

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Close Coupled Pump JM
NEMA Premium Efficiency Three-Phase
Product code : 11523675

Frame : 143/5JM	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 : 25.3 kg
Protection degree : IP55	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]	230/460	380	400	415
Rated current [A]	4.04/2.02	2.42	2.33	2.30
L. R. Amperes [A]	33.9/17.0	15.5	16.3	17.0
LRC [A]	8.4x(Code L)	6.4x(Code J)	7.0x(Code K)	7.4x(Code K)
No load current [A]	2.20/1.10	1.10	1.20	1.30
Rated speed [RPM]	1755	1440	1445	1450
Slip [%]	2.50	4.00	3.67	3.33
Rated torque [kgfm]	0.620	0.756	0.751	0.751
Locked rotor torque [%]	290	220	250	280
Breakdown torque [%]	350	250	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%	0.60	0.67	0.60
	75%	0.70	0.76	0.70
	100%	0.79	0.82	0.79

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

Losses (%)	P1 (0,9;1,0)	14.6	14.6	14.6	14.6
	P2 (0,5;1,0)	12.1	12.1	12.1	12.1
	P3 (0,25;1,0)	12.2	12.2	12.2	12.2
	P4 (0,9;0,5)	8.2	8.2	8.2	8.2
	P5 (0,5;0,5)	5.7	5.7	5.7	5.7
	P6 (0,5;0,25)	4.3	4.3	4.3	4.3
	P7 (0,25;0,25)	3.2	3.2	3.2	3.2

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6206 ZZ	6204 ZZ	Max. traction : 56 kgf
Sealing :	V'Ring	V'Ring	Max. compression : 81 kgf
Lubrication interval :	-	-	
Lubricant amount :	-	-	
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

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Customer :

Notes
USABLE @208V 4.36A SF 1.15 SFA 5.01A

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

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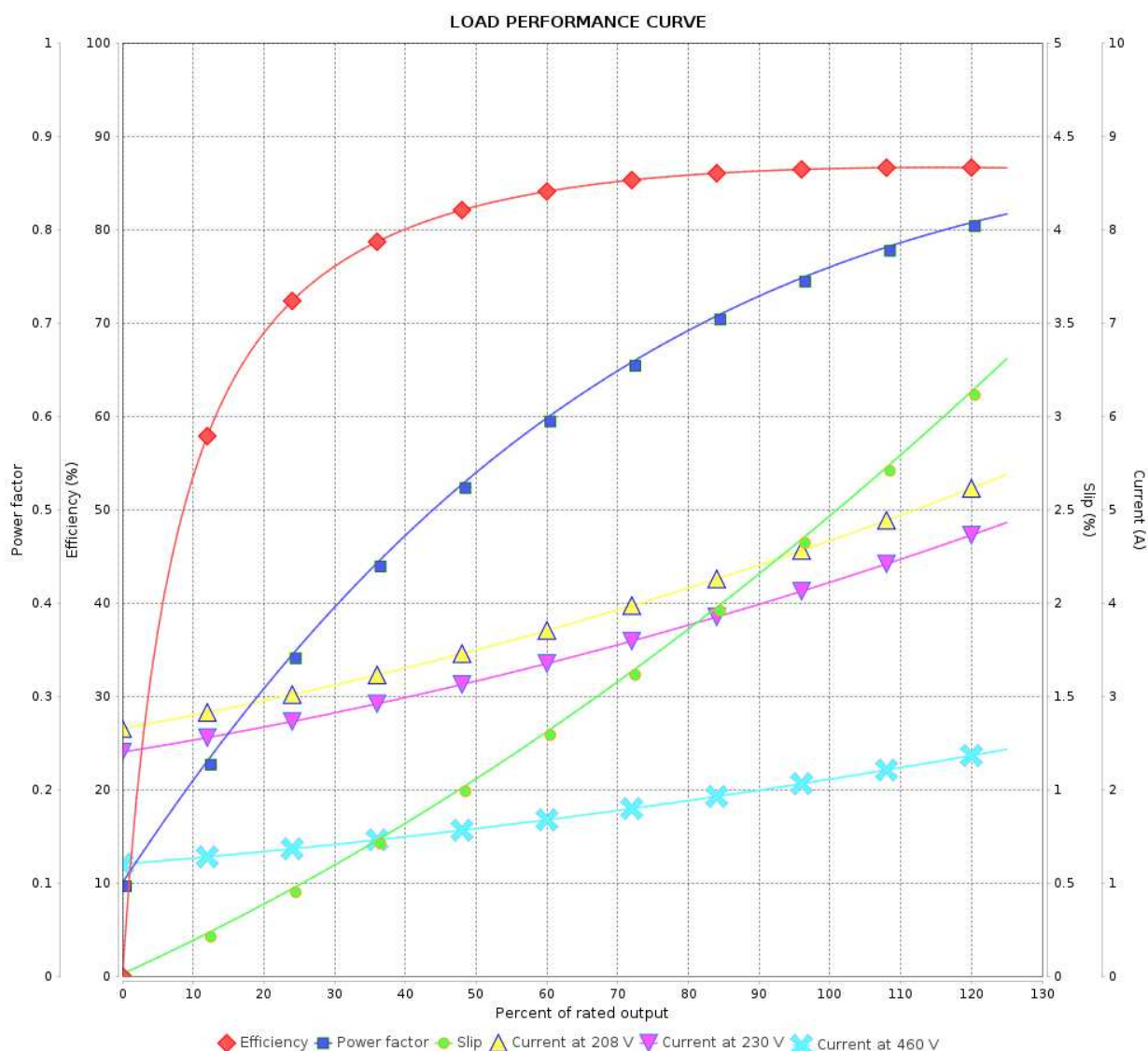
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Customer :

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

Product code : 11523675



Performance : 230/460 V 60 Hz 4P

Rated current : 4.04/2.02 A
LRC : 8.4
Rated torque : 0.620 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

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 6Revision		
Checked by				
Date	23/10/2024			

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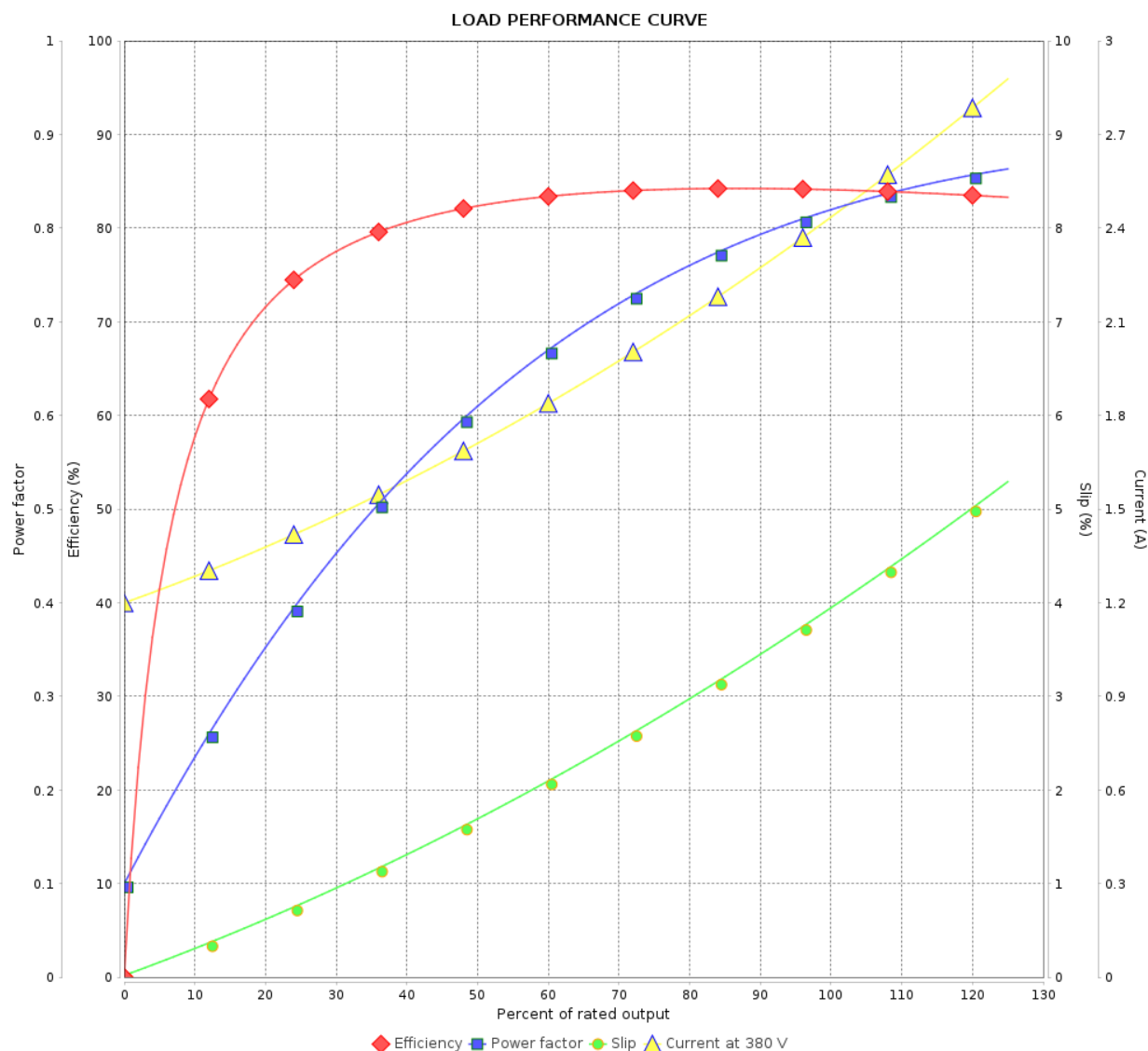
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Customer :

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Performance : 380 V 50 Hz 4P IE3

Rated current : 2.42 A
LRC : 6.4
Rated torque : 0.756 kgfm
Locked rotor torque : 220 %
Breakdown torque : 250 %
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

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

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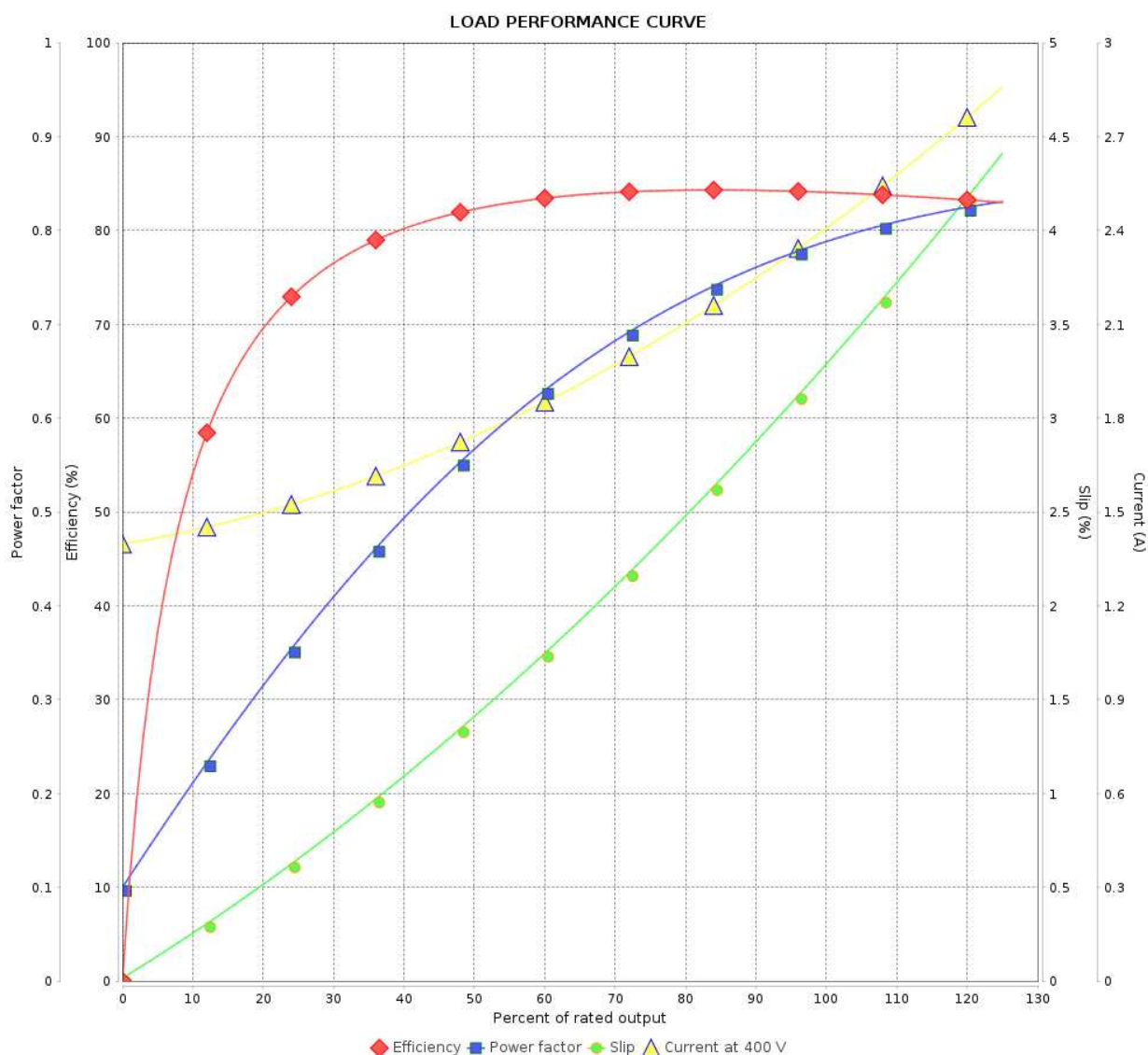
Three Phase Induction Motor - Squirrel Cage



Customer :

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

Product code : 11523675



Performance : 400 V 50 Hz 4P IE3

Rated current : 2.33 A
LRC : 7.0
Rated torque : 0.751 kgfm
Locked rotor torque : 250 %
Breakdown torque : 290 %
Rated speed : 1445 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

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

Page

5 / 6

Revision

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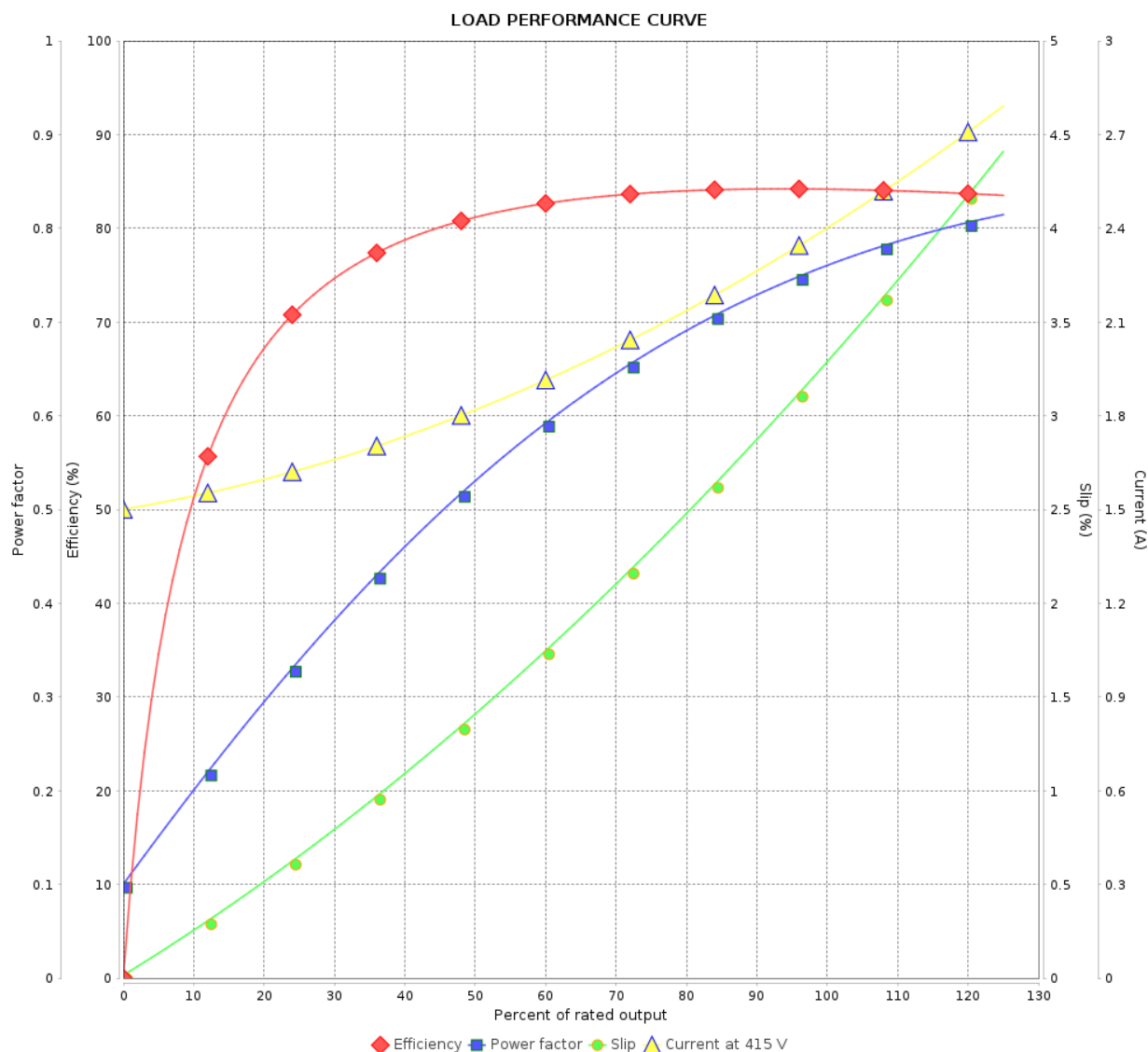
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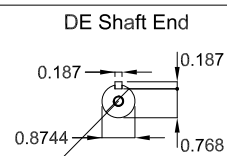
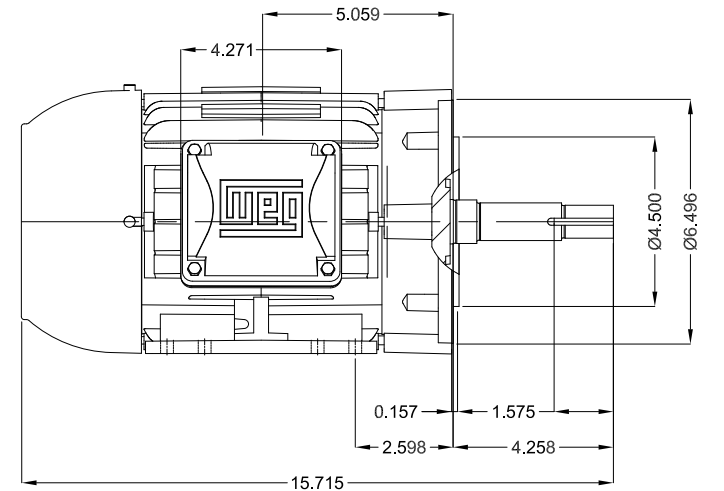


Performance : 415 V 50 Hz 4P IE3

Rated current : 2.30 A
LRC : 7.4
Rated torque : 0.751 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

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



EUNC 3/8"-16 WEG WPR-7309

