

**DATA SHEET**

**Three Phase Induction Motor-Squirrel Cage**



Cusrtomer

Product line: Product code: 02018ET3ESS256TC

Frame	:	256TC	Cooling method	:	TEFC
Insulation class	:	F	Mounting	:	F-1
Duty cycle	:	Cont.(S1)	Ratation	:	Both(CW and CCW )
Ambient temperature	:	-15°C to +40°C	Starting Method	:	Direct On Line
Altitude	:	1000m.a.s.l.	Approx. weight(lb)	:	
Design	:	B	Momet of inertia(J)	:	

Output [HP]	20		
Poles	4		
Frequency [Hz]	60		
Rated voltage [V]	230/460		
Rated current [A]	47.94/23.97		
L.R. Amperes [A]	315/157.5		
LRC [A]	6.6		
No load current [A]	9.2		
Rated speed [RPM]	1765		
Slip [%]	1.94		
Rated torque [ft.lb]	59.6		
Locked rotor torque [%]	180		
Breakdown torque [%]	220		
Service factor	1		
Temperature rise	≤80K		
Locked rotor time	≤8s		
Noise level			
Efficiency	25%	85.1	
	50%	91.3	
	75%	92.7	
	100%	93	
Power Factor	25%	0.5	
	50%	0.73	
	75%	0.81	
	100%	0.84	

	<u>Drive end</u>	<u>Non drive end</u>
Bearing type	6209	6209
Sealing	Without	Without
	Bearing Seal	Bearing Seal
Lubrication interval	0h	0h
Lubricant amount	0g	0g
Lubricant type	None	

**Notes**

<p>This revision replaces and cancel the previous one, which must be eliminated.                  (1) Looking the motor from the shaft end.                  (2) Measure at 1m and with tolerance of +3dB(A)                  (3) Approximate weight subject to changes after manufacturing process.                  (4)At 100% of full load.</p>	<p>These are average values based on tests with power supply, subject to the tolerance stipulated in NEMA MG-1</p>
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Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	2024.02.17			

Subject to change without notice.

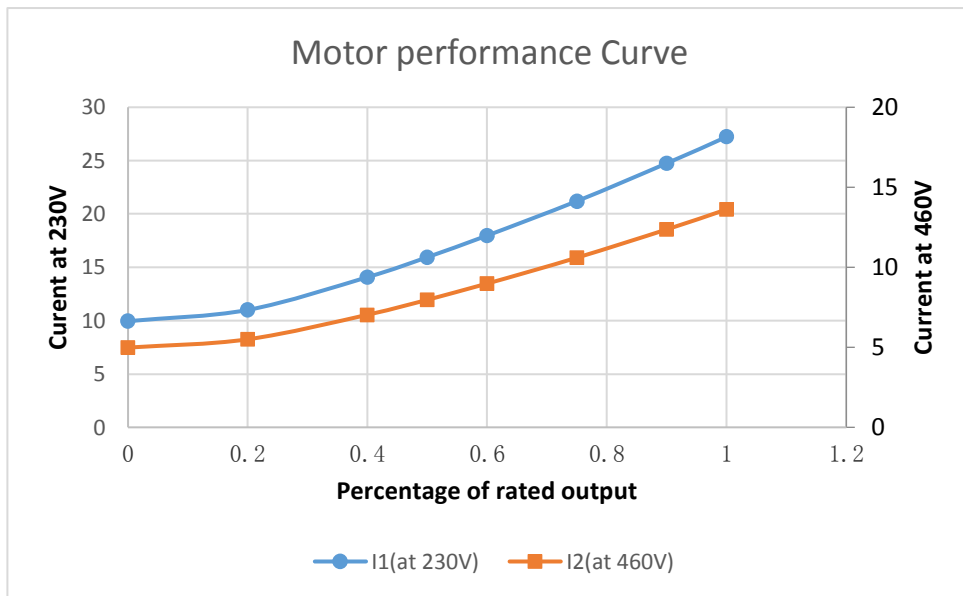
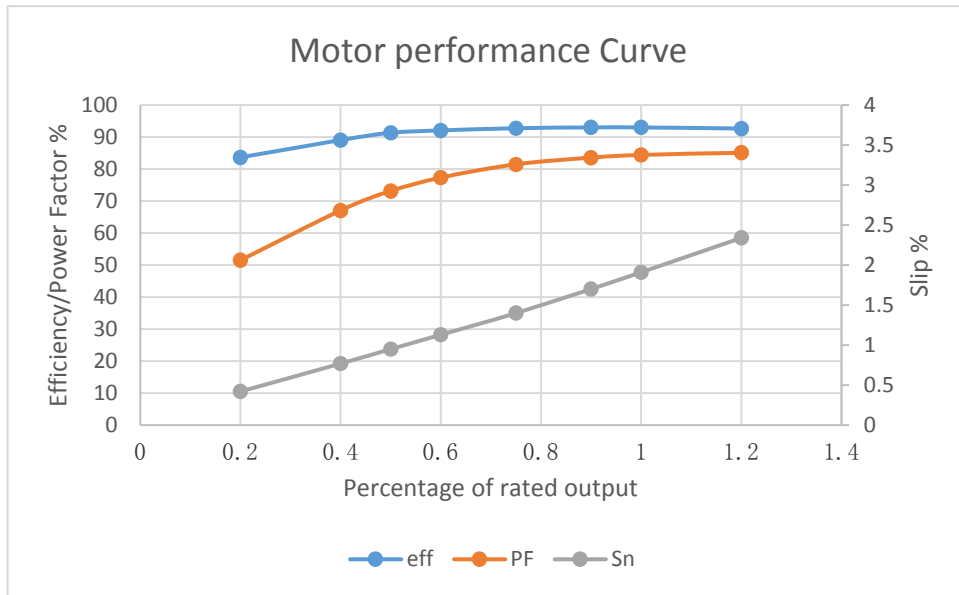
**LOAD PERFORMANCE CURVE**  
**Three Phase Induction Motor-Squirrel Cage**



Customer

Product line:

Product code:



<b>Permane</b>	:	230/460V 60Hz		
Rated Current(A)	:	47.94/23.97	Moment of inertia(J)	:
LRC	:	6.6	Duty cycle	:
Rated Torque(lb-ft)	:	59.6	Insulation class	:
Locked rotor torque%	:	180	Service factor	:
Breakdown torque%	:	220	Temperature rise	:
Rated speed (r/min)	:	1765	Design	:
				S1
				F
				1
				80K
				B

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### Nameplate Specification

Model	02018ET3ESS256TC	Frame	:256TC
Enclosure	:TEFC	Output HP	:20
Protection	:IP55	Phase	:3
Duty	:Continuous	Volts	:230/460V
Insulation Class	:F	NEMA DESIGN	:B
Rated Current	:47.94/23.97A	Service Factor	:1.0
Max ambient	:40°C	Speed	:1765
Code	:G	DE Bearing	:6309
Connection	:2 $\Delta$ / $\Delta$	ODE Bearing	:6309
Power Factor	:0.84	Frequency	:60Hz
Nominal Efficiency	:93.0%	CSA	:Y
Min. Efficiency	:91.7%		

### Technical Specification

Electrical Type	:Squirrel cage induction run	Starting Method	:Direct on line
Poles	:4	Rotation	:CW or CCW
Resistance	:0.47 $\Omega$	Mounting	:Rigid Base
Motor Orientation	:Horizontal	Drive end Bearing	:Ball 6309
ODE Bearing	:Ball 6309	Frame Material	:Steel
C-face Diameter	:10 inch	Overall Length	:25.4 inch
Shaft Extension	:4 inch	Shaft Diameter	:1.625 inch
Shaft Extension Mate	:45# steel	Bearing Grease type	:2# Lithium Grease

