

DATA SHEET

Three Phase Induction Motor - Squirrel Cage

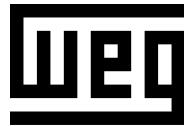


Customer	:									
Product line	: W21 Explosion Proof High Efficiency Three-Phase	Product code :	12823523							
Frame	: 145TC	Locked rotor time	: 18s (cold) 10s (hot)							
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K							
Poles	: 4	Duty cycle	: Cont.(S1)							
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C							
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.							
Rated current	: 5.74/2.87 A	Protection degree	: IP55							
L. R. Amperes	: 45.9/23.0 A	Cooling method	: IC411 - TEFC							
LRC	: 8.0x(Code L)	Mounting	: W-6							
No load current	: 3.50/1.75 A	Rotation ¹	: Both (CW and CCW)							
Rated speed	: 1745 rpm	Noise level ²	: 51.0 dB(A)							
Slip	: 3.06 %	Starting method	: Direct On Line							
Rated torque	: 6.02 ft.lb	Approx. weight ³	: 72.4 lb							
Locked rotor torque	: 240 %									
Breakdown torque	: 300 %									
Insulation class	: F									
Service factor	: 1.15									
Moment of inertia (J)	: 0.1329 sq.ft.lb									
Design	: B									
Output	25%	50%	75%	100%	Foundation loads					
Efficiency (%)	81.1	77.7	81.5	77.0	84.0	80.0	84.0	78.5	Max. traction	: 128 lb
	78.1	79.6	78.5	80.0	80.0	81.5	80.0	81.5	Max. compression	: 201 lb
Power Factor	0.32	0.39	0.57	0.66	0.71	0.77	0.78	0.83		
	0.35	0.32	0.62	0.58	0.74	0.71	0.81	0.79		
Bearing type	:	<u>Drive end</u>		<u>Non drive end</u>						
Sealing	:	6205 2RS		6204 2RS						
Lubrication interval	:	Oil Seal		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	Date
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Checked by				
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Customer :

Thermal protection

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

Rev.

Changes Summary

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