

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12424295

Frame : 284/6T	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 : 181 kg
Protection degree : IP56	Moment of inertia (J) : 0.2153 kgm ²
Design : B	

Output [HP]	25	25	25	25
Poles	4	4	4	4
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	29.5	35.9	34.3	33.2
L. R. Amperes [A]	183	190	189	196
LRC [A]	6.2x(Code G)	5.3x(Code F)	5.5x(Code F)	5.9x(Code G)
No load current [A]	11.0	11.0	11.7	12.4
Rated speed [RPM]	1770	1455	1460	1465
Slip [%]	1.67	3.00	2.67	2.33
Rated torque [kgfm]	10.3	12.5	12.4	12.4
Locked rotor torque [%]	240	180	200	220
Breakdown torque [%]	270	210	240	260
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	105 K	105 K	105 K
Locked rotor time	43s (cold) 24s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²	63.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
Efficiency (%)	25%			
	50%	92.4	92.4	92.4
	75%	93.0	91.7	92.4
	100%	93.6	91.0	92.4
Power Factor	25%			
	50%	0.70	0.76	0.70
	75%	0.80	0.84	0.80
	100%	0.84	0.86	0.84

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

Losses (%)	P1 (0,9;1,0)	6.8	6.8	6.8	6.8
	P2 (0,5;1,0)	5.8	5.8	5.8	5.8
	P3 (0,25;1,0)	5.3	5.3	5.3	5.3
	P4 (0,9;0,5)	3.1	3.1	3.1	3.1
	P5 (0,5;0,5)	2.2	2.2	2.2	2.2
	P6 (0,5;0,25)	1.4	1.4	1.4	1.4
	P7 (0,25;0,25)	1.0	1.0	1.0	1.0

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6311 C3	6211 C3	Max. traction : 370 kgf
Sealing :	Inpro/Seal	Inpro/Seal	Max. compression : 551 kgf
Lubrication interval :	20000 h	20000 h	
Lubricant amount :	18 g	11 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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Performed by				
Checked by				
Date	27/10/2024			

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Notes

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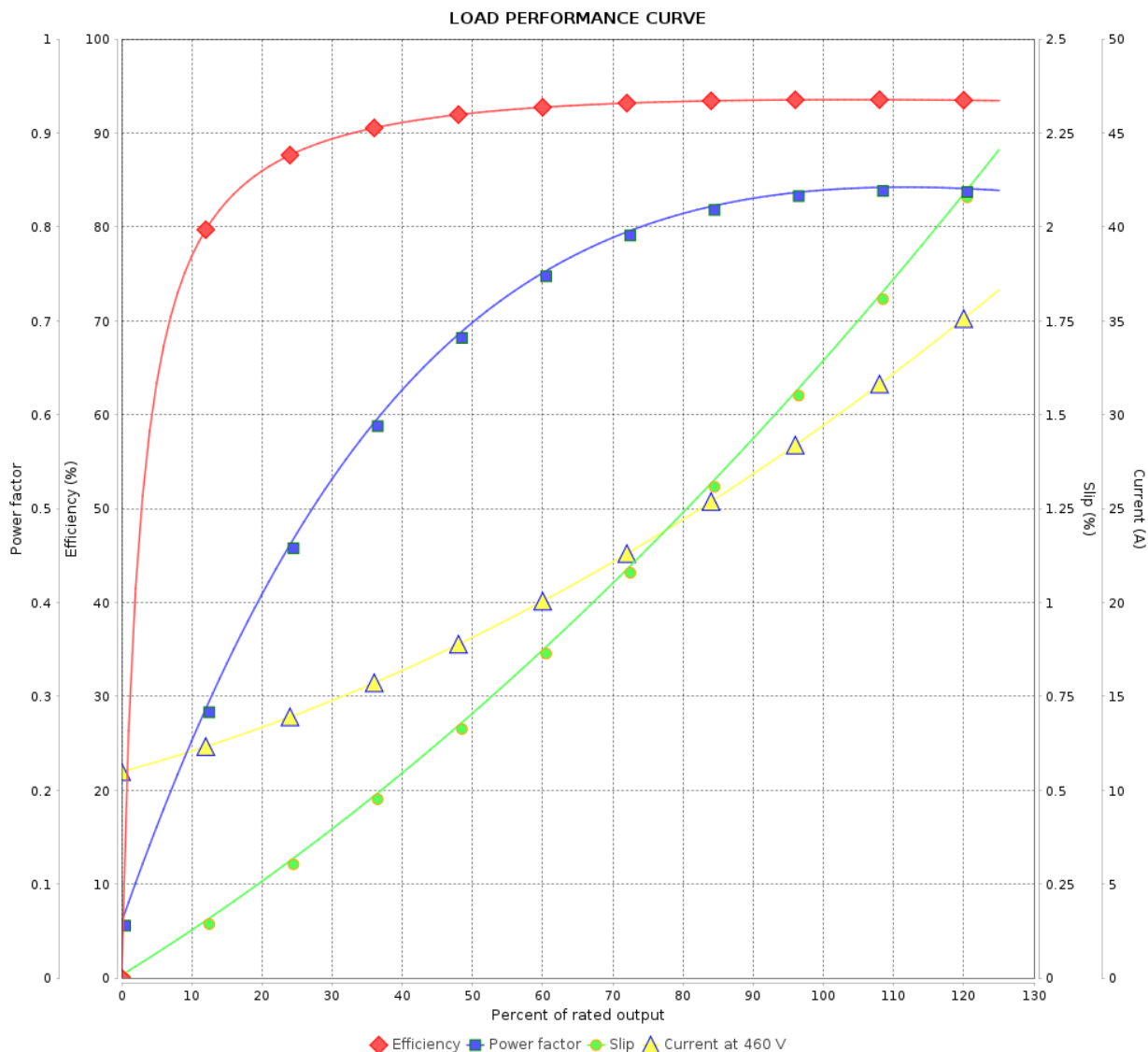
Three Phase Induction Motor - Squirrel Cage



Customer :

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Efficiency Three-Phase

Product code : 12424295



Performance : 460 V 60 Hz 4P

Rated current : 29.5 A
LRC : 6.2
Rated torque : 10.3 kgfm
Locked rotor torque : 240 %
Breakdown torque : 270 %
Rated speed : 1770 rpm

Moment of inertia (J) : 0.2153 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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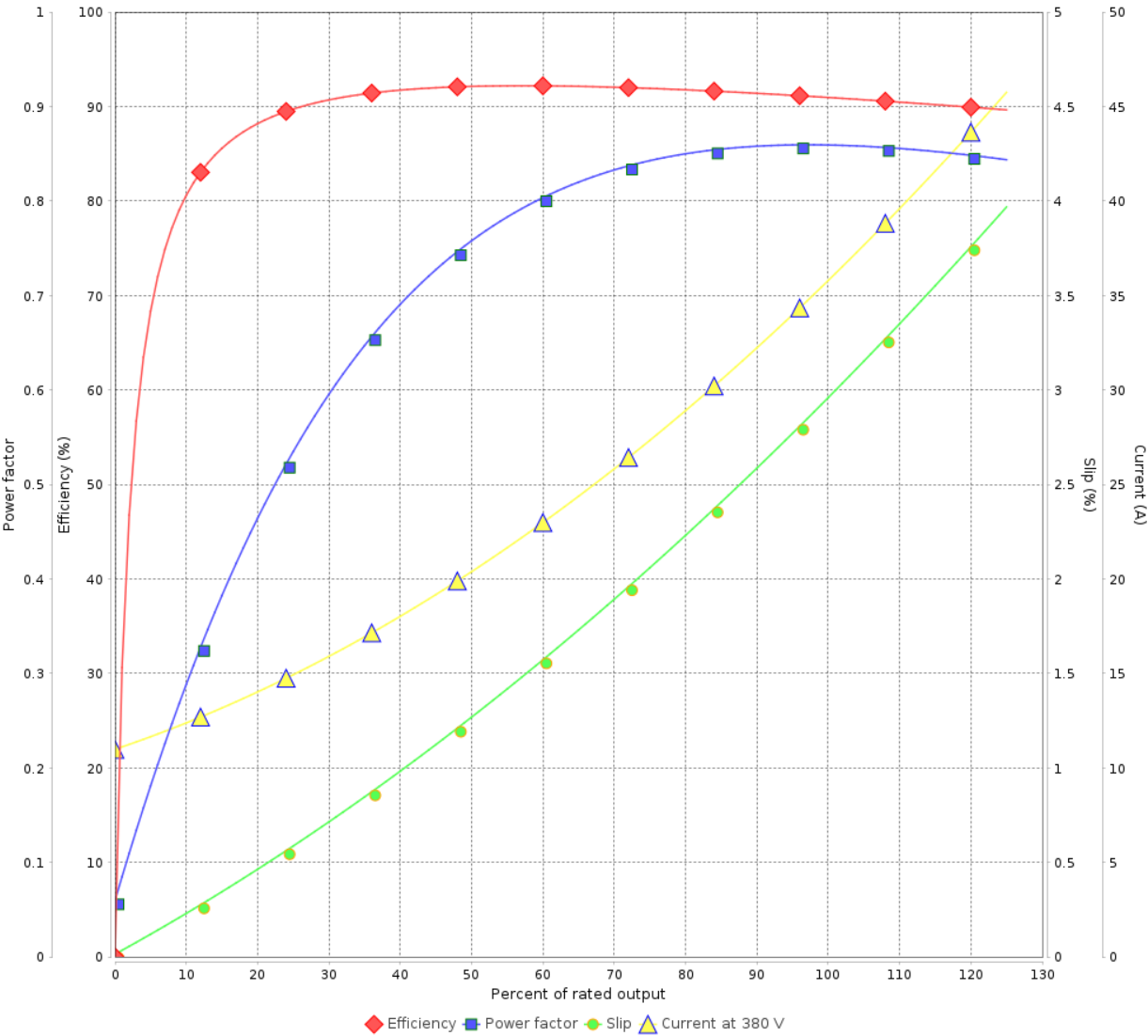
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 12424295

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Performance : 380 V 50 Hz 4P IE1

Rated current	: 35.9 A	Moment of inertia (J)	: 0.2153 kgm ²
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 12.5 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 1455 rpm	Design	: B

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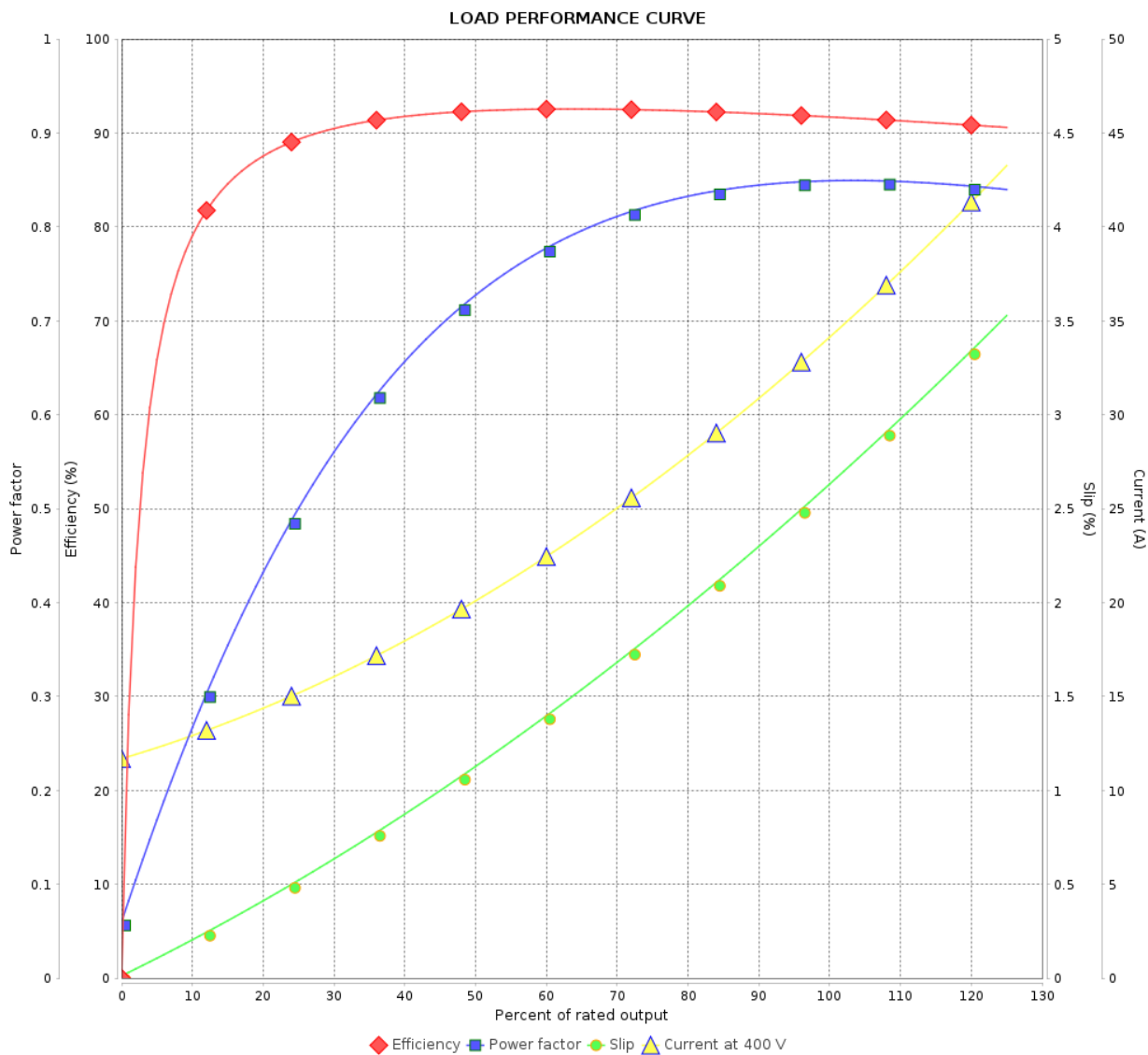
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 400 V 50 Hz 4P IE2

Rated current : 34.3 A
LRC : 5.5
Rated torque : 12.4 kgfm
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 1460 rpm

Moment of inertia (J) : 0.2153 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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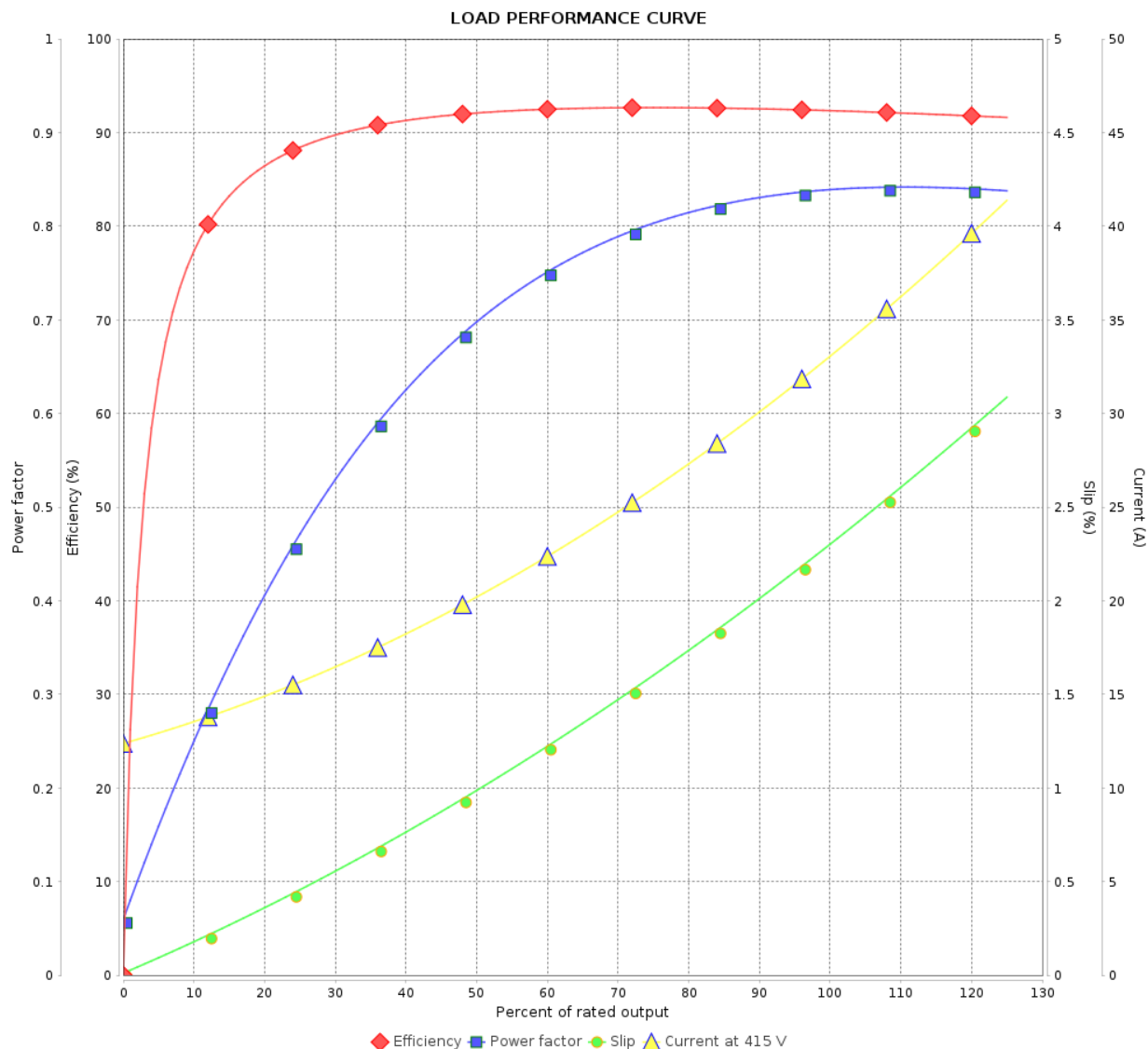
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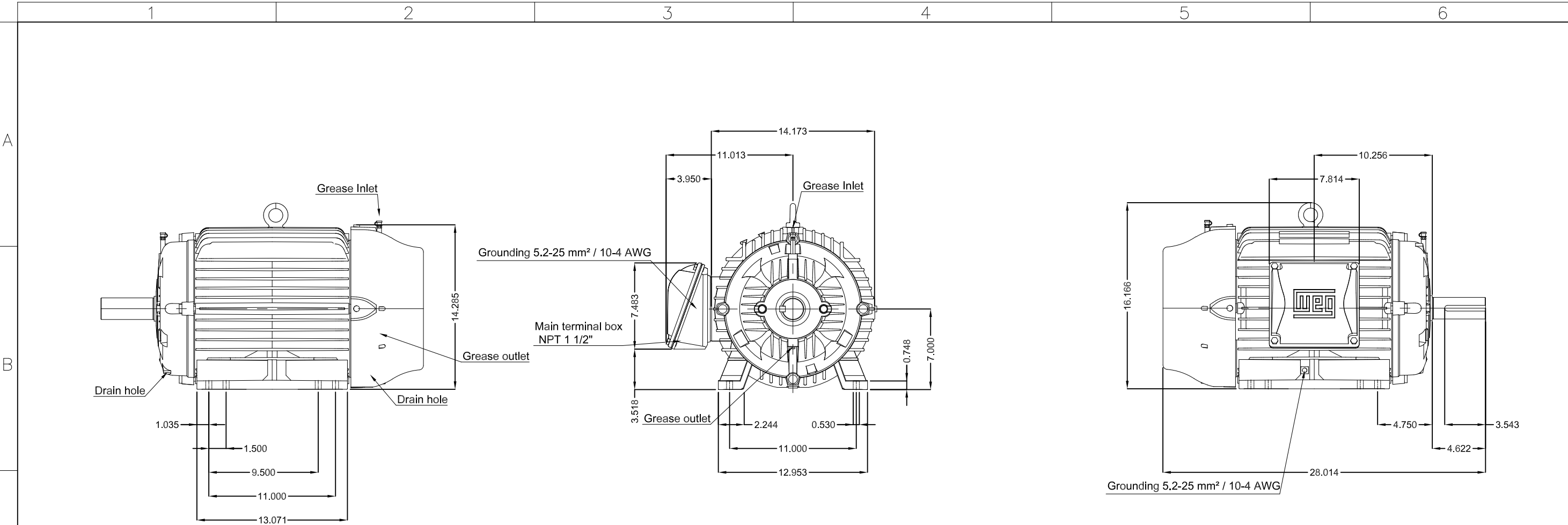


Performance : 415 V 50 Hz 4P IE2

Rated current : 33.2 A
LRC : 5.9
Rated torque : 12.4 kgfm
Locked rotor torque : 220 %
Breakdown torque : 260 %
Rated speed : 1465 rpm

Moment of inertia (J) : 0.2153 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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Without vertical jackscrews Grease outlet according to IEEE841 Color RAL 5009 Painting plan 202E Mounting B3R(D)				25 HP 04 Poles 60 Hz										A	
				ECM		LOC		SUMMARY OF MODIFICATIONS				HYBRISUSER			
				EXECUTED		HYBRISUSER		THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF.				EXECUTED		CHECKED	
				CHECKED				FRAME 284/6T IP56 TEFC						RELEASED	
				RELEASED										DATE	
				REL. DATE										VER	

Without vertical jackscrews
Grease outlet according to IEEE841
Color RAL 5009
Painting plan 202E
Mounting B3R(D)

25 HP 04 Poles 60 Hz

ECM	LOC	SUMMARY OF MODIFICATIONS				HYBRISUSER			
EXECUTED	HYBRISUSER	THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF.				EXECUTED		CHECKED	
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