

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 11431462

Frame : 143/5T	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 : 22.0 kg
Protection degree : IP56	Moment of inertia (J) : 0.0060 kgm ²
Design : B	

Output [HP]	1.5	1.5	1.5	1.5
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	2.10	2.42	2.39	2.39
L. R. Amperes [A]	17.6	16.2	17.4	17.9
LRC [A]	8.4x(Code L)	6.7x(Code J)	7.3x(Code K)	7.5x(Code K)
No load current [A]	1.20	1.20	1.40	1.50
Rated speed [RPM]	1755	1440	1450	1450
Slip [%]	2.50	4.00	3.33	3.33
Rated torque [kgfm]	0	0	0	0
Locked rotor torque [%]	290	250	250	280
Breakdown torque [%]	350	280	290	320
Service factor	1.25	1.25	1.25	1.25
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²	51.0 dB(A)	49.0 dB(A)	49.0 dB(A)	49.0 dB(A)
Efficiency (%)	25%			
	50%	82.5	82.5	81.0
	75%	85.5	84.0	84.0
	100%	86.5	84.1	84.1
Power Factor	25%			
	50%	0.54	0.61	0.53
	75%	0.67	0.74	0.67
	100%	0.76	0.82	0.76

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

Losses (%)	P1 (0,9;1,0)	14.7	17.8	17.8	17.8
	P2 (0,5;1,0)	12.1	14.6	14.6	14.6
	P3 (0,25;1,0)	12.0	14.5	14.5	14.5
	P4 (0,9;0,5)	8.7	10.6	10.6	10.6
	P5 (0,5;0,5)	6.1	7.4	7.4	7.4
	P6 (0,5;0,25)	4.9	5.9	5.9	5.9
	P7 (0,25;0,25)	3.6	4.4	4.4	4.4

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6205 C3	6204 C3	Max. traction : 56 kgf
Sealing :	Inpro/Seal	Inpro/Seal	Max. compression : 81 kgf
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	4 g	4 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).
 (3) Approximate weight subject to changes after manufacturing process.

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

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Customer :

Notes

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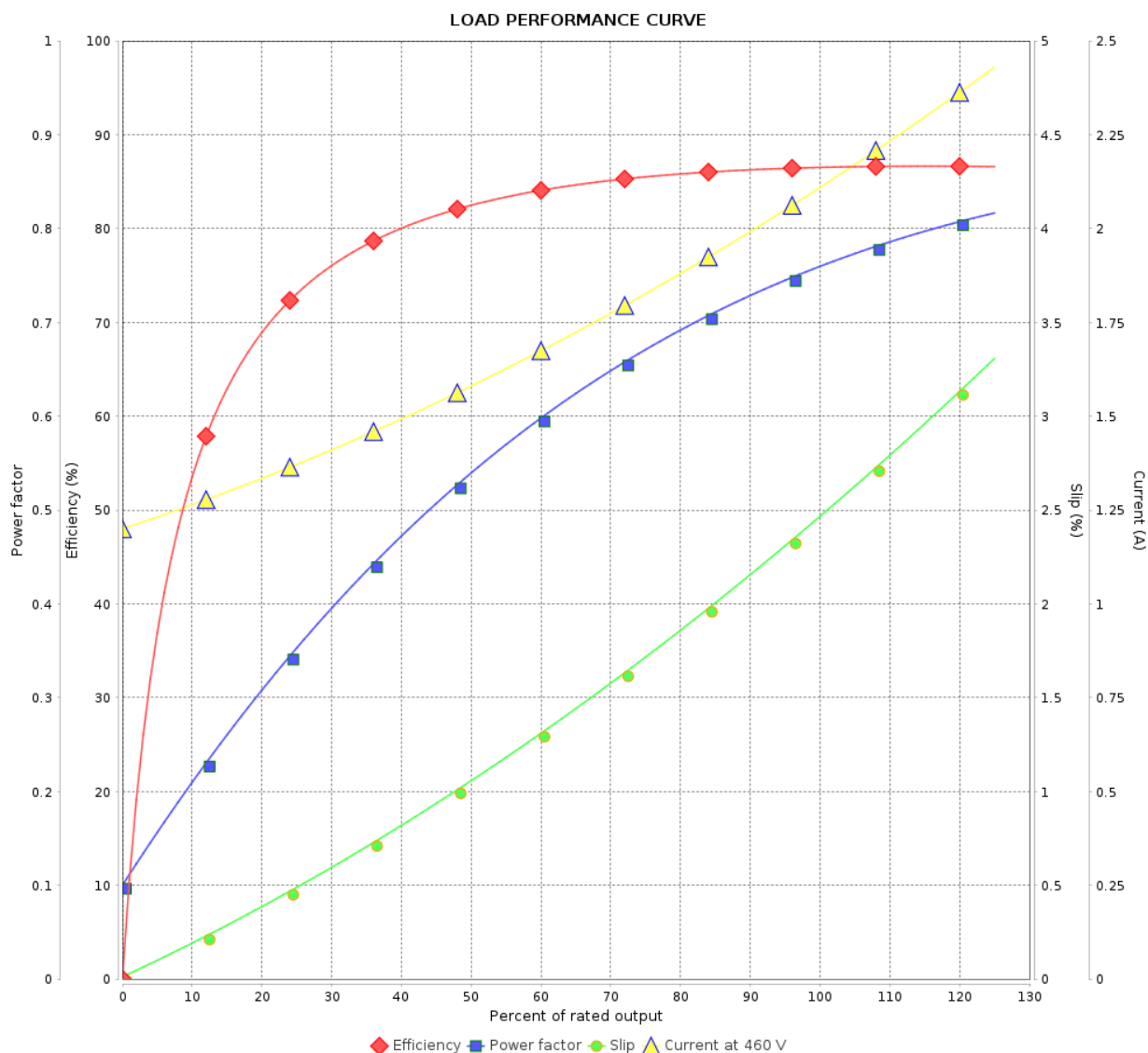
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium
Efficiency Three-Phase

Product code : 11431462



Performance : 460 V 60 Hz 4P

Rated current : 2.10 A
LRC : 8.4
Rated torque : 0 kgfm
Locked rotor torque : 290 %
Breakdown torque : 350 %
Rated speed : 1755 rpm

Moment of inertia (J) : 0.0060 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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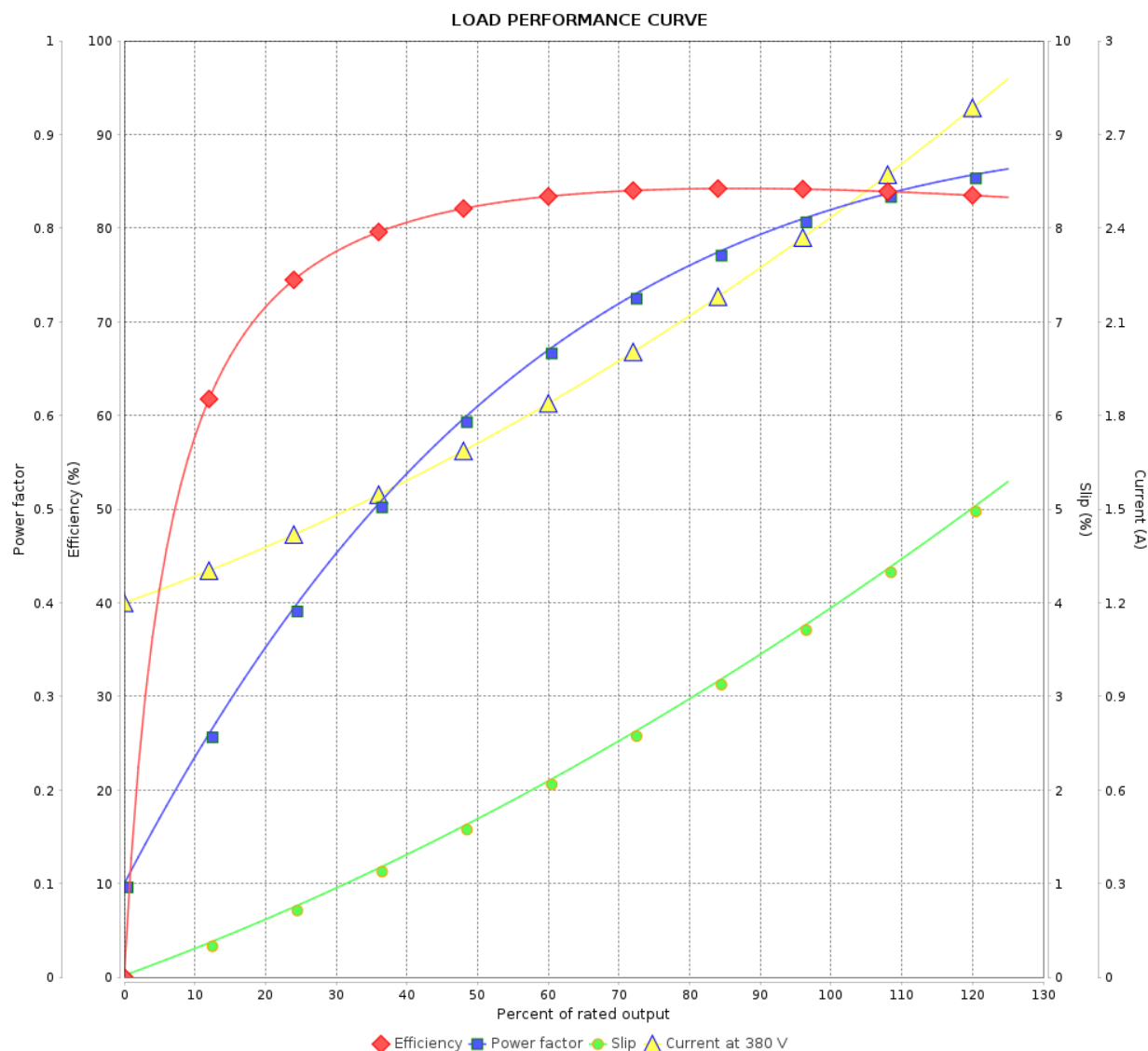
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium
Efficiency Three-Phase

Product code : 11431462



Performance : 380 V 50 Hz 4P IE3

Rated current : 2.42 A
LRC : 6.7
Rated torque : 0 kgfm
Locked rotor torque : 250 %
Breakdown torque : 280 %
Rated speed : 1440 rpm

Moment of inertia (J) : 0.0060 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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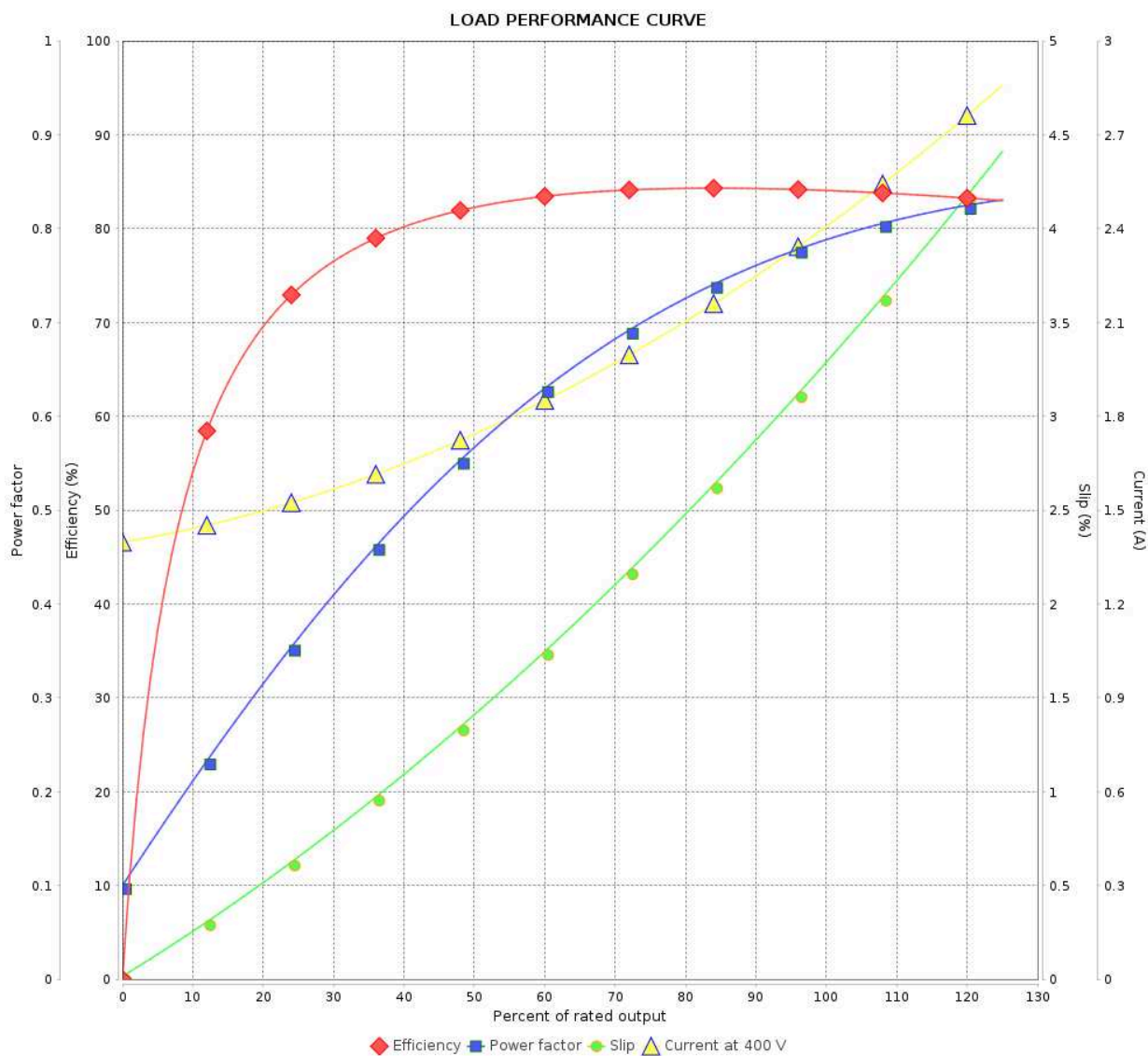
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium
Efficiency Three-Phase

Product code : 11431462



Performance : 400 V 50 Hz 4P IE3

Rated current : 2.39 A
LRC : 7.3
Rated torque : 0 kgfm
Locked rotor torque : 250 %
Breakdown torque : 290 %
Rated speed : 1450 rpm

Moment of inertia (J) : 0.0060 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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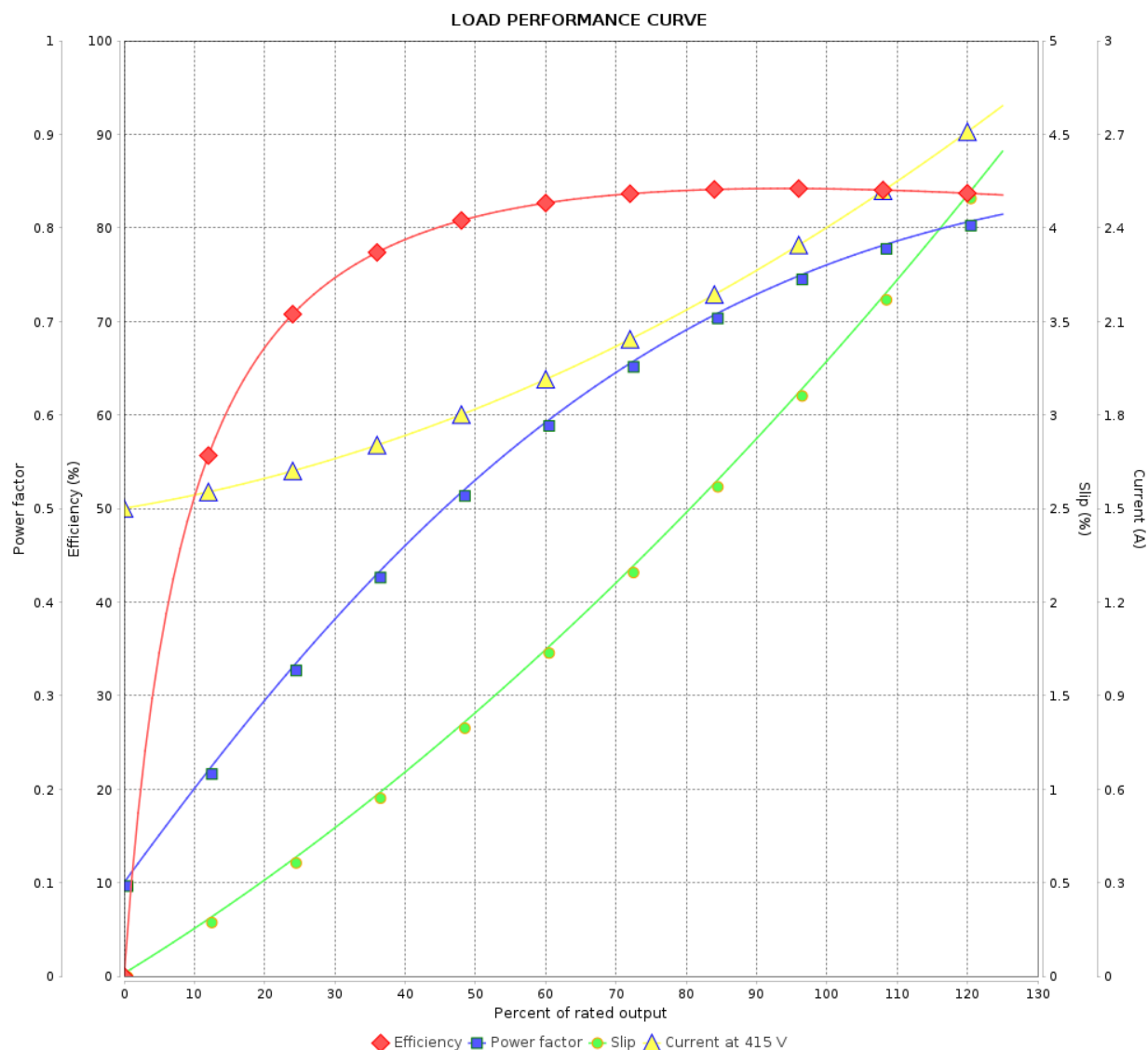
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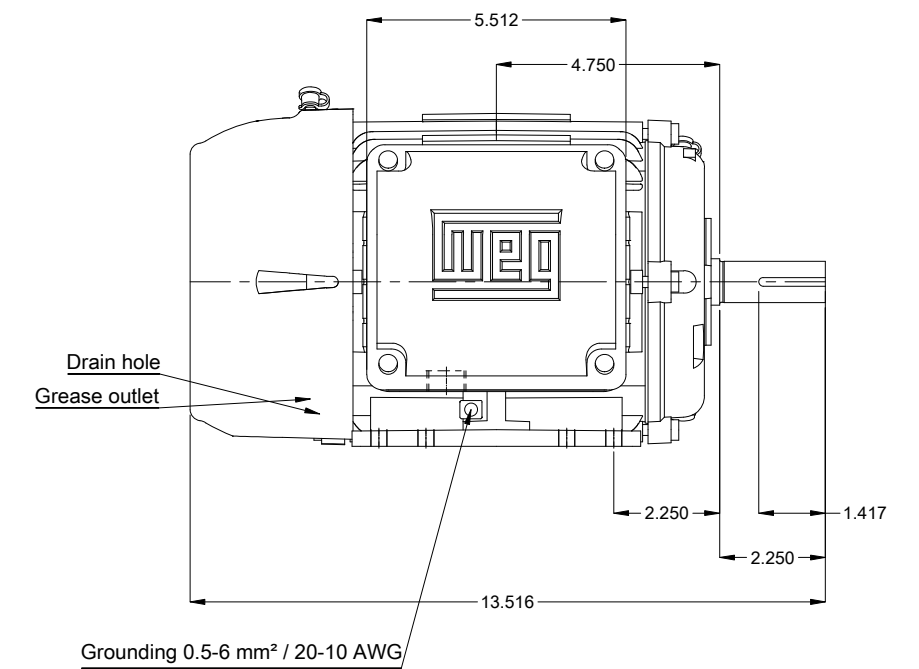
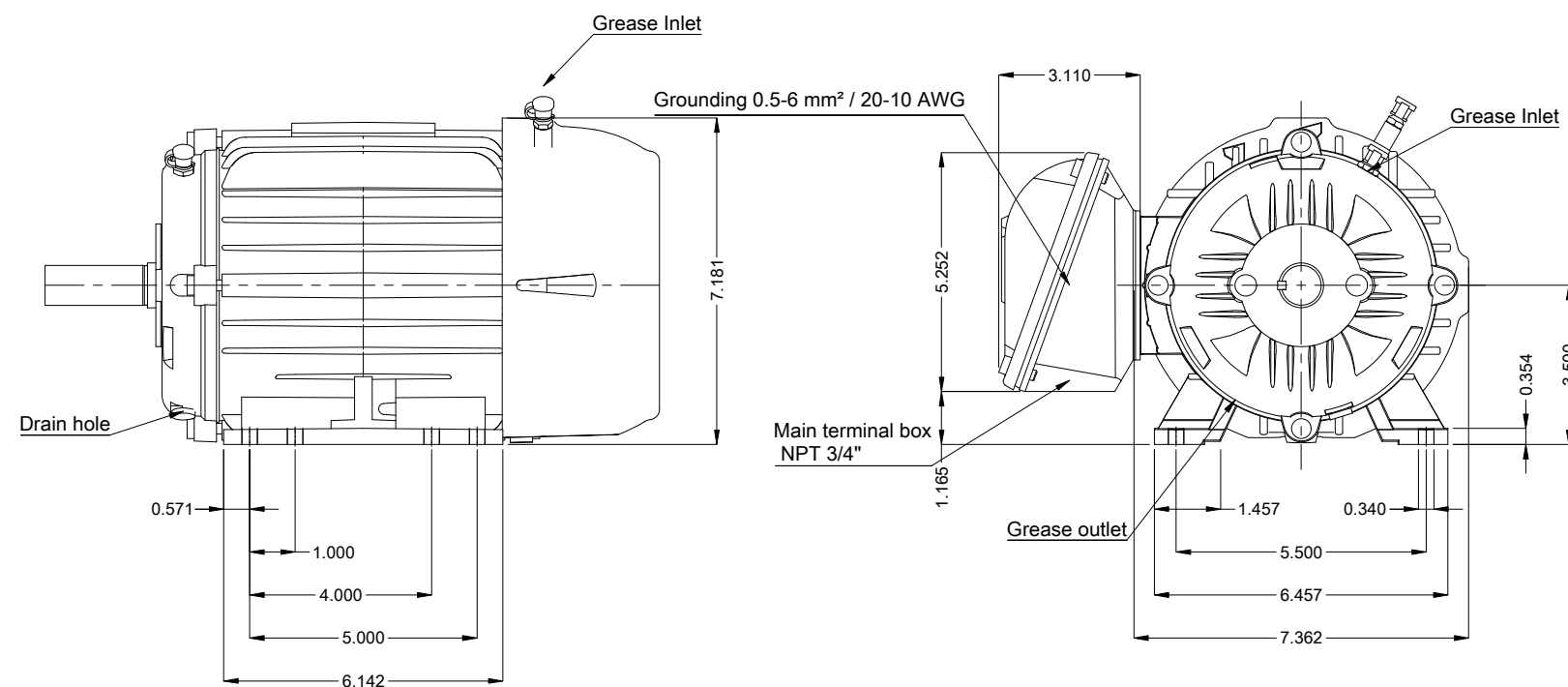


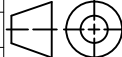
Performance : 415 V 50 Hz 4P IE3

Rated current : 2.39 A
LRC : 7.5
Rated torque : 0 kgfm
Locked rotor torque : 280 %
Breakdown torque : 320 %
Rated speed : 1450 rpm

Moment of inertia (J) : 0.0060 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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1.5 HP 04 Poles 60 Hz										A
						Scale 1 : 4				
					HYBRISUSER				00	
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	HYBRISUSER	 THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF. FRAME 143/5T IP56 TEFC			PREVIEW					
CHECKED					WDD 00					
RELEASED										
REL. DATE					SHEET 1 / 1					

Grease outlet on endshields
Color RAL 5009
Painting plan 202E
Mounting B3R(D)

