

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line	: W22 Close Coupled Pump JM NEMA Premium Efficiency Three-Phase	Product code :	12775267		
Frame	: 182/4JM	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ²	: 42.5 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.0206 kgm ²		
Design	: B				
Output [HP]	1.5	1.5	1.5	1.5	
Poles	6	6	6	6	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	5.08/2.54	2.68	2.62	2.64	
L. R. Amperes [A]	39.6/19.8	16.9	18.1	19.5	
LRC [A]	7.8x(Code M)	6.3x(Code J)	6.9x(Code K)	7.4x(Code L)	
No load current [A]	3.25/1.63	1.60	1.71	1.80	
Rated speed [RPM]	1170	955	960	965	
Slip [%]	2.50	4.50	4.00	3.50	
Rated torque [kgfm]	0.930	1.14	1.13	1.13	
Locked rotor torque [%]	320	250	300	330	
Breakdown torque [%]	400	290	330	370	
Service factor	1.25	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	28s (cold) 16s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	
Noise level ²	52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
Efficiency (%)	25%				
	50%	84.0	85.5	84.5	84.0
	75%	86.5	86.5	86.5	85.5
	100%	87.5	85.5	86.5	86.5
Power Factor	25%				
	50%	0.45	0.52	0.48	0.45
	75%	0.54	0.63	0.60	0.57
	100%	0.62	0.73	0.70	0.67
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	13.4	13.4	13.4	13.4
	P2 (0,5;1,0)	10.3	10.3	10.3	10.3
	P3 (0,25;1,0)	9.3	9.3	9.3	9.3
	P4 (0,9;0,5)	8.8	8.8	8.8	8.8
	P5 (0,5;0,5)	5.8	5.8	5.8	5.8
	P6 (0,5;0,25)	4.8	4.8	4.8	4.8
	P7 (0,25;0,25)	3.5	3.5	3.5	3.5
Bearing type	: Drive end : 6307 ZZ Non drive end : 6206 ZZ	Foundation loads			
Sealing	: V'Ring V'Ring	Max. traction	: 66 kgf		
Lubrication interval	: - -	Max. compression	: 108 kgf		
Lubricant amount	: - -				
Lubricant type	: Mobil Polyrex EM				
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).		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	
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Checked by			Page	Revision	
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Customer : _____

Notes
USABLE @208V 5.62A SF 1.15 SFA 6.46A

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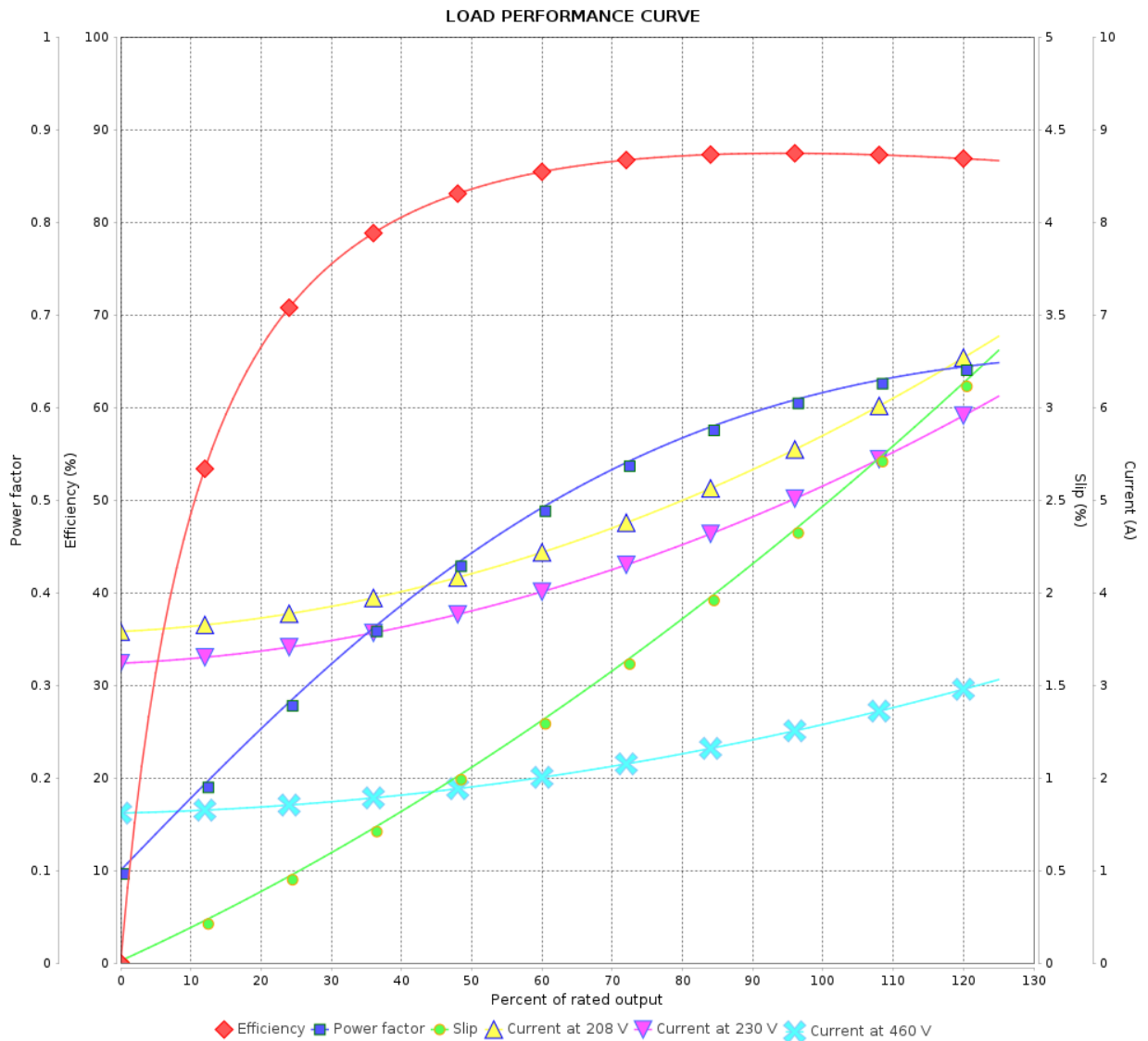
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JM
NEMA Premium Efficiency Three-Phase

Product code : 12775267



Performance : 230/460 V 60 Hz 6P

Rated current : 5.08/2.54 A
LRC : 7.8
Rated torque : 0.930 kgfm
Locked rotor torque : 320 %
Breakdown torque : 400 %
Rated speed : 1170 rpm

Moment of inertia (J) : 0.0206 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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Date				

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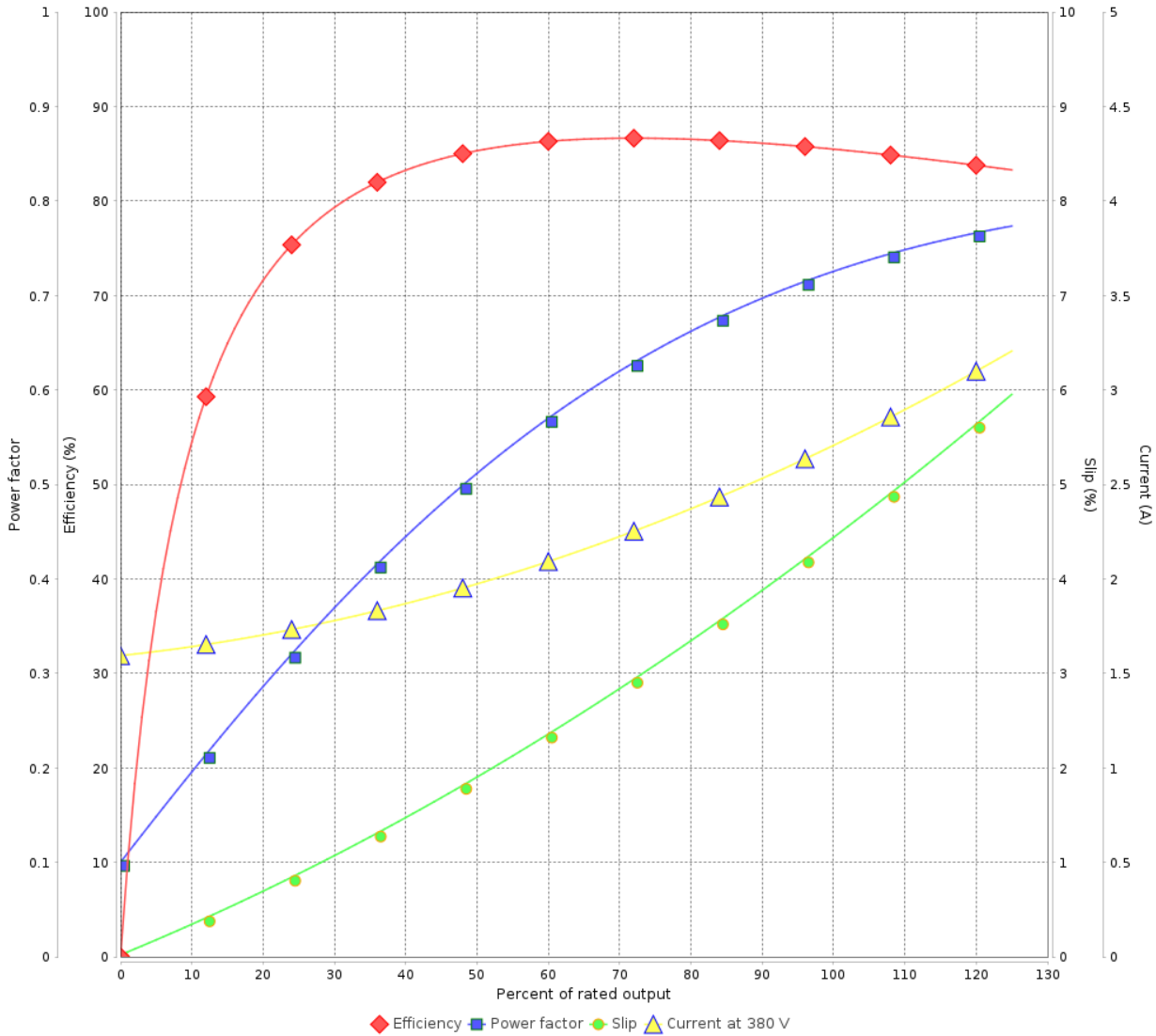
Three Phase Induction Motor - Squirrel Cage



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Performance : 380 V 50 Hz 6P IE4

Rated current	: 2.68 A	Moment of inertia (J)	: 0.0206 kgm ²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 1.14 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 955 rpm	Design	: B

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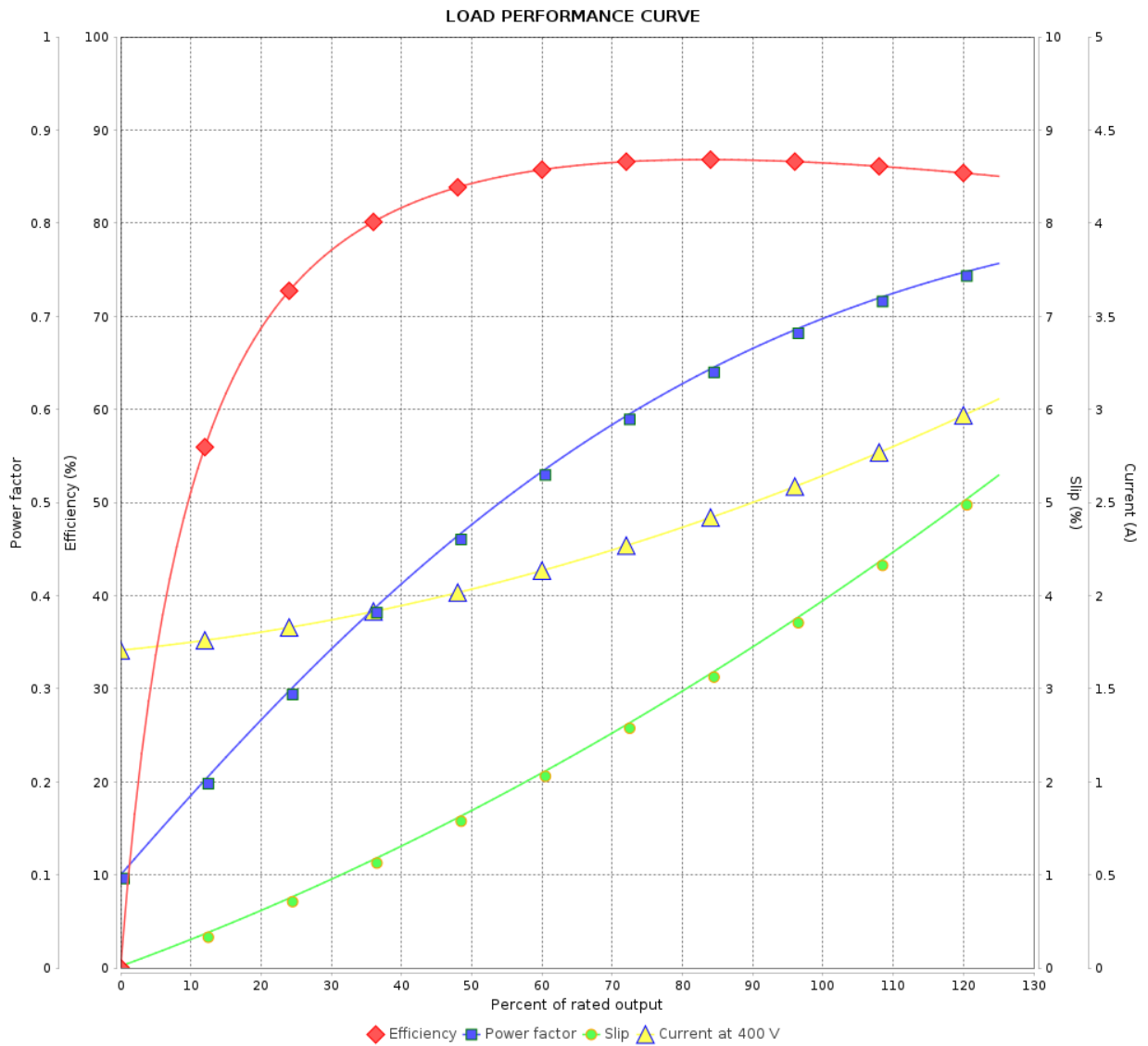
Three Phase Induction Motor - Squirrel Cage



Customer :

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NEMA Premium Efficiency Three-Phase

Product code : 12775267



Performance : 400 V 50 Hz 6P IE4

Rated current : 2.62 A
LRC : 6.9
Rated torque : 1.13 kgfm
Locked rotor torque : 300 %
Breakdown torque : 330 %
Rated speed : 960 rpm

Moment of inertia (J) : 0.0206 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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Date				

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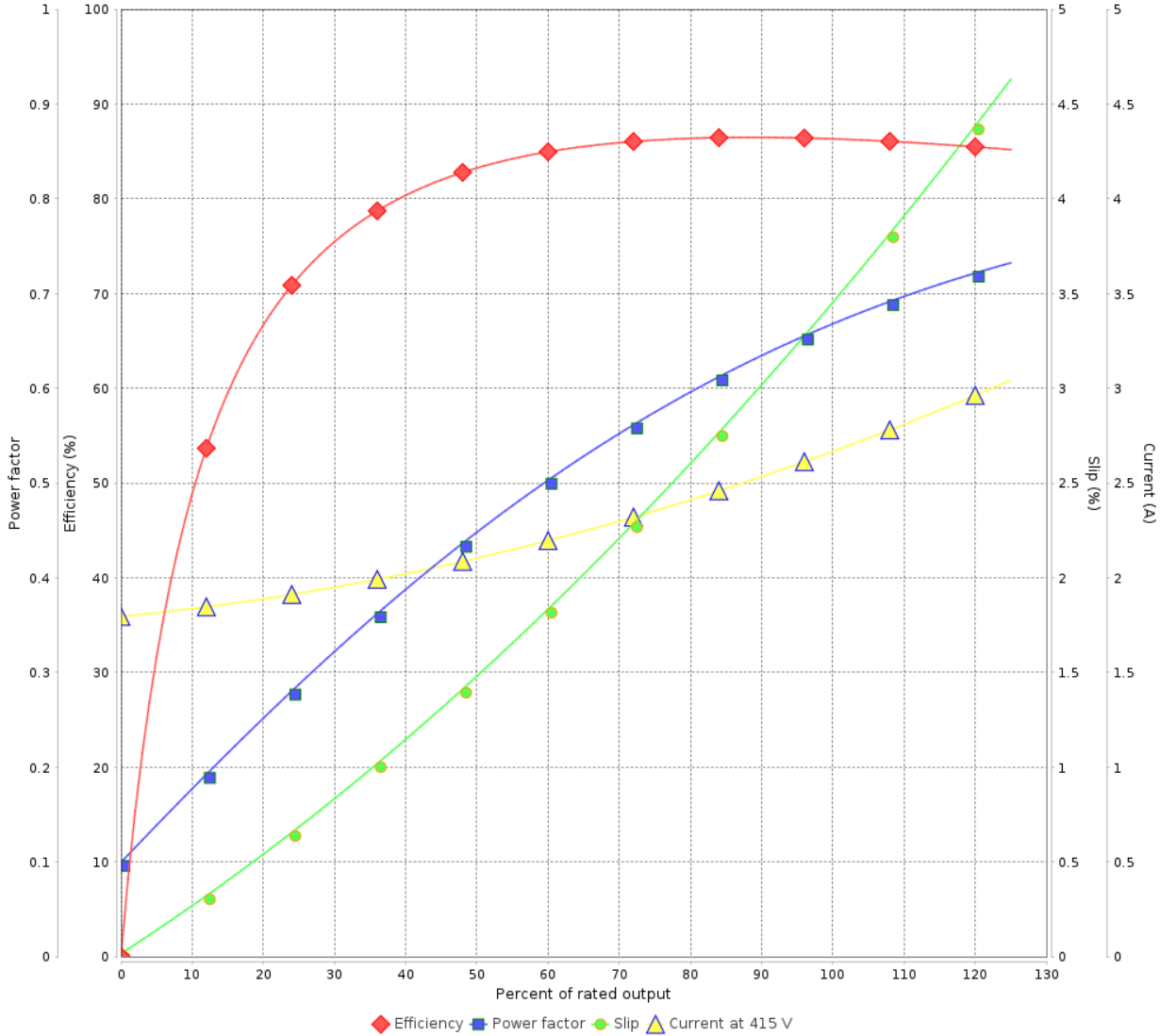
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 NEMA Premium Efficiency Three-Phase
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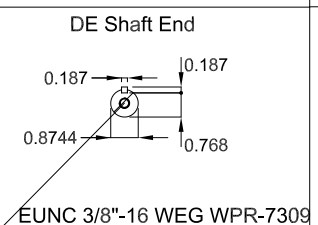
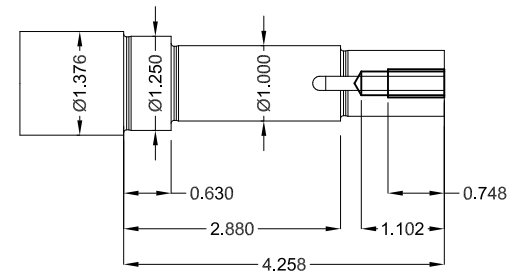
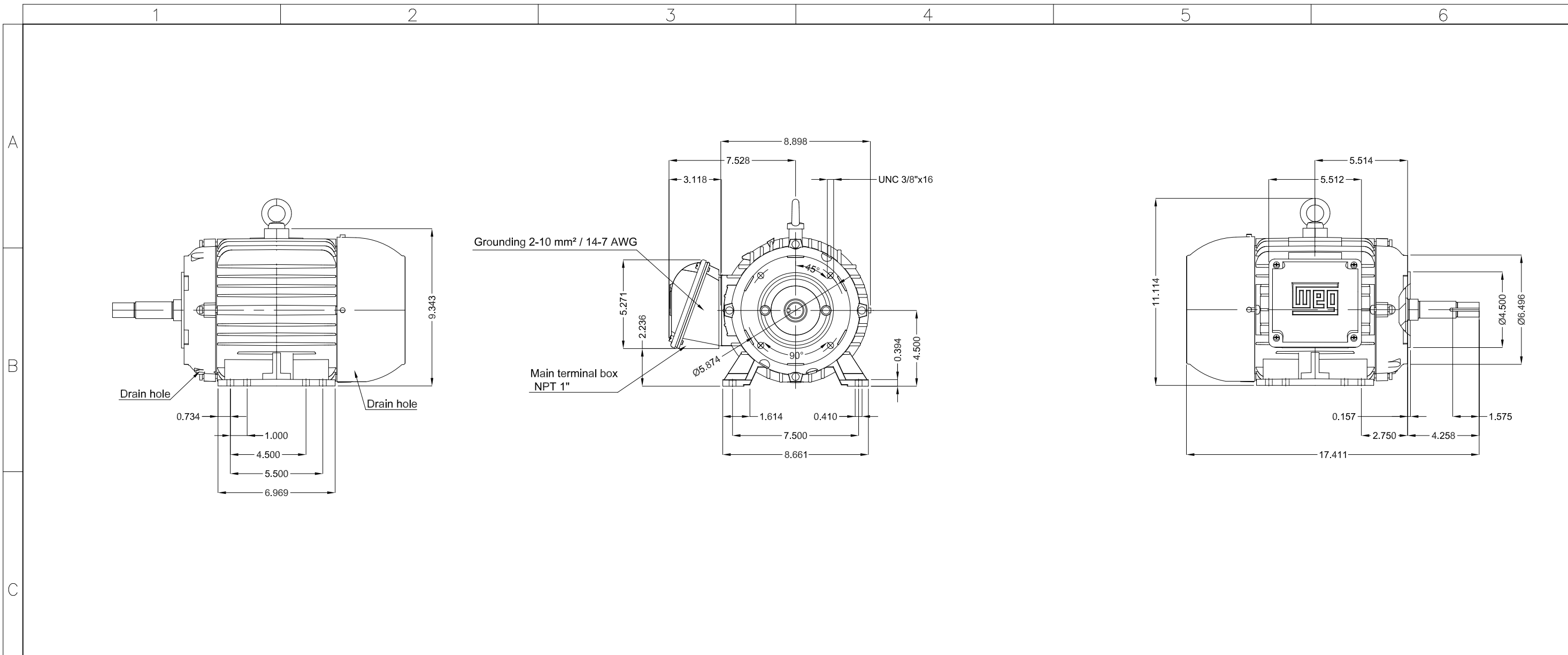
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Performance : 415 V 50 Hz 6P IE4

Rated current	: 2.64 A	Moment of inertia (J)	: 0.0206 kgm ²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 1.13 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.00
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 965 rpm	Design	: B

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Color RAL 5009
 Painting plan 207A
 Mounting NEMA F-1
 Mounting B34R(D)

EUNC 3/8"-16 WEG WPR-7309

1.5 HP 06 Poles 60 Hz										A	
ECM	LOC	SUMMARY OF MODIFICATIONS				HYBRISUSER	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR JM/JP/JET PUMP W22 NEMA PREM. EFF. FRAME 182/4JM IP55 TEFC									00
CHECKED											
RELEASED											
REL. DATE											
						PREVIEW		WDD 00		SHEET /	

