

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Rolled Steel High Efficiency Three-Phase  
Product code : 12686501  
Catalog # : 02036OP3EFP254T-S

Frame : 254/6T	Cooling method : IC01 - ODP
Insulation class : F	Mounting : F-1
Duty cycle : Cont.(S1)	Rotation <sup>1</sup> : Both (CW and CCW)
Ambient temperature : -20°C to +40°C	Starting method : Direct On Line
Altitude : 1000 m.a.s.l.	Approx. weight <sup>2</sup> : 166 lb
Design : B	Moment of inertia (J) : 0.6974 sq.ft.lb

Output [HP]	20	20	20
Poles	2	2	2
Frequency [Hz]	60	50	50
Rated voltage [V]	208-230/460	190/380	220/415
Rated current [A]	52.4-47.4/23.7	59.0/29.5	51.9/27.5
L. R. Amperes [A]	314-284/142	260/130	270/143
LRC [A]	6.0x(Code G)	4.4x(Code D)	5.2x(Code F)
No load current [A]	15.7-18.2/9.12	17.7/8.86	22.1/11.7
Rated speed [RPM]	3520	2885	2910
Slip [%]	2.22	3.83	3.00
Rated torque [ft.lb]	29.4	35.9	35.6
Locked rotor torque [%]	180	110	130
Breakdown torque [%]	240	180	220
Service factor	1.15	1.00	1.00
Temperature rise	80 K	105 K	80 K
Locked rotor time	16s (cold) 9s (hot)	12s (cold) 7s (hot)	10s (cold) 6s (hot)
Noise level <sup>2</sup>	70.0 dB(A)	68.0 dB(A)	68.0 dB(A)
Efficiency (%)	25%	87.7	89.6
	50%	88.5	88.6
	75%	89.5	88.7
	100%	90.2	87.3
Power Factor	25%	0.48	0.44
	50%	0.75	0.72
	75%	0.84	0.82
	100%	0.88	0.87

### 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).
- (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		Page Revision 1 /		
Checked by				
Date	19/01/2018			