DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : JP Pump NEMA Premium Product code: 13482980 Efficiency Three-Phase Catalog #: 01036OT3V213JPV-S Frame : 213/5JP Locked rotor time : 19s (cold) 11s (hot) Output : 10 HP (7.5 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Frequency : 60 Hz Rated voltage : 200/400 V Altitude : 1000 m.a.s.l. Cooling method : IC01 - ODP Rated current : 27.6/13.8 A L. R. Amperes : 188/93.8 A Mounting : W-6 : Both (CW and CCW) LRC : 6.8x(Code H) Rotation¹ No load current : 10.7/5.36 A Noise level² : 66.0 dB(A) Rated speed : 3535 rpm Starting method : Direct On Line : 125 lb Slip : 1.81 % Approx. weight³ Rated torque : 14.9 ft.lb : 200 % Locked rotor torque Breakdown torque : 280 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 0.4651 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 88.5 89.5 89.5 : 172 lb Efficiency (%) 88.3 Max. traction : 297 lb Power Factor 0.47 0.74 0.84 0.88 Max. compression Drive end Non drive end Bearing type 6209 ZZ 6206 ZZ Sealing Without Bearing Seal Without Bearing Seal Lubrication interval Lubricant amount Lubricant type 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	12/04/2022			1/6	

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



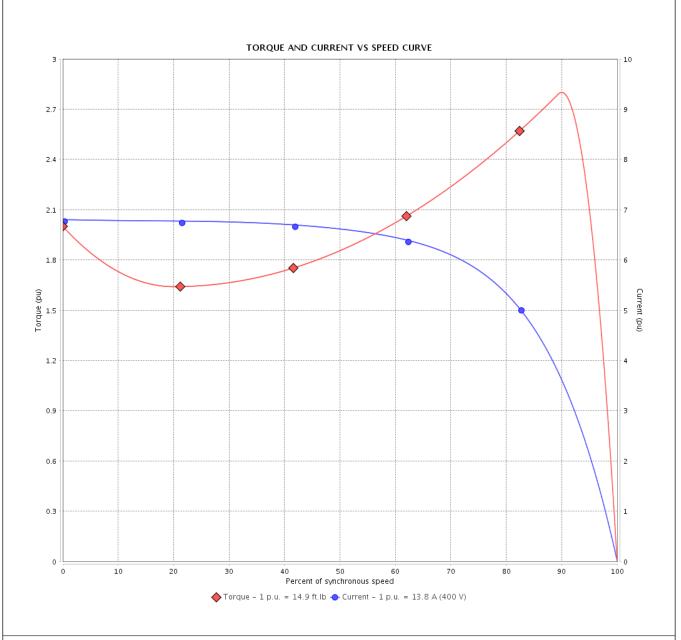
Customer :

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482980

Catalog #: 01036OT3V213JPV-S



Performance : 200/400 V 60 Hz 2P Rated current : 27.6/13.8 A Moment of inertia (J) : 0.4651 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : F : 14.9 ft.lb Insulation class Rated torque Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B

Locked rotor time : 19s (cold) 11s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			2/6	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



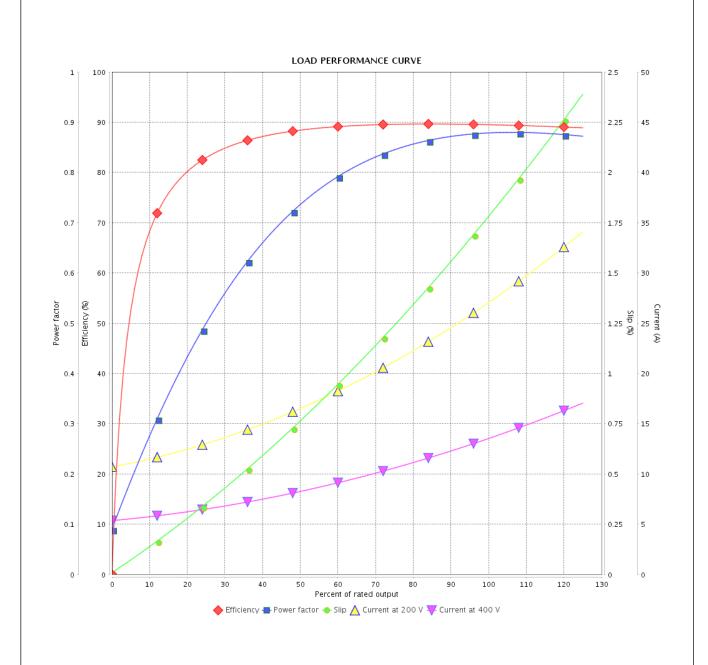
Customer

Product line : JP Pump NEMA Premium Product

Efficiency Three-Phase

Product code: 13482980

Catalog #: 01036OT3V213JPV-S



Performance		: 200/400 V 60 Hz 2P					
Rated current		7.6/13.8 A Moment of inertia (J)		: 0.4651 sq.ft.lb			
LRC		3.8	Duty cycle		: Cont.(S1)		
Rated torque		14.9 ft.lb	Insulation class		: F		
Locked rotor torqu	e :2	200 %	Service fa	Service factor		: 1.15	
Breakdown torque	: 2	· ·		Temperature rise Design			
Rated speed	: 3						
Rev.		Changes Summary		Performed	Checked	Date	
Performed by							
Checked by		7			Page	Revision	
Date	12/04/2022				3/6		

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



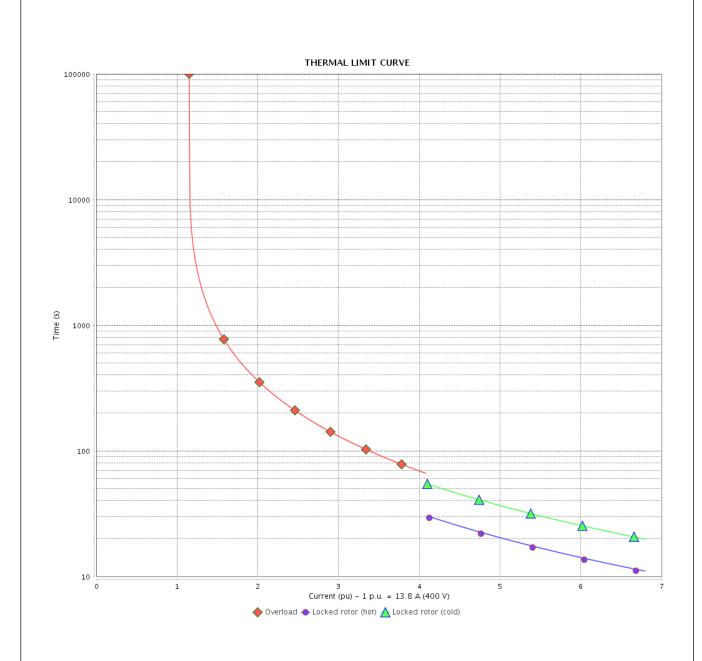
Customer	:					
Product line		: JP Pump NEMA Premium Efficiency Three-Phase		Product code :	13482980	
	_	molericy Trifee I flase	(Catalog # :	01036OT3V2	213JPV-S
Performance		00/400 V 60 Hz 2P		e	0.40=4	
Rated current LRC	: 21 : 6.	7.6/13.8 A .8	Moment of Duty cycle	f inertia (J)	: 0.4651 sq.ft.l : Cont.(S1)	D
Rated torque	: 14	4.9 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		00 % 80 %	Service far Temperatu		: 1.15 : 80 K	
Rated speed		535 rpm	Design	3 1.00	: B	
Heating constan	t					
Cooling constant			1	1		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
D /	40/04/0000	-			1 4 6	TOVISION

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary		Checked	Date
Performed by					
Checked by				Page	Revision
Date	12/04/2022			5/6	

VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

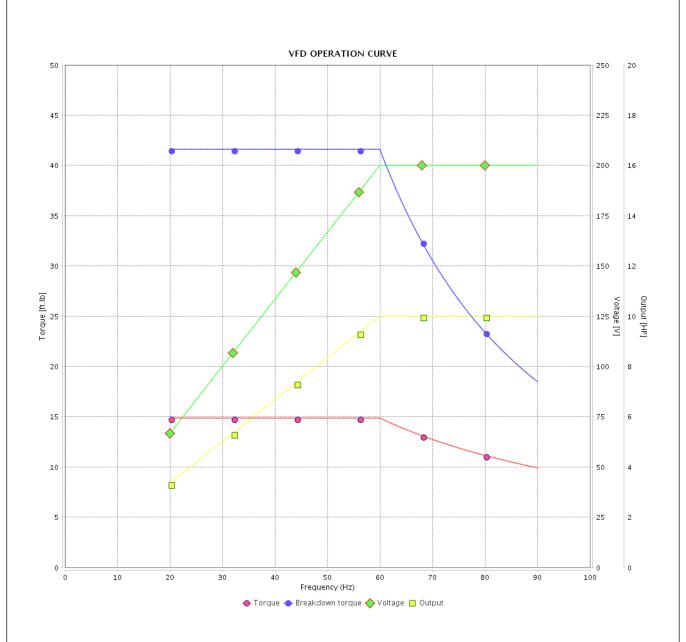
12/04/2022

Product line : JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 13482980

Catalog #: 01036OT3V213JPV-S



Performance : 200/400 V 60 Hz 2P : 27.6/13.8 A Rated current Moment of inertia (J) : 0.4651 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class Rated torque : 14.9 ft.lb : F Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 3535 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

6/6

