TEFC		PREVIEW WDD 00				
CHECKED										
RELEASED										
REL. DATE										
						SHEET		1 / 1		