

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JM
NEMA Premium Efficiency Three-Phase
Product code : 12941830

Frame : 254/6JM	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 ³ : 139 kg
Protection degree : IP55	Moment of inertia (J) : 0.1867 kgm ²
Design : B	

Output [HP]	10	10	10	10
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	26.6/13.3	15.4	14.8	14.4
L. R. Amperes [A]	173/86.5	78.5	84.4	87.8
LRC [A]	6.5x(Code H)	5.1x(Code F)	5.7x(Code G)	6.1x(Code H)
No load current [A]	12.0/6.00	6.40	6.80	7.20
Rated speed [RPM]	1175	965	970	975
Slip [%]	2.08	3.50	3.00	2.50
Rated torque [kgfm]	6.17	7.50	7.48	7.44
Locked rotor torque [%]	229	170	200	220
Breakdown torque [%]	280	220	240	260
Service factor	1.25	1.00	1.15	1.15
Temperature rise	80 K	105 K	105 K	80 K
Locked rotor time	46s (cold) 26s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)
Noise level ²	59.0 dB(A)	57.0 dB(A)	57.0 dB(A)	57.0 dB(A)
Efficiency (%)	25%			
	50%	90.2	90.2	89.5
	75%	91.0	89.5	90.2
	100%	91.0	89.1	89.5
Power Factor	25%			
	50%	0.63	0.66	0.60
	75%	0.74	0.79	0.75
	100%	0.78	0.83	0.81

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

Losses (%)	P1 (0,9;1,0)	9.8	9.8	9.8	9.8
	P2 (0,5;1,0)	8.4	8.4	8.4	8.4
	P3 (0,25;1,0)	7.8	7.8	7.8	7.8
	P4 (0,9;0,5)	5.0	5.0	5.0	5.0
	P5 (0,5;0,5)	3.6	3.6	3.6	3.6
	P6 (0,5;0,25)	2.5	2.5	2.5	2.5
	P7 (0,25;0,25)	1.8	1.8	1.8	1.8

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6309 C3	6209 C3	Max. traction : 235 kgf
Sealing	: V'Ring	V'Ring	Max. compression : 374 kgf
Lubrication interval	: 20000 h	20000 h	
Lubricant amount	: 13 g	9 g	
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
Performed by				
Checked by				
Date	23/10/2024		Page 1 / 6	Revision

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Notes
USABLE @208V 28.5A SF 1.15 SFA 32.8A

Rev.	Changes Summary		Performed	Checked	Date
Performed by			Page 2 / 6		Revision
Checked by					
Date	23/10/2024				

LOAD PERFORMANCE CURVE

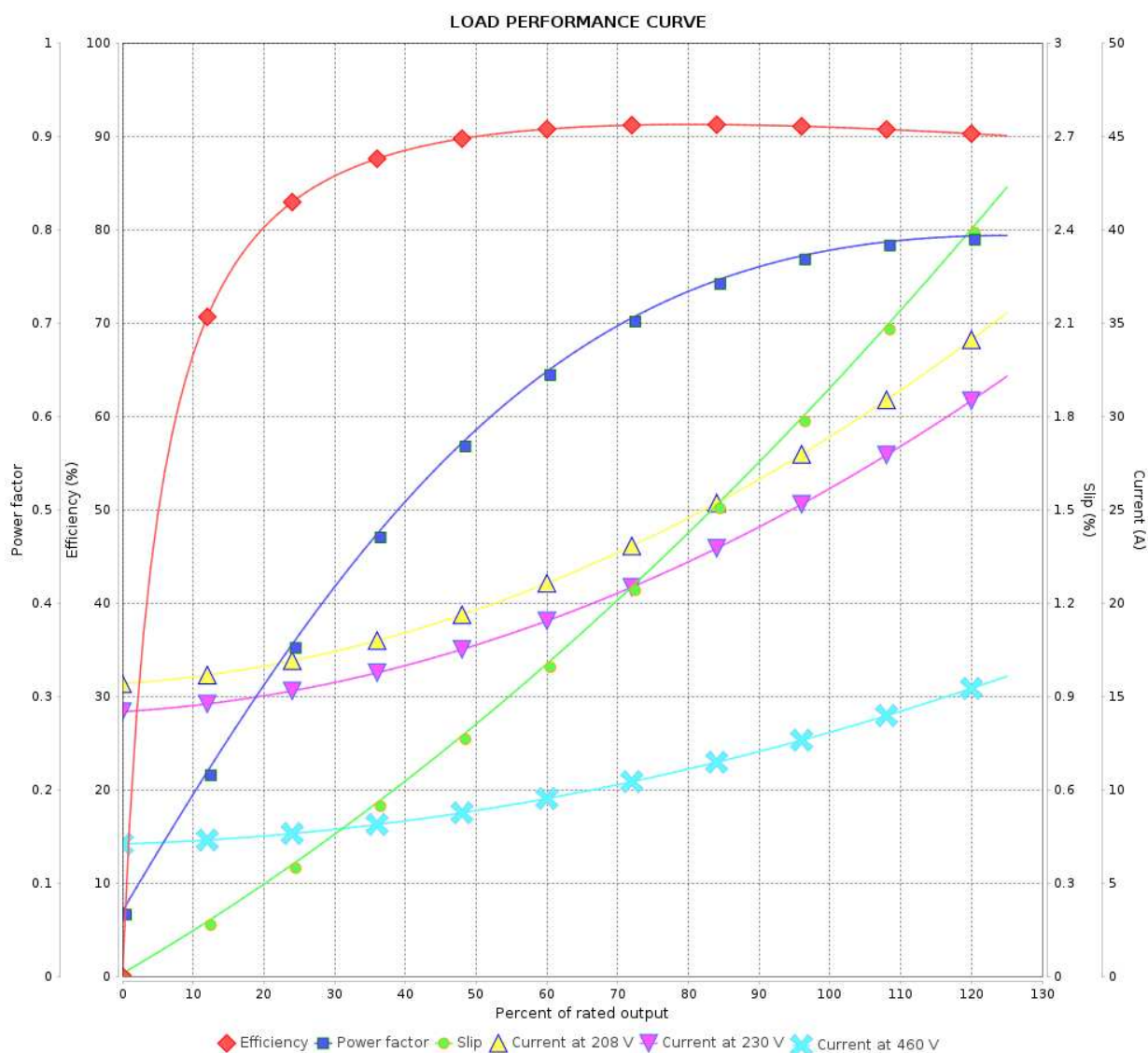
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12941830



Performance : 230/460 V 60 Hz 6P

Rated current : 26.6/13.3 A
LRC : 6.5
Rated torque : 6.17 kgfm
Locked rotor torque : 229 %
Breakdown torque : 280 %
Rated speed : 1175 rpm

Moment of inertia (J) : 0.1867 kgm²
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	23/10/2024			

LOAD PERFORMANCE CURVE

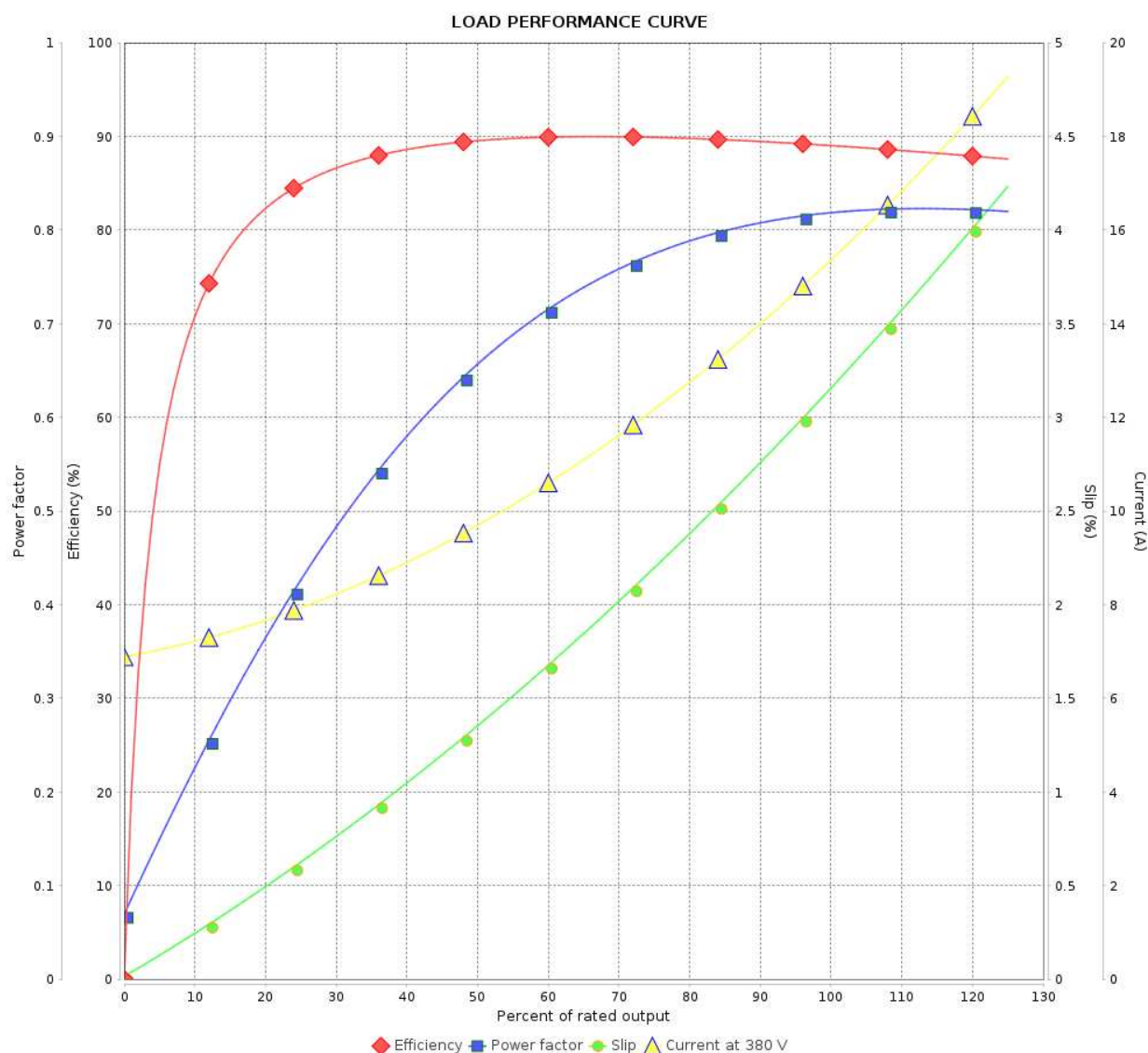
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12941830



Performance : 380 V 50 Hz 6P IE3

Rated current : 15.4 A
LRC : 5.1
Rated torque : 7.50 kgfm
Locked rotor torque : 170 %
Breakdown torque : 220 %
Rated speed : 965 rpm

Moment of inertia (J) : 0.1867 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page 4 / 6	Revision
Checked by					
Date	23/10/2024				

LOAD PERFORMANCE CURVE

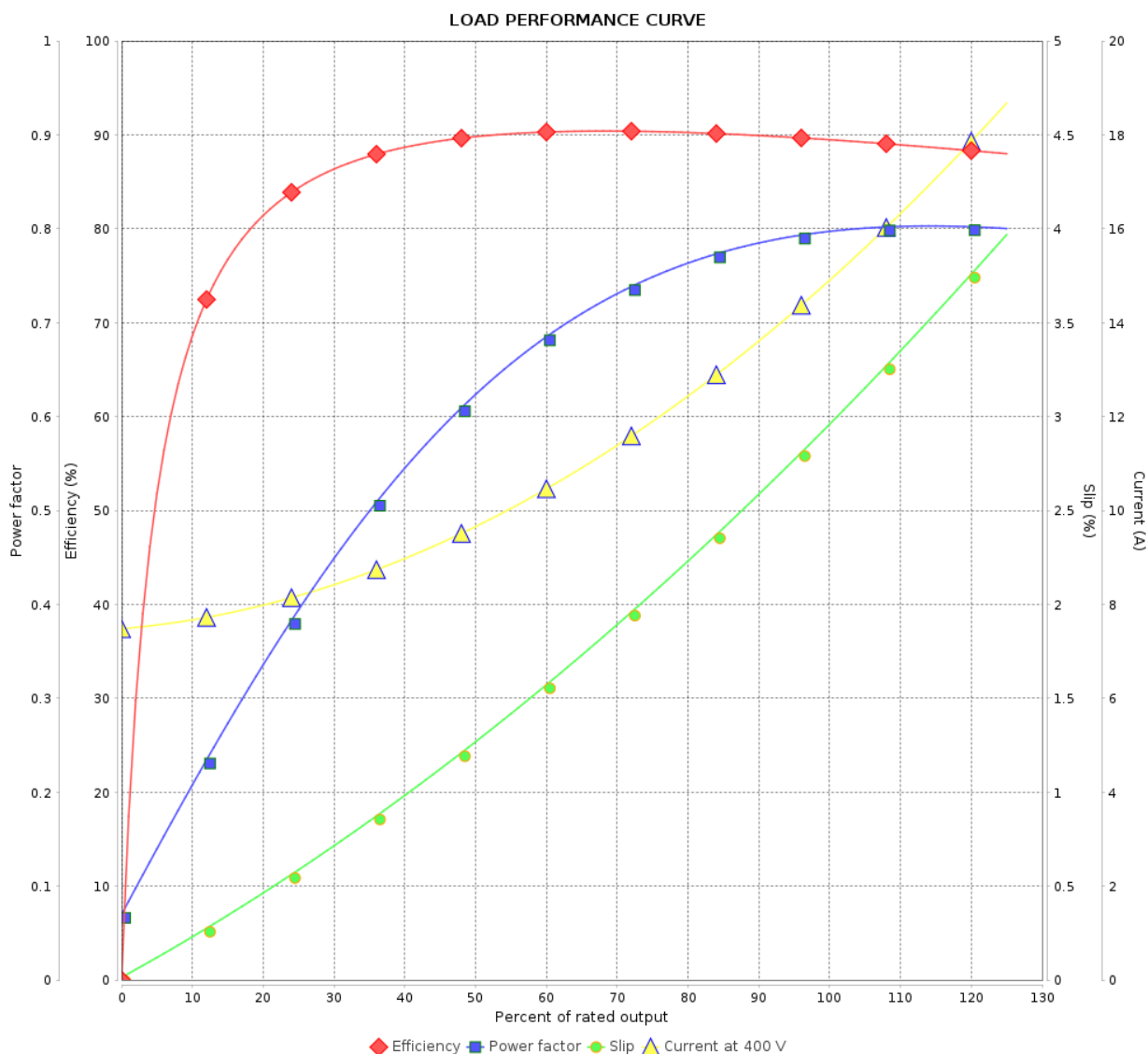
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12941830



Performance : 400 V 50 Hz 6P IE3

Rated current : 14.8 A
LRC : 5.7
Rated torque : 7.48 kgfm
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 970 rpm

Moment of inertia (J) : 0.1867 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 105 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 5 / 6 Revision		
Checked by				
Date	23/10/2024			

LOAD PERFORMANCE CURVE

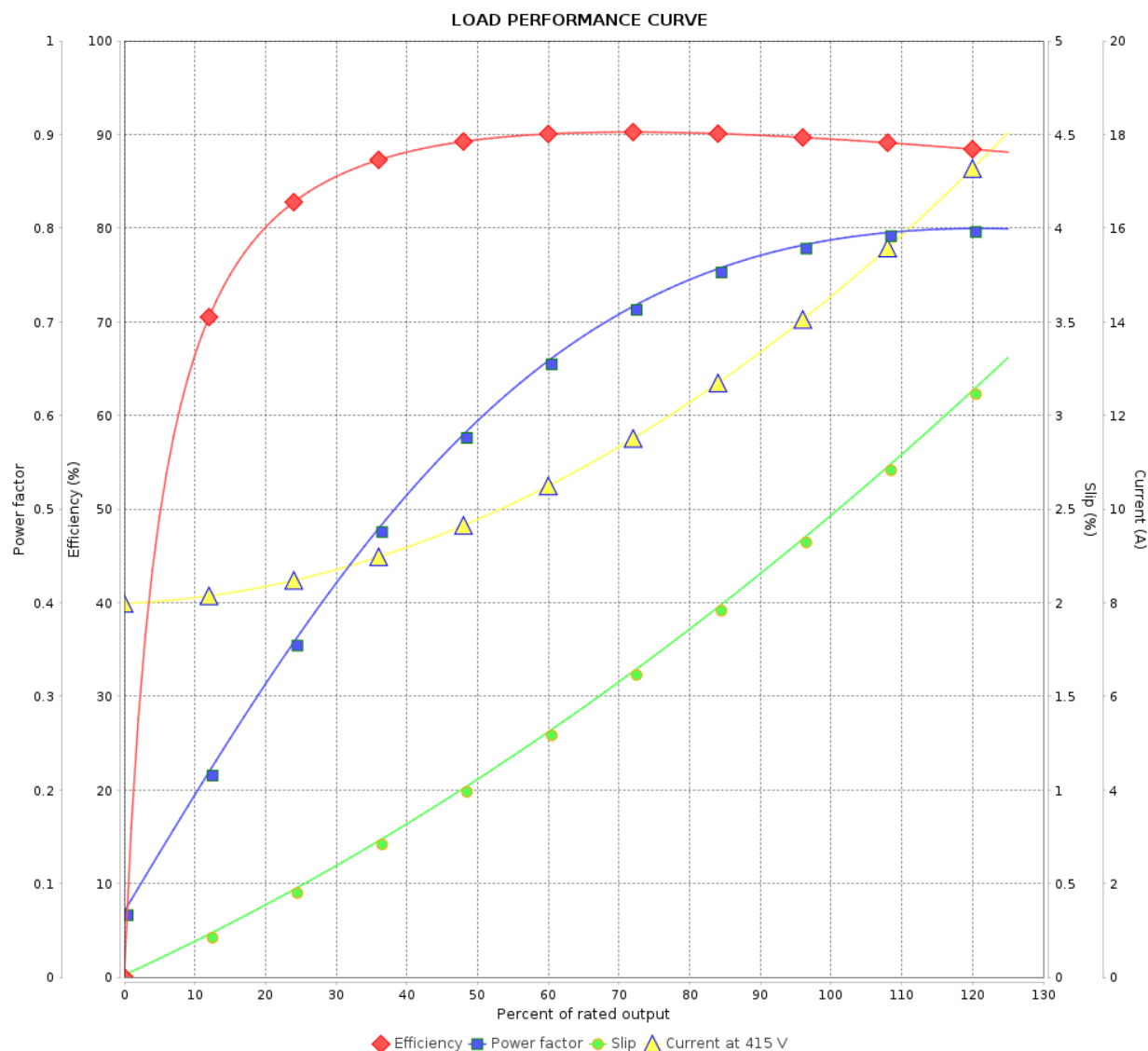
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 12941830

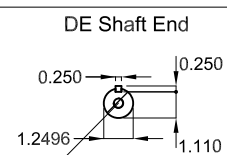
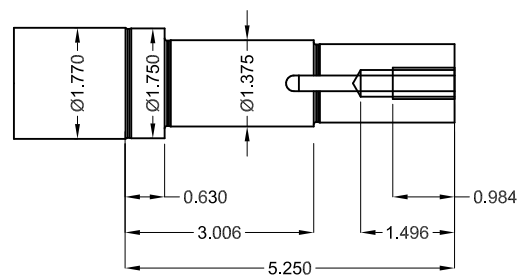
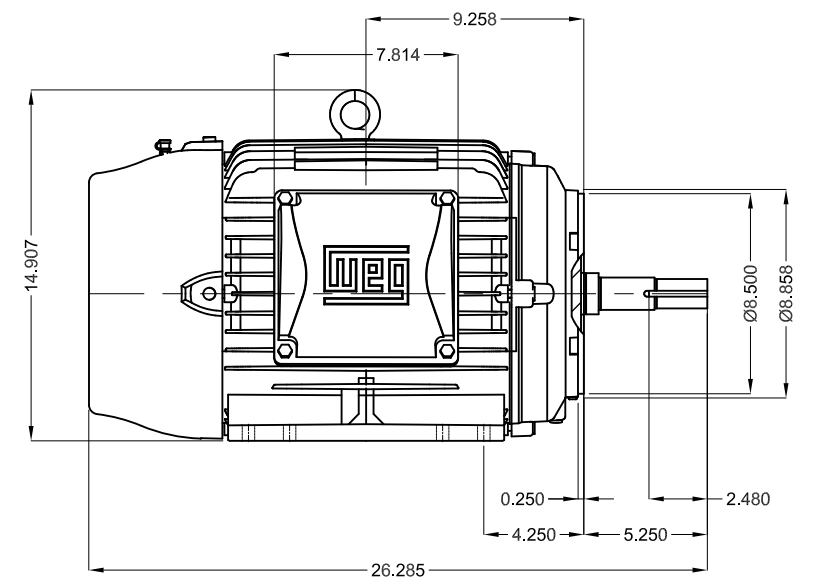
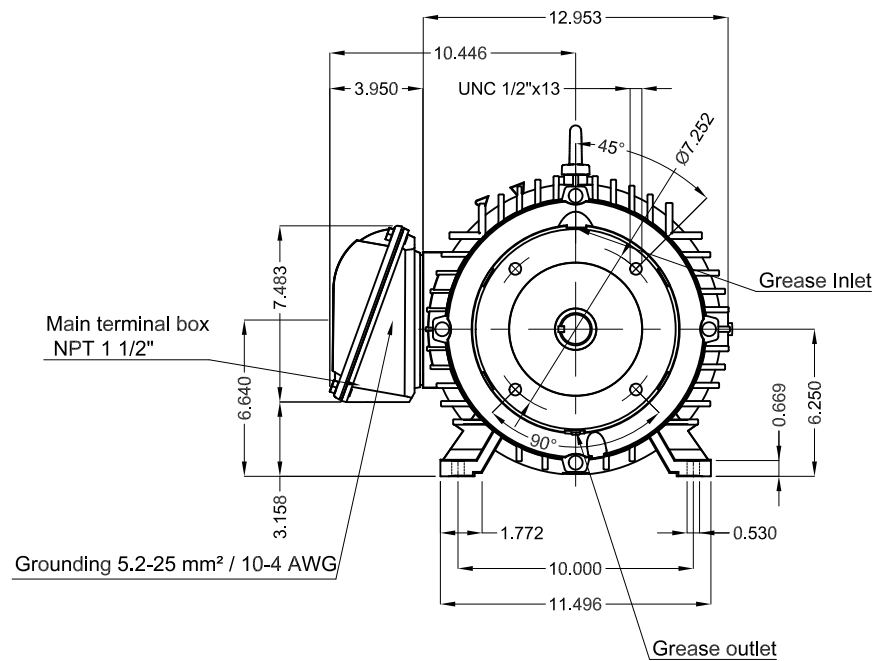


Performance : 415 V 50 Hz 6P IE3

Rated current : 14.4 A
LRC : 6.1
Rated torque : 7.44 kgfm
Locked rotor torque : 220 %
Breakdown torque : 260 %
Rated speed : 975 rpm

Moment of inertia (J) : 0.1867 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 6 / 6Revision		
Checked by				
Date	23/10/2024			



Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B34R(D)

10 HP 06 Poles 60 Hz										A
						HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	HYBRISUSER		THREE PH. MOTOR JM/JP/JET PUMP W22 NEMA PREM. EFF. FRAME 254/6JM IP55 TEFC			PREVIEW WDD 00				
CHECKED										
RELEASED										
REL. DATE										
							SHEET		/	