

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase Product code : 12495577

Frame : 447T	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 : 1152 kg
Protection degree : IP56	Moment of inertia (J) : 5.63 kgm ²
Design : B	

Output [HP]	150	125	125	125
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	174	173	166	164
L. R. Amperes [A]	1305	1228	1311	1394
LRC [A]	7.5x(Code H)	7.1x(Code H)	7.9x(Code J)	8.5x(Code K)
No load current [A]	66.0	66.0	70.0	73.0
Rated speed [RPM]	1190	990	990	990
Slip [%]	0.83	1.00	1.00	1.00
Rated torque [kgfm]	91.5	91.6	91.6	91.6
Locked rotor torque [%]	260	240	270	290
Breakdown torque [%]	260	260	290	310
Service factor	1.15	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	75s (cold) 42s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level ²	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
Efficiency (%)	25%			
	50%	95.0	94.5	94.5
	75%	95.8	95.0	95.4
	100%	95.8	95.0	95.4
Power Factor	25%			
	50%	0.68	0.68	0.65
	75%	0.78	0.78	0.76
	100%	0.83	0.83	0.82

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	NU-319 C3	6316 C3	Max. traction : 1876 kgf
Sealing :	Viton	Viton Seal	Max. compression : 3094 kgf
	Oil Seal		
Lubrication interval :	7683 h	12823 h	
Lubricant amount :	45 g	34 g	
Lubricant type :	Mobil Polyrex EM		

Notes

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.

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	24/07/2026			

Page 1 / 6
Revision

Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 6	
Date	24/07/2026				

LOAD PERFORMANCE CURVE

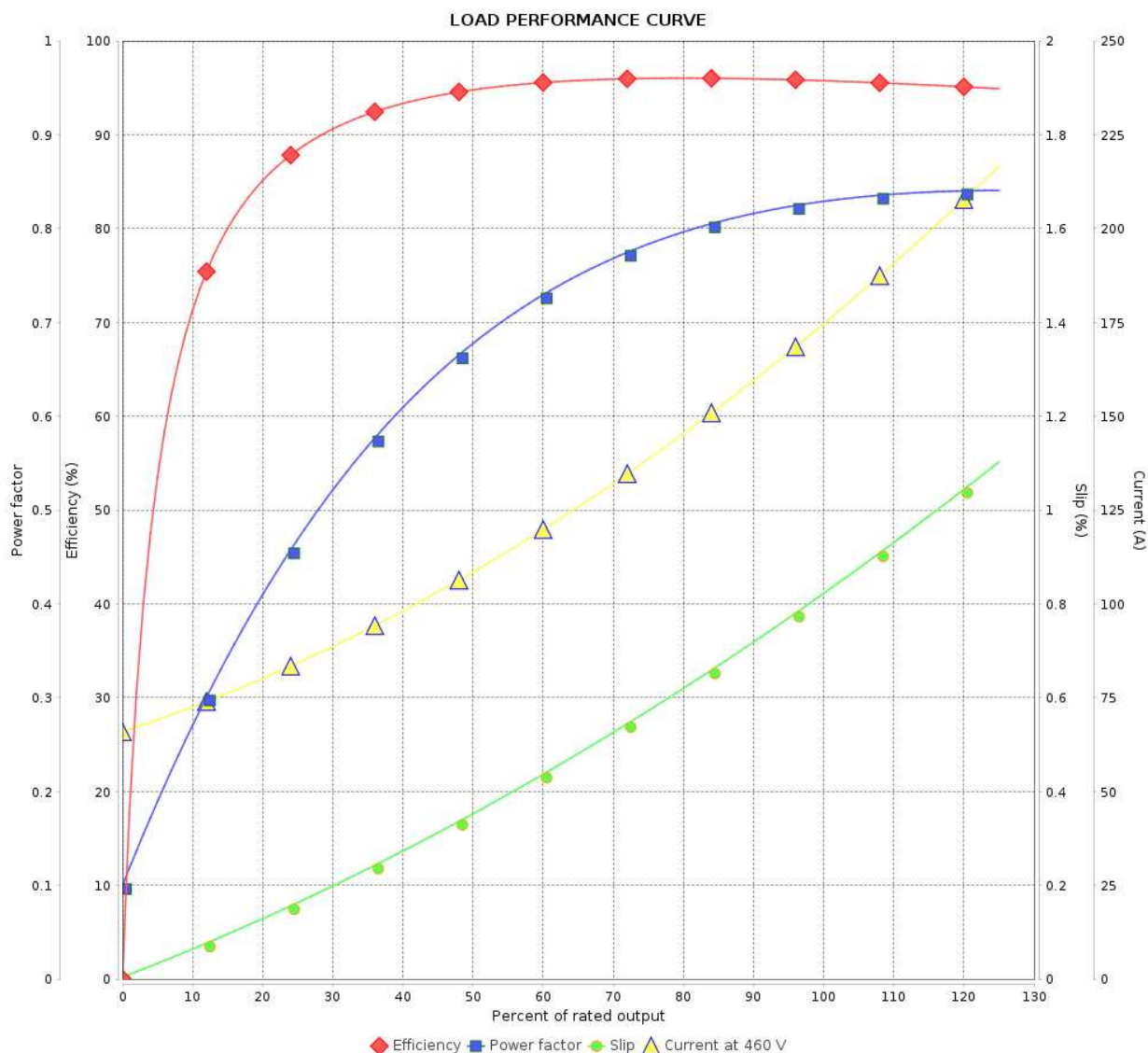
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA
Premium Efficiency Three-Phase

Product code : 12495577



Performance : 460 V 60 Hz 6P

Rated current : 174 A
LRC : 7.5
Rated torque : 91.5 kgfm
Locked rotor torque : 260 %
Breakdown torque : 260 %
Rated speed : 1190 rpm

Moment of inertia (J) : 5.63 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 3 / 6Revision		
Checked by				
Date	24/07/2026			

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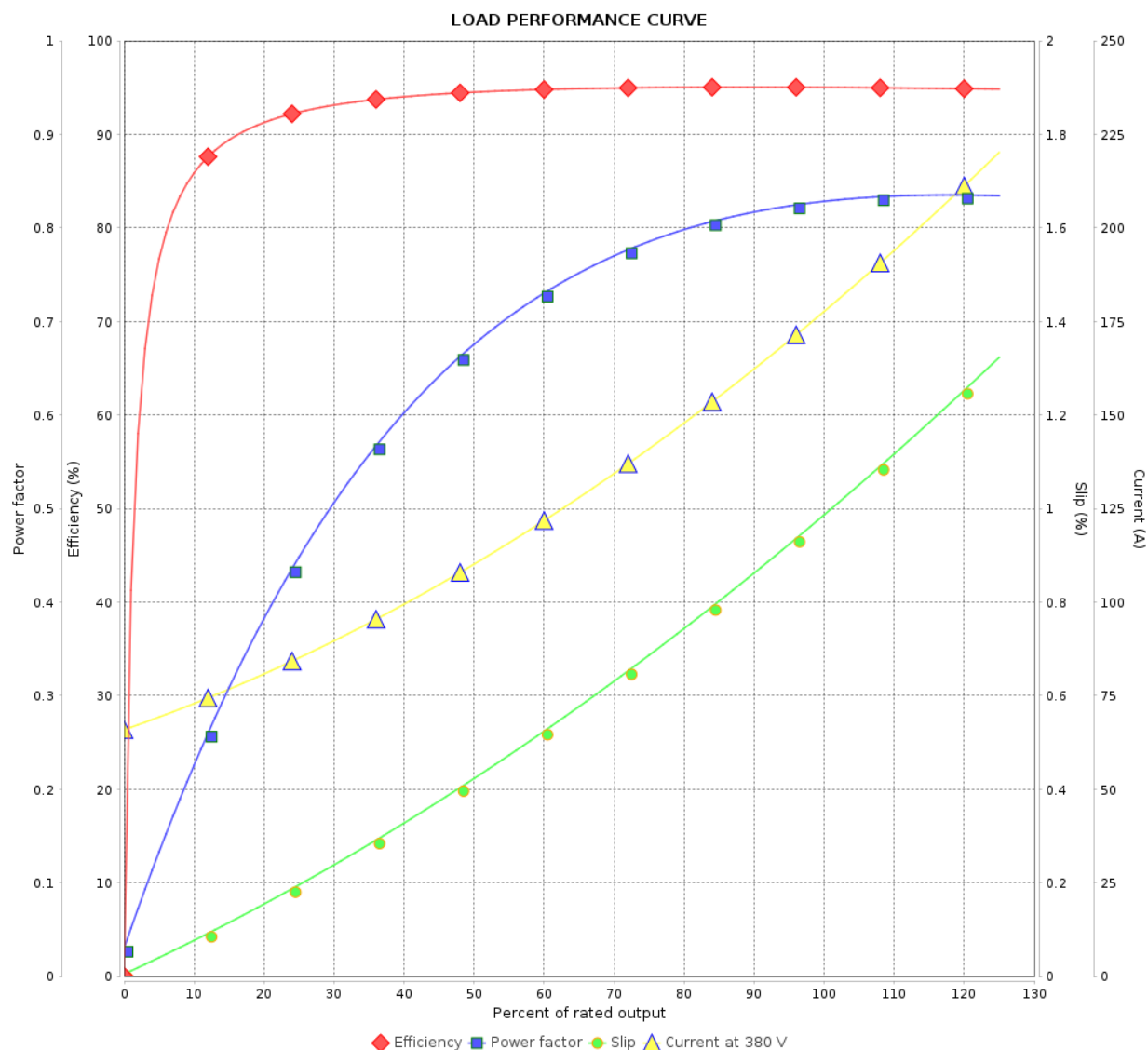
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA
Premium Efficiency Three-Phase

Product code : 12495577



Performance : 380 V 50 Hz 6P IE3

Rated current	: 173 A	Moment of inertia (J)	: 5.63 kgm ²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 91.6 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by				
Date	24/07/2026		Page 4 / 6	Revision

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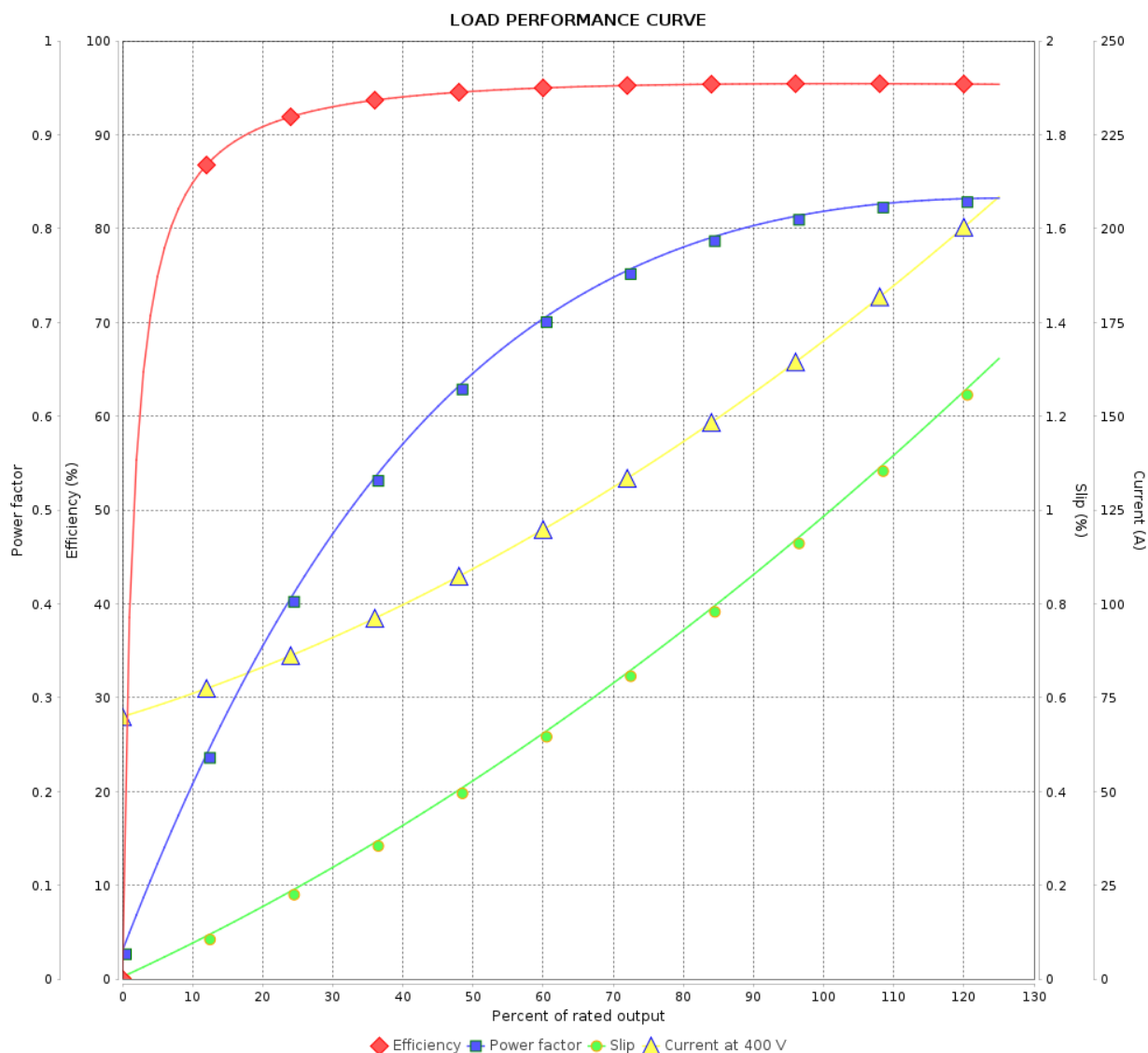
Three Phase Induction Motor - Squirrel Cage



Customer :

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Premium Efficiency Three-Phase

Product code : 12495577



Performance : 400 V 50 Hz 6P IE3

Rated current : 166 A
LRC : 7.9
Rated torque : 91.6 kgfm
Locked rotor torque : 270 %
Breakdown torque : 290 %
Rated speed : 990 rpm

Moment of inertia (J) : 5.63 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 5 / 6Revision		
Checked by				
Date	24/07/2026			

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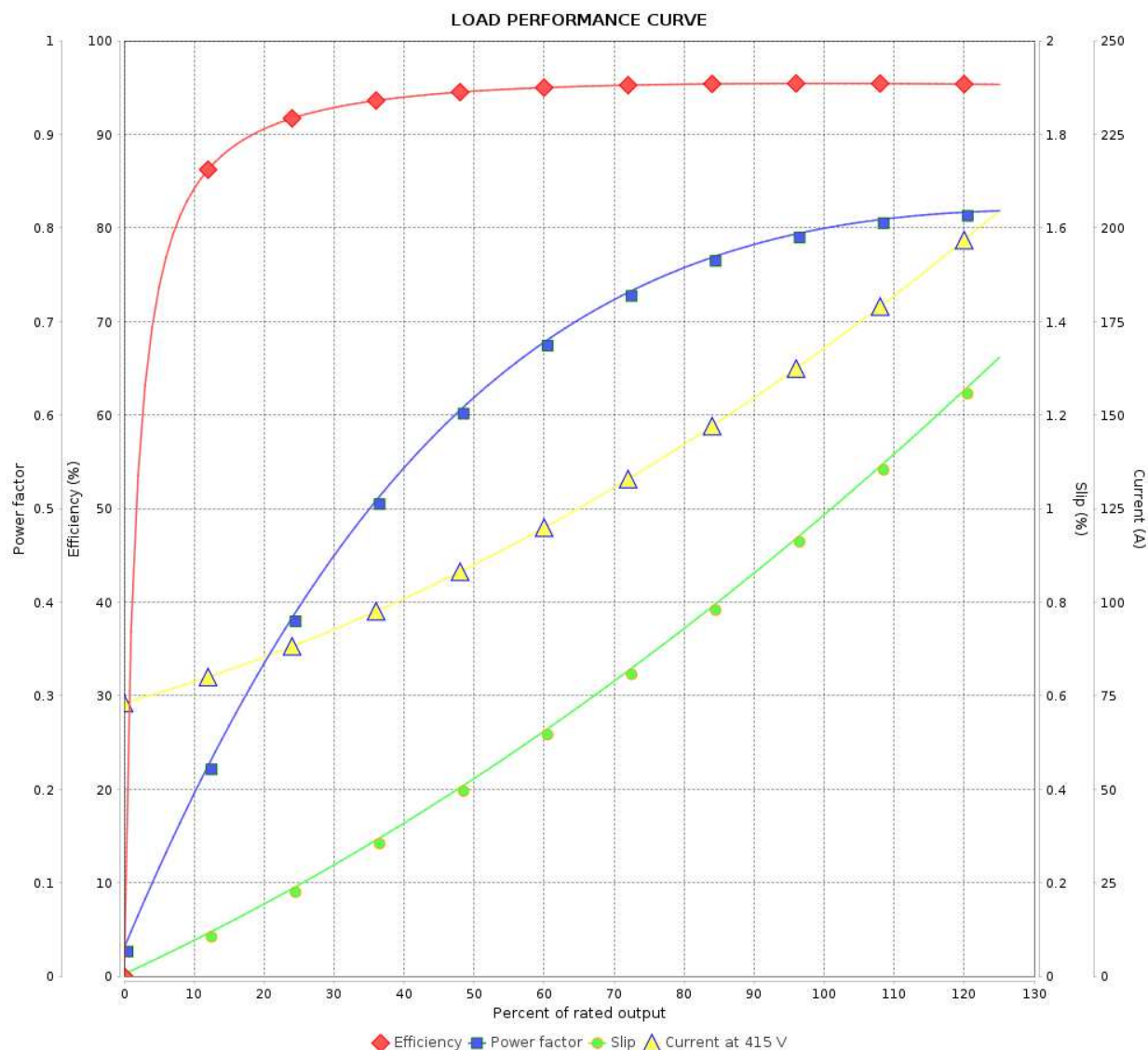
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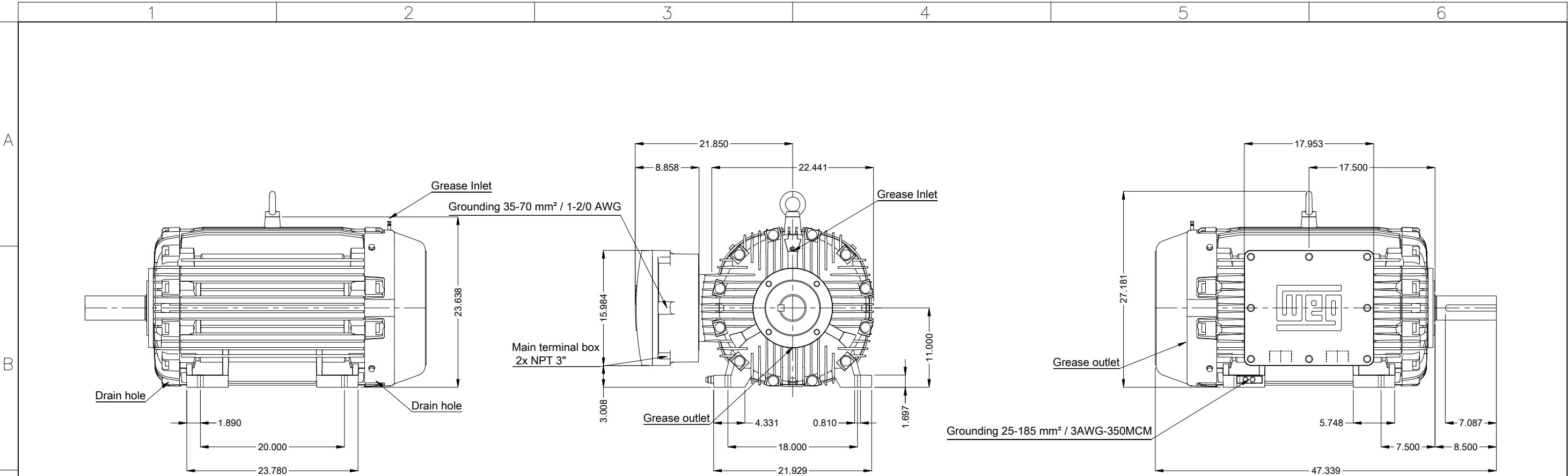
Product code : 12495577

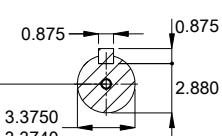
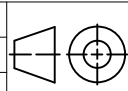


Performance : 415 V 50 Hz 6P IE3

Rated current	: 164 A	Moment of inertia (J)	: 5.63 kgm ²
LRC	: 8.5	Duty cycle	: Cont.(S1)
Rated torque	: 91.6 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 6 / 6 Revision		
Checked by				
Date	24/07/2026			



Shaft locking device NDE sealing - Viton lip seal ring DE roller bearing Color RAL 5009 Painting plan 222P Mounting NEMA F-1 Mounting B3R(D)		DE Shaft End  DUNC 3/4"-10 WEG WPR-7339		150 HP 06 Poles 60 Hz										A
				V.J. PAMENSKY CANADA INC.										
				Scale 1 : 14										
				PIRWUSER										00
				ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
				EXECUTED	PIRWUSER			THREE PH. MOTOR EXPLOSION PROOF NEMA PREM. EFF.				PREVIEW		
				CHECKED				FRAME 447T IP56 TEFC				WDD	00	
				RELEASED										
				REL. DATE								SHEET	1 / 1	