

# DATA SHEET

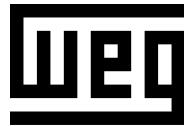
## Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line	: W21 Explosion Proof High Efficiency Three-Phase		Product code :	12823586				
Frame	: 184TC	Locked rotor time	: 32s (cold) 18s (hot)					
Output	: 5 HP (3.7 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	: 13.0/6.52 A	Protection degree	: IP55					
L. R. Amperes	: 91.3/45.6 A	Cooling method	: IC411 - TEFC					
LRC	: 7.0x(Code J)	Mounting	: W-6					
No load current	: 5.60/2.80 A	Rotation <sup>1</sup>	: Both (CW and CCW)					
Rated speed	: 1744 rpm	Noise level <sup>2</sup>	: 56.0 dB(A)					
Slip	: 3.11 %	Starting method	: Direct On Line					
Rated torque	: 15.1 ft.lb	Approx. weight <sup>3</sup>	: 125 lb					
Locked rotor torque	: 210 %							
Breakdown torque	: 270 %							
Insulation class	: F							
Service factor	: 1.15							
Moment of inertia (J)	: 0.3813 sq.ft.lb							
Design	: B							
Output	25%	50%	75%	100%	Foundation loads			
Efficiency (%)	88.9	90.9	88.4	88.0				
	90.1	89.4	88.2	88.0				
Power Factor	0.40	0.47	0.65	0.73	Max. traction : 218 lb			
	0.44	0.40	0.69	0.66	Max. compression : 343 lb			
Losses at normative operating points (speed;torque), in percentage of rated output power								
Losses (%)	P1 (0,9;1,0)	13.2	19.8	17.2	16.0			
	P2 (0,5;1,0)	11.6	17.4	15.1	14.0			
	P3 (0,25;1,0)	11.2	16.8	14.6	13.6			
	P4 (0,9;0,5)	6.0	8.9	7.8	7.2			
	P5 (0,5;0,5)	4.3	6.4	5.6	5.2			
	P6 (0,5;0,25)	2.7	4.1	3.6	3.3			
	P7 (0,25;0,25)	2.0	3.0	2.6	2.4			
			Drive end					
Bearing type	:	6307 2RS	Non drive end					
Sealing	:	Oil Seal	6206 2RS					
Lubrication interval	:	-	Lip Seal					
Lubricant amount	:	-	-					
Lubricant type	:	Mobil Polyrex EM						
Notes:								
This revision replaces and cancel the previous one, which must be eliminated.			These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.					
(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.								
Rev.	Changes Summary			Performed	Checked			
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Customer :

### Thermal protection

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

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