

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :				
Product line	: Rolled Steel High Efficiency Three-Phase	Product code :	12795384	
		Catalog # :	02036OP3EFP254TC-S	
Frame	: 254/6TC	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>	: 181 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				
Checked by			Page	Revision
Date	18/01/2018		1 /	