DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer		:						
Product line		: NEMA Premium Efficiency T Phase			Three- Product code Catalog # :	e :	12447059 01518ET3P254T-W22	
Frame Output Poles Frequency Rated voltage Rated current L. R. Amperes LRC No load current Rated speed Slip Rated torque Locked rotor torque Breakdown torque Insulation class Service factor Moment of inertia (J) Design		: 15 H : 4 : 60 H : 200 : 41.4 : 265 : 6.4) : 16.6 : 177 : 1.67 : 220 : 260 : F	: 60 Hz : 200 V : 41.4 A : 265 A : 6.4x(Code G) : 16.6 A : 1770 rpm : 1.67 % : 44.5 ft.lb : 220 % : 260 % : F : 1.25 : 2.62 sq.ft.lb		Locked rotor time Temperature rise Duty cycle Ambient temperatur Altitude Protection degree Cooling method Mounting Rotation¹ Noise level² Starting method Approx. weight³	e	: 55s (cold) 31s (hot) : 80 K : Cont.(S1) : -20°C to +40°C : 1000 m.a.s.l. : IP55 : IC411 - TEFC : F-1 : Both (CW and CCW) : 64.0 dB(A) : Direct On Line : 312 lb	
Output	25%	50%	75%	100%	Foundation loads			
Efficiency (%)	90.2	91.0	91.7	92.4	Max. traction		: 399 lb	
Power Factor	0.43	0.68	0.78	0.83	Max. compression		: 711 lb	
Bearing type Sealing Lubrication interval Lubricant amount Lubricant type		: : : :	Drive end : 6309 C3 : V'Ring : 20000 h : 13 g		Non drive end 6209 C3 V'Ring 20000 h 9 g Mobil Polyrex EM			
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).
- (3) Approximate weight subject to changes after manufacturing process.
- (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	13/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



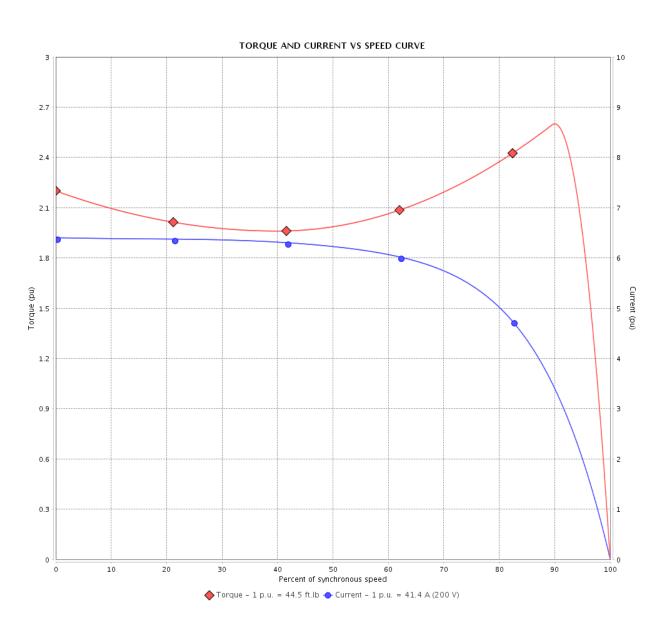
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 12447059

Catalog #: 01518ET3P254T-W22



Performance : 200 V 60 Hz 4P Rated current : 41.4 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 44.5 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B

Locked rotor time : 55s (cold) 31s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

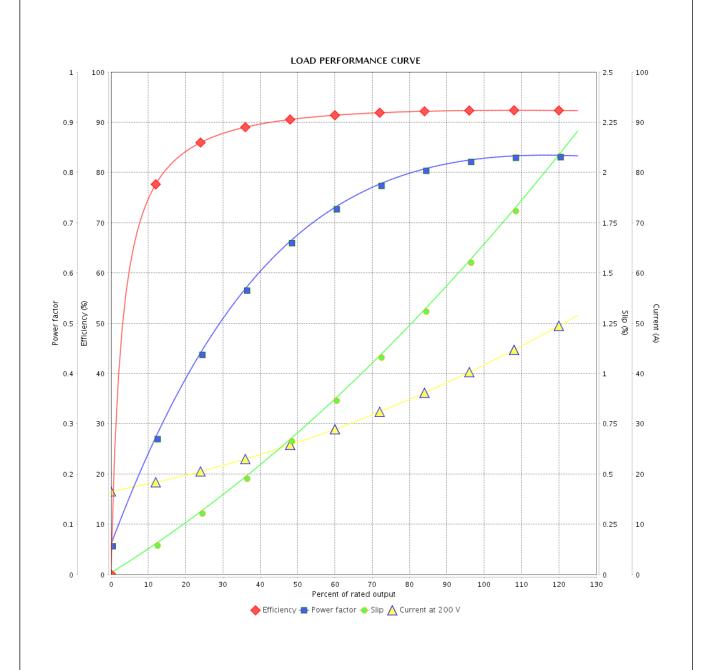


Customer

Product line : NEMA Premium Efficiency Three- Product code : 12447059

Phase

Catalog #: 01518ET3P254T-W22



Performance	:	: 200 V 60 Hz 4P						
Rated current		: 41.4 A Moment of inertia (J)		f inertia (J)	: 2.62 sq.ft.lb			
LRC		6.4	Duty cycle		: Cont.(S1)			
Rated torque		44.5 ft.lb	Insulation class		: F			
Locked rotor torque		220 %	Service factor		: 1.25			
Breakdown torque	:	260 %	Temperature rise		: 80 K			
Rated speed	:	1770 rpm	Design		: B			
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	13/04/2022				3/6			

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



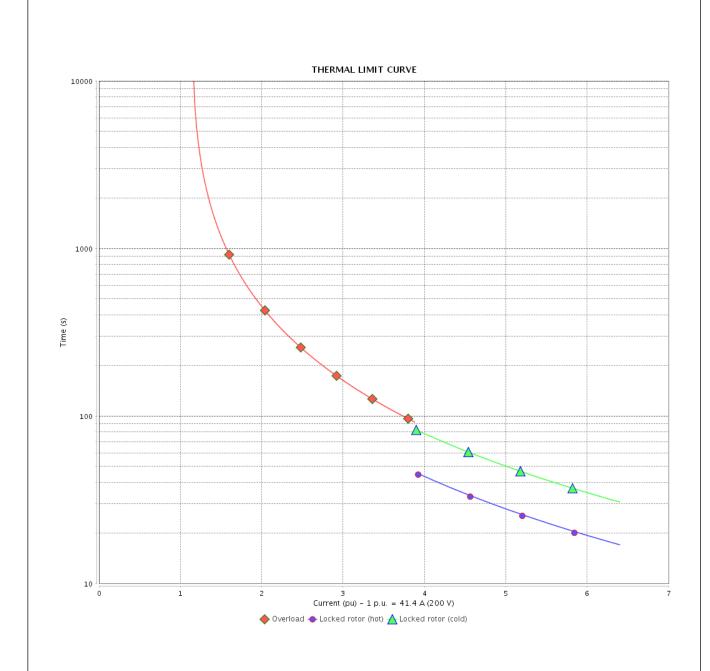
Customer	:					
Product line		NEMA Premium Efficienc	y Three-	Product code :	12447059	
	P	hase		Catalog # :	01518ET3P25	54T-W22
Performance	: 20	00 V 60 Hz 4P				
Rated current	: 4	1.4 A	Moment o	f inertia (J)	: 2.62 sq.ft.lb	
LRC Rated torque	: 6. · 44	4 4.5 ft.lb	Duty cycle Insulation	e class	: Cont.(S1) : F	
Locked rotor torque	: 22	20 %	Service fa	ctor	: 1.25	
Breakdown torque Rated speed		60 % 770 rpm	Temperatu Design	ure rise	: 80 K : B	
	. 17	ΤΟΙΡΙΙΙ	Design			
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

Page 6 / 6

Customer :

Checked by

Date

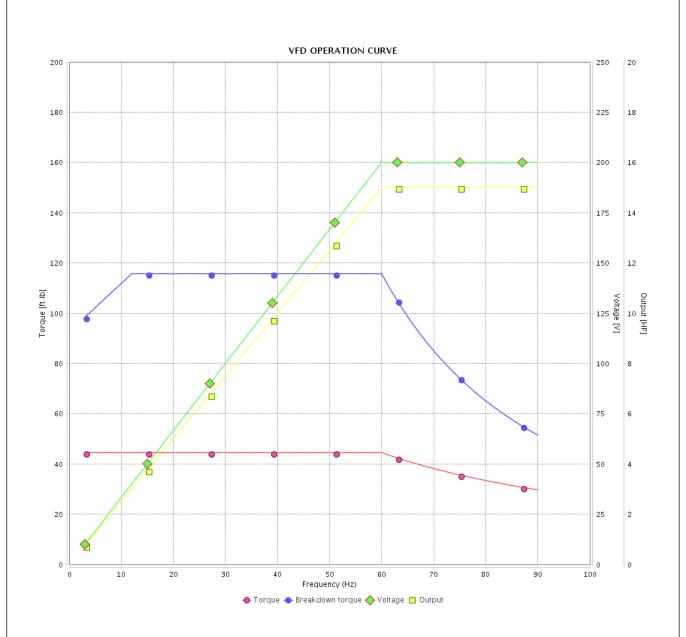
13/04/2022

Product line : NEMA Premium Efficiency Three- Product of

Phase

Product code: 12447059

Catalog #: 01518ET3P254T-W22



Performance : 200 V 60 Hz 4P Rated current : 41.4 A Moment of inertia (J) : 2.62 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 : 44.5 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

