DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: Close Coupled Pump NEMA Premium Efficiency Three-Phase	Product code :	11168167

Frame	: E143/5JM	Locked rotor time	: 27s (cold) 15s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 4	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 5.80/2.90 A	Protection degree	: IP21
L. R. Amperes	: 47.6/23.8 A	Cooling method	: IC01 - ODP
LRC	: 8.2x(Code L)	Mounting	: F-1
No load current	: 3.20/1.60 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1730 rpm	Noise level[2]	: 52.0 dB(A)
Slip	: 3.89 %	Starting method	: Direct On Line
Rated torque	: 0.839 kgfm	Approx. weight[3]	: 21.2 kg
Locked rotor torque	: 350 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0067 kgm²		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	82.5	85.5	86.5
Power Factor	0.58	0.70	0.78

Foundation loads

Max. traction	: 68 kgf
Max. compression	: 89 kgf

		Drive end	Non drive end
Bearing type	:	6206 ZZ	6204 ZZ
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes
USABLE @208V 5.95A SF 1.00 SFA 5.95A

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

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Date	23/10/2024		1 / 2	

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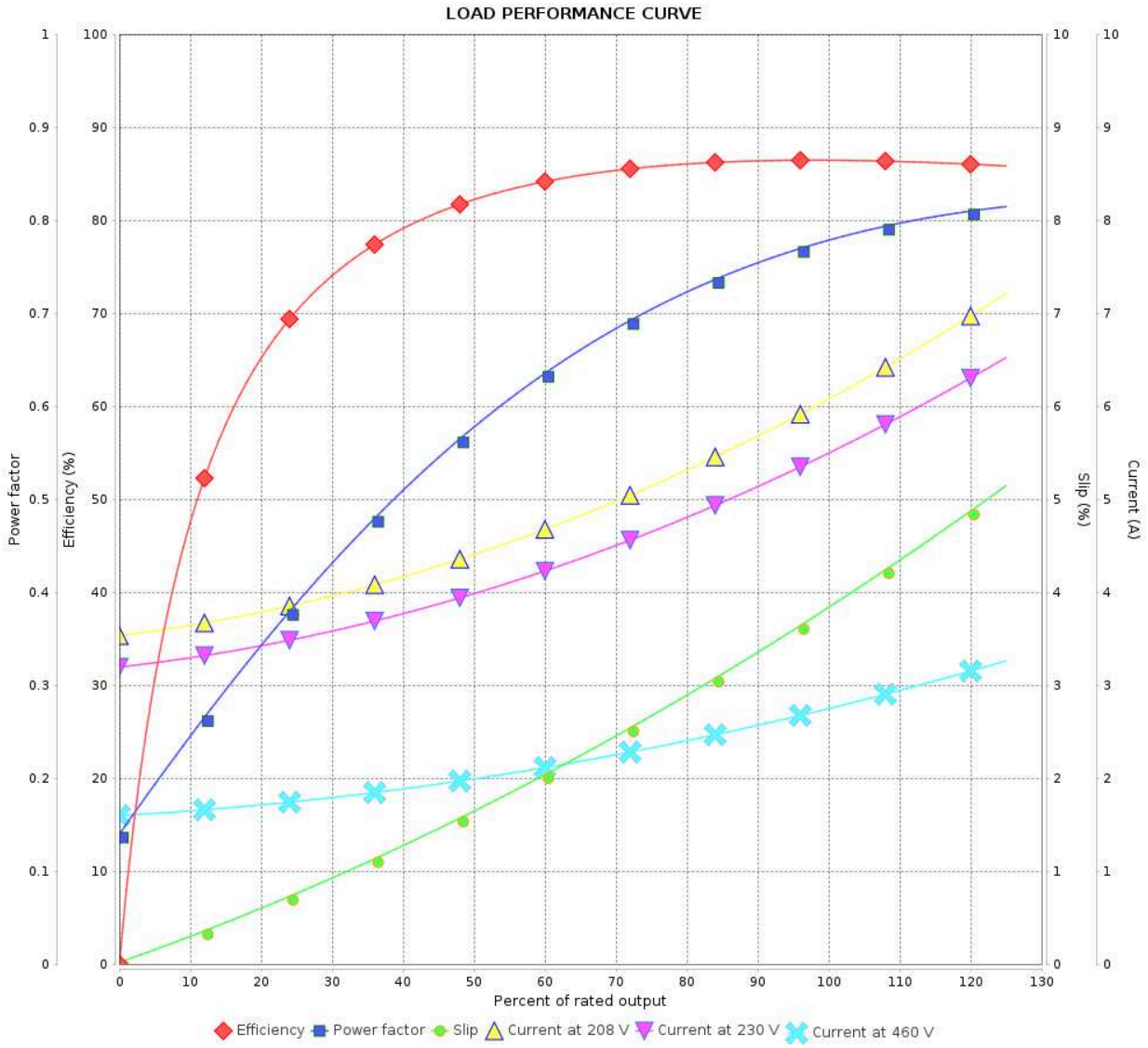
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 11168167

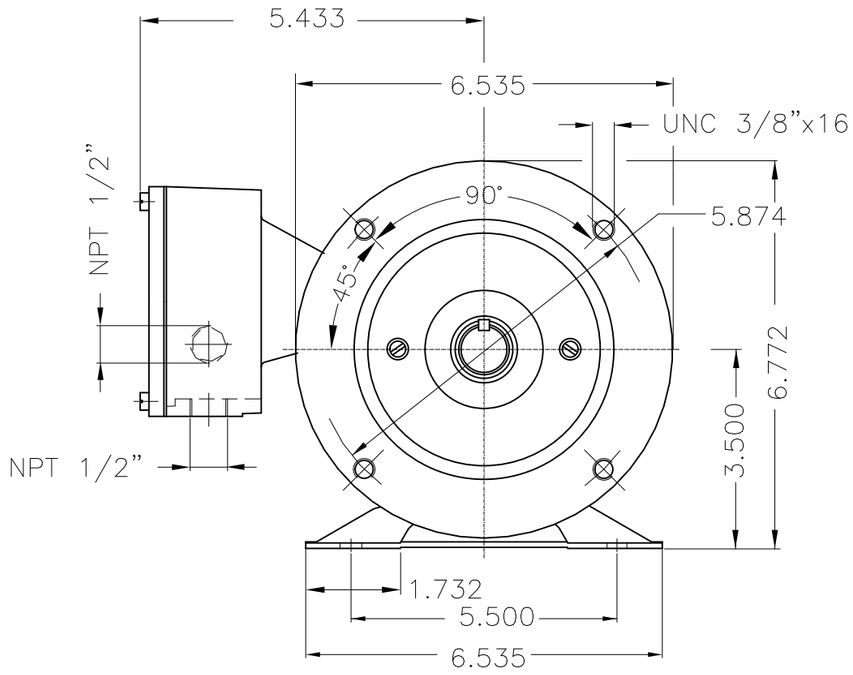


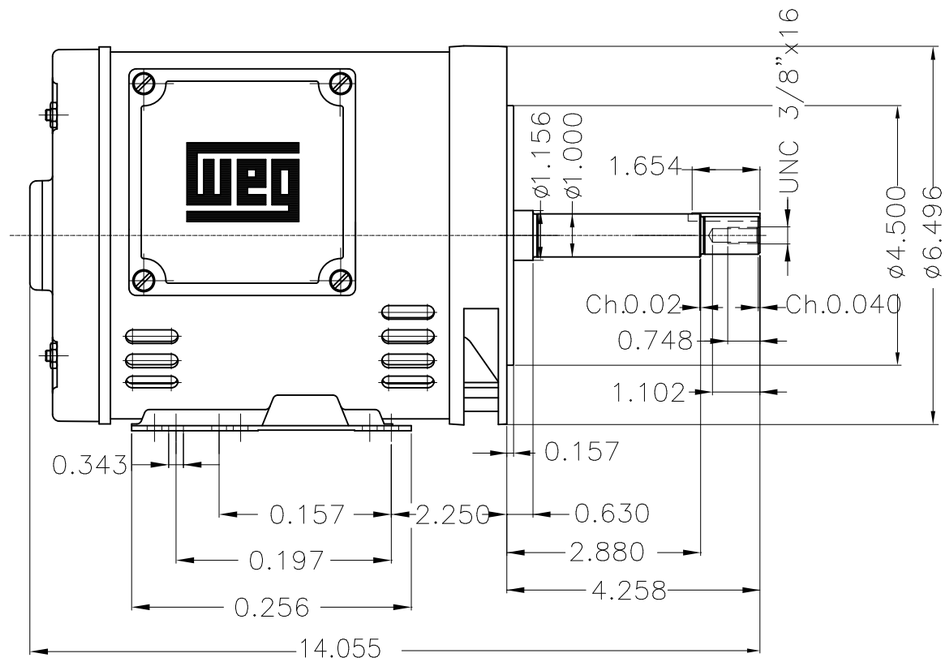
Performance	: 230/460 V 60 Hz 4P		
Rated current	: 5.80/2.90 A	Moment of inertia (J)	: 0.0067 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 0.839 kgfm	Insulation class	: F
Locked rotor torque	: 350 %	Service factor	:
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1730 rpm	Design	: B

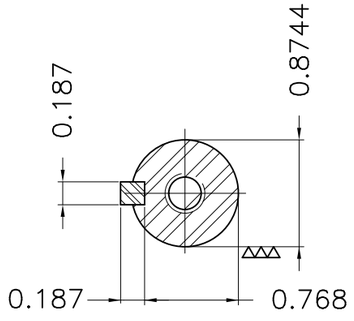
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Without switch off thermal protection

Mounting B34R(D)

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER	THREE PH. MOTOR JM/JP/JET PUMP NEMA PREM. EFF.	PREVIEW		
CHECKED		FRAME E143/5JM IP21 ODP	WDD	00	
RELEASED					
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET	1 / 1	

2 HP 04 Poles 60 Hz

A

Dimensions in inches

XME A3

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