DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484973

Catalog #: 00712OT3E254JP-W40

Frame : 254JP Cooling method : IC01 - ODP

Insulation class Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

: 1000 m.a.s.l. Approx. weight³ : 221 lb Altitude Moment of inertia (J) Protection degree : IP23 : 2.29 sq.ft.lb

Design : B Output [HP] 7.5 7.5 7.5 7.5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 19.9/9.94 11.4 11.1 11.0 L. R. Amperes [A] 67.3 133/66.6 71.0 74.8 5.9x(Code G) 6.4x(Code H) 6.8x(Code J) LRC [A] 6.7x(Code H) No load current [A] 10.8/5.40 5.30 5.80 6.10 Rated speed [RPM] 1180 975 975 980 Slip [%] 1.67 2.50 2.50 2.00 Rated torque [ft.lb] 33.4 40.4 40.4 40.2 Locked rotor torque [%] 260 190 210 229 Breakdown torque [%] 300 240 260 290 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 28s (cold) 16s (hot) 21s (cold) 12s (hot) 21s (cold) 12s (hot) 19s (cold) 11s (hot) Noise level² 59.0 dB(A) 25% 86.6 87.4 87.7 87.1 50% 87.5 87.6 87.9 87.3 Efficiency (%) 75% 89.5 88.0 0.88 88.0 100% 90.2 88.0 0.88 88.0 25% 0.34 0.40 0.36 0.33 50% 0.58 0.65 0.61 0.58 Power Factor 75% 0.71 0.70 0.77 0.74 0.79 100% 0.77 0.83 0.81

Drive end Non drive end Foundation loads Bearing type 6309 Z C3 6209 Z C3 Max. traction Without Max. compression

Sealing Without Bearing Seal Bearing Seal

Lubricant amount 9 g Lubricant type

20000 h Lubrication interval 20000 h Mobil Polyrex EM

Notes

USABLE @208V 22.0A SF 1.15 SFA 25.3A

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.

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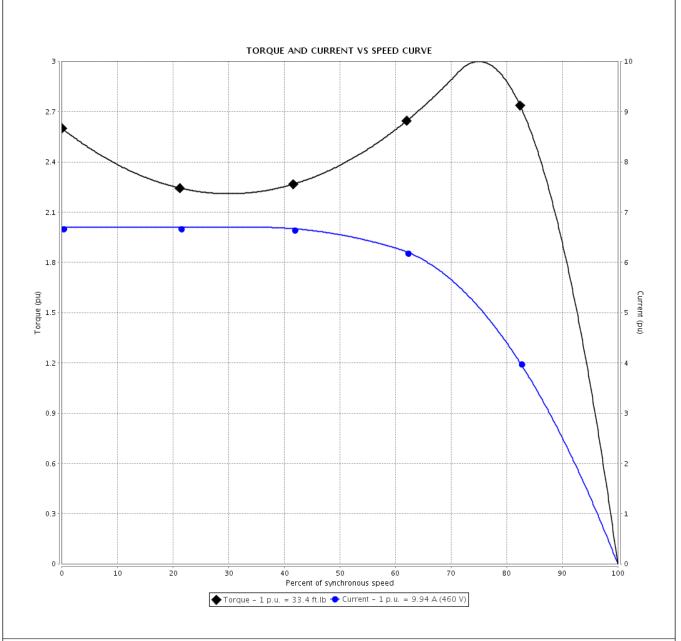
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484973

Catalog #: 00712OT3E254JP-W40



: 230/460 V 60 Hz 6P Performance Rated current : 19.9/9.94 A Moment of inertia (J) : 2.29 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 33.4 ft.lb Insulation class Rated torque : F : 260 % Service factor Locked rotor torque : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

Locked rotor time : 28s (cold) 16s (hot)

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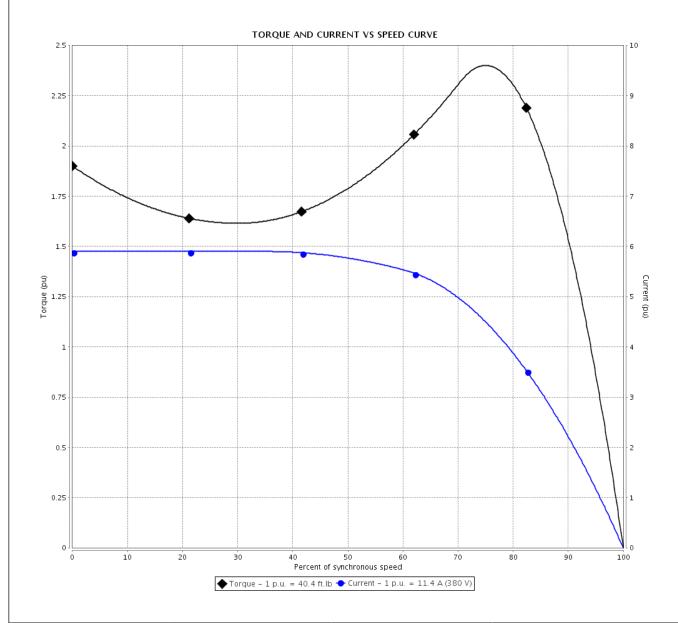
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484973

Catalog #: 00712OT3E254JP-W40



Performance : 380 V 50 Hz 6P IE3 Rated current : 11.4 A Moment of inertia (J) : 2.29 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 40.4 ft.lb : F : 190 % Locked rotor torque Service factor : 1.00 Breakdown torque : 240 % Temperature rise : 80 K : B Rated speed : 975 rpm Design Locked rotor time : 21s (cold) 12s (hot)

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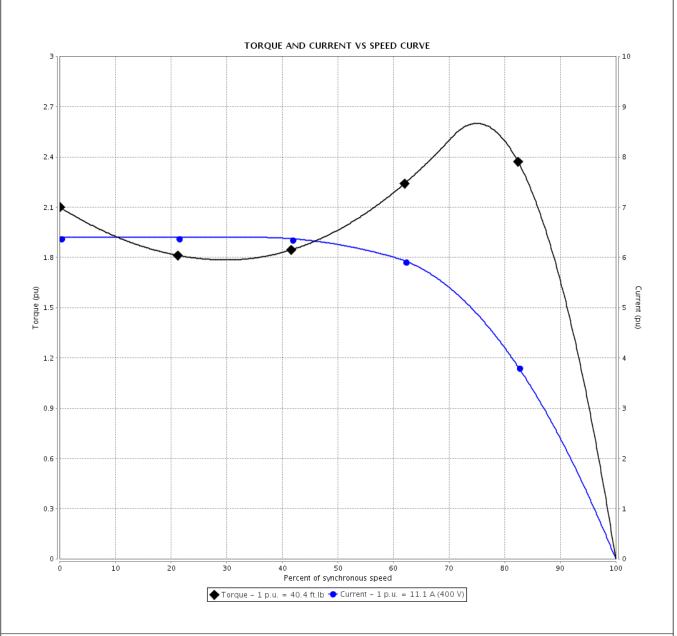
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484973

Catalog #: 00712OT3E254JP-W40



Performance	: 400 V 50 Hz 6P IE3			
Rated current	: 11.1 A	Moment of inertia (J)	: 2.29 sq.ft.lb	
LRC	: 6.4	Duty cycle	: Cont.(S1)	
Rated torque	: 40.4 ft.lb	Insulation class	: F	
Locked rotor torque	: 210 %	Service factor	: 1.00	
Breakdown torque	: 260 %	Temperature rise	: 80 K	
Rated speed	: 975 rpm	Design	: B	
Looked retentions	: 04a (aald) 40a (bat)	'		

Locked rotor time : 21s (cold) 12s (hot)

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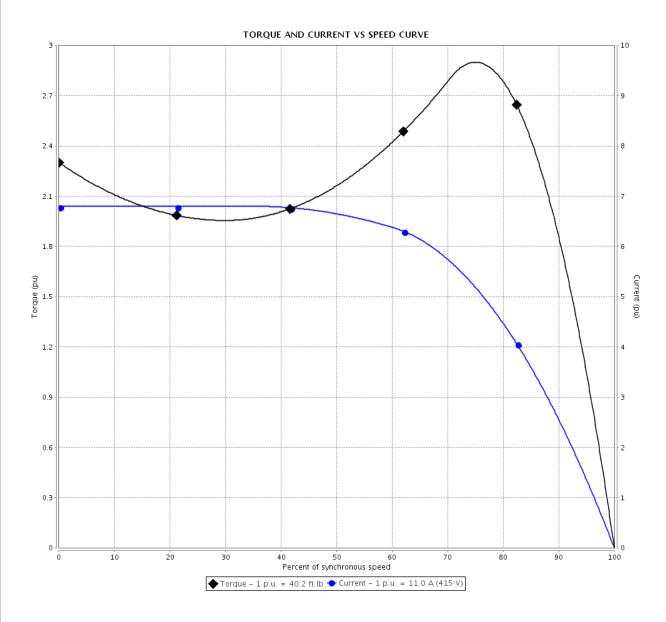
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484973

Catalog #: 00712OT3E254JP-W40



Performance : 415 V 50 Hz 6P IE3 Rated current : 11.0 A Moment of inertia (J) : 2.29 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) : 40.2 ft.lb Insulation class Rated torque : F : 229 % Locked rotor torque Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K : B Rated speed : 980 rpm Design

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

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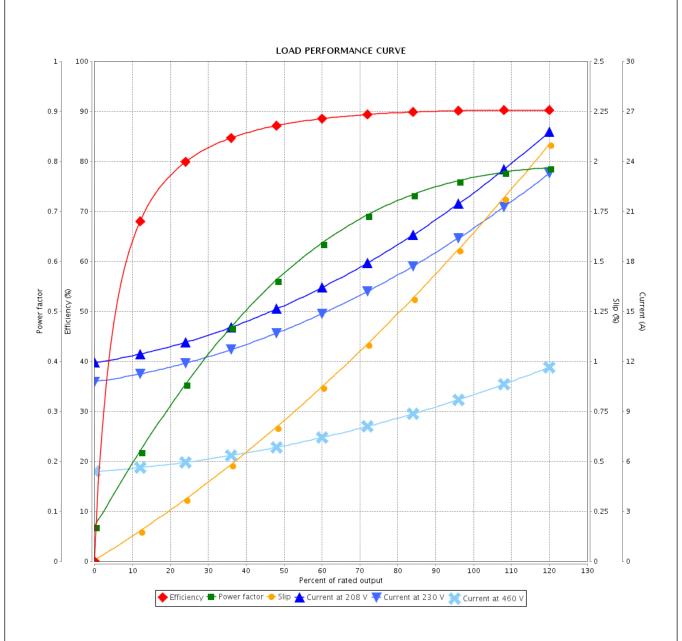
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484973

Catalog #: 00712OT3E254JP-W40

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Performance	: 230/460 V 60 Hz 6P				
Rated current	: 19.9/9.94 A	Moment of	inertia (J)	: 2.29 sq.ft.lb	
LRC	: 6.7	Duty cycle		: Cont.(S1)	
Rated torque	: 33.4 ft.lb	Insulation	class	: F	
Locked rotor torque	: 260 %	Service fa	ctor	: 1.25	
Breakdown torque	: 300 %	Temperature rise		: 80 K	
Rated speed	: 1180 rpm	Design	Design		
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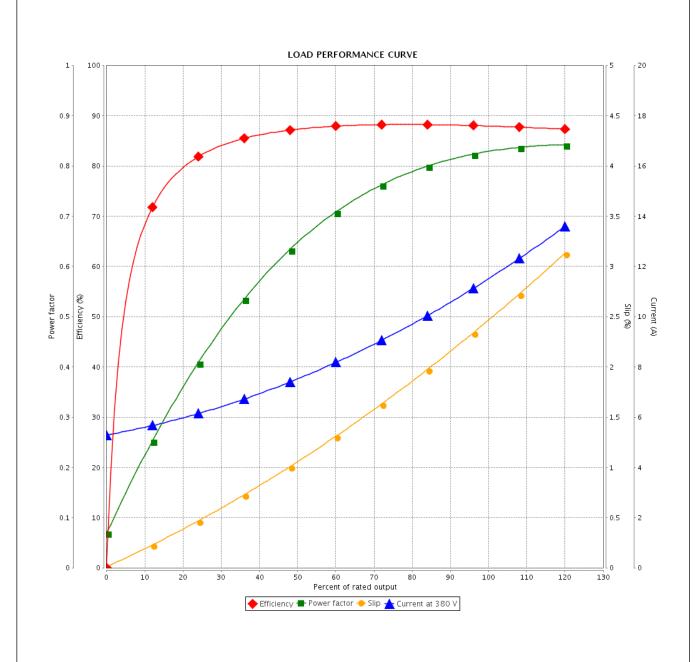
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484973

Catalog #: 00712OT3E254JP-W40



Performance	: 3	: 380 V 50 Hz 6P IE3				
Rated current	: 1	1.4 A	Moment o	f inertia (J)	: 2.29 sq.ft.lb	
LRC	: 5	5.9	Duty cycle)	: Cont.(S1)	
Rated torque	: 4	0.4 ft.lb	Insulation	class	: F	
Locked rotor toro	que : 1	90 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue : 2	240 %	Temperature rise		: 80 K	
Rated speed	: 9	: 975 rpm			: B	
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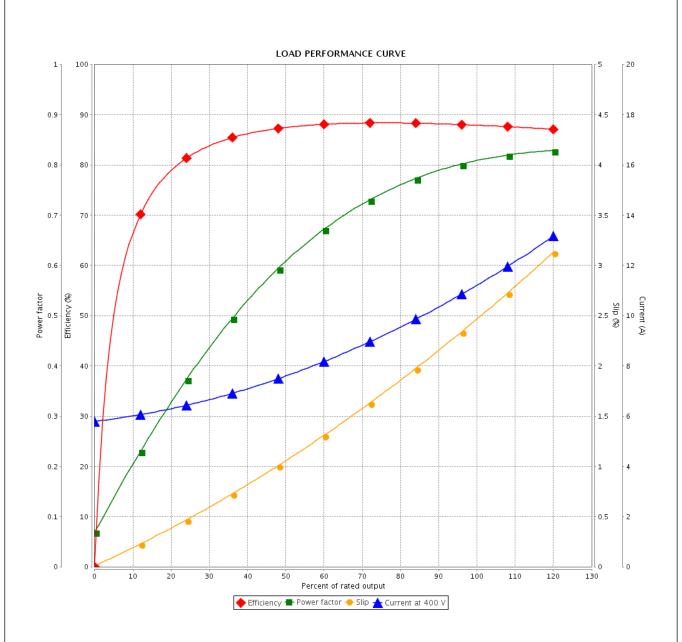
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484973

Catalog #: 00712OT3E254JP-W40

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Performance	: 400 V 50 Hz 6P IE3				
Rated current	: 11.1 A	Moment o	f inertia (J)	: 2.29 sq.ft.lb	
LRC	: 6.4	Duty cycle)	: Cont.(S1)	
Rated torque	: 40.4 ft.lb	Insulation	class	: F	
Locked rotor torque	: 210 %	Service fa	ctor	: 1.00	
Breakdown torque	: 260 %	Temperature rise		: 80 K	
Rated speed	: 975 rpm	Design		: B	
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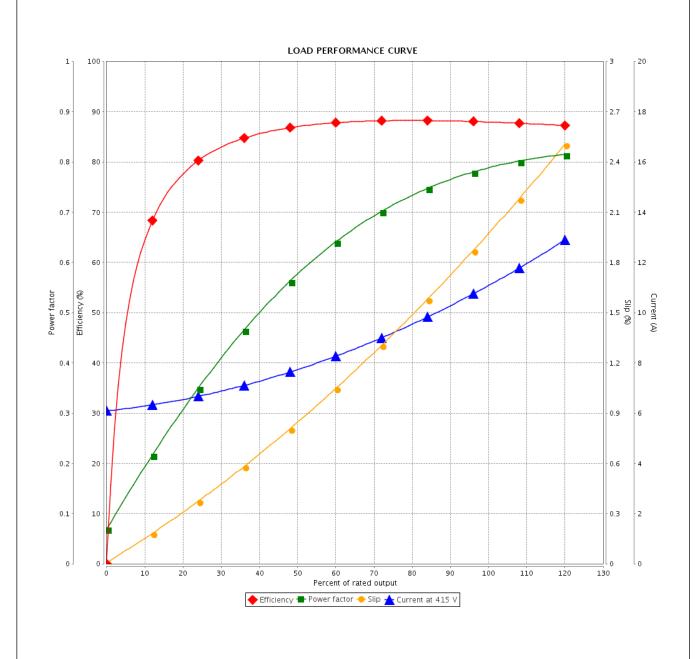
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484973

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Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	ed current : 11.0 A Moment of in		of inertia (J)	: 2.29 sq.ft.lb		
LRC	: 6.	8	Duty cycle	, ,	: Cont.(S1)	
Rated torque	: 40	0.2 ft.lb	Insulation		: F ` ´	
Locked rotor torq	ue : 22	29 %	Service fa	ictor	: 1.00	
Breakdown torque		90 %	Temperati	Temperature rise		
Rated speed	: 98	: 980 rpm Design			: B	
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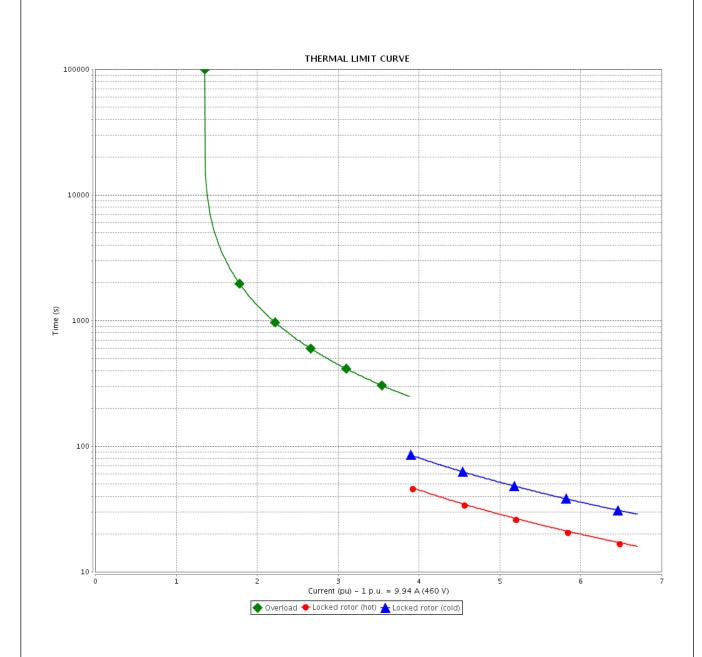


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Product line		W40 JP Pump NEMA Prem fficiency Three-Phase	iium	Product code :	14484973	
	_			Catalog # :	00712OT3E2	54JP-W40
Performance	. 20	30/460 V 60 Hz 6P				
Rated current		30/460 V 60 HZ 6P 9.9/9.94 A	Moment o	f inertia (J)	: 2.29 sq.ft.lb	
LRC	: 6.	.7	Duty cycle	;	: Cont.(S1)	
Rated torque		3.4 ft.lb	Insulation		: F	
Locked rotor torque Breakdown torque		60 % 00 %	Service fa Temperatu		: 1.25 : 80 K	
Rated speed		180 rpm	Design		: B	
Heating constant						
Cooling constant						
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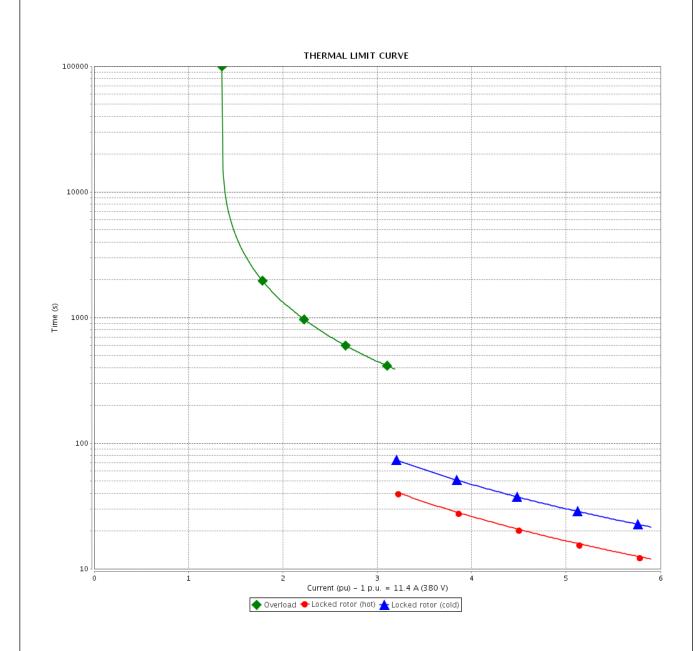


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Product line	: \ Et	W40 JP Pump NEMA Prem fficiency Three-Phase	ium I	Product code :	14484973	
	_	,	(Catalog # :	00712OT3E2	54JP-W40
Performance		80 V 50 Hz 6P IE3	N.4	************	0.00	
Rated current LRC	: 11 : 5.	1.4 A 9	Moment of Duty cycle	f inertia (J)	: 2.29 sq.ft.lb : Cont.(S1)	
Rated torque	: 40	0.4 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		90 % 40 %	Service fac Temperatu		: 1.00 : 80 K	
Rated speed		75 rpm	Design		: B	
Heating constant						
Cooling constant	<u> </u>		Т			
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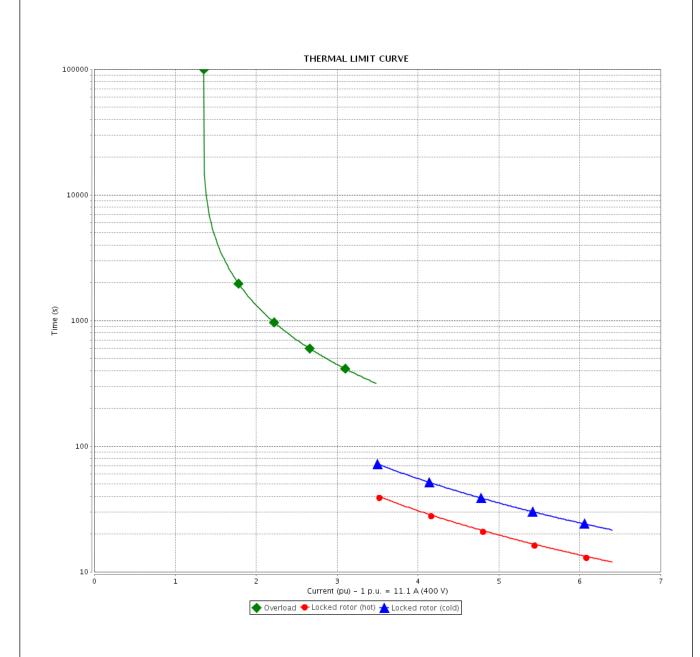


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Product line	. 1	MAO ID Dumo NEMA Deces	ium !	Product code :	14494072	
Product line	: \ E:	W40 JP Pump NEMA Prem fficiency Three-Phase	ium i	Product code :	14484973	
		,	(Catalog # :	00712OT3E2	54JP-W40
Performance		00 V 50 Hz 6P IE3	Managata	Finantia (I)	. 2 20 az # lb	
Rated current LRC	: 6.		Duty cycle	f inertia (J)	: 2.29 sq.ft.lb : Cont.(S1)	
Rated torque		0.4 ft.lb 10 %	Insulation Service fac		: F : 1.00	
Locked rotor tord Breakdown torqu	ie : 26	60 %	Temperatu		: 80 K	
Rated speed		75 rpm	Design		: B	
Heating constant						
Cooling constant	<u> </u>	Changes Comment	Γ	Dorform	Charles	Data
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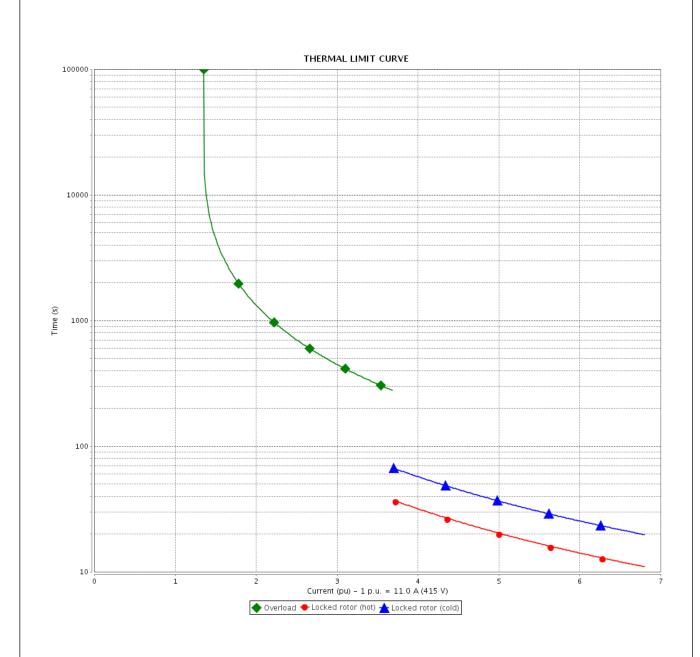


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14484973 00712OT3E2	54JP-W40
Performance		415 V 50 Hz 6P IE3				
Rated current LRC	:	11.0 A 6.8	Moment o	f inertia (J)	: 2.29 sq.ft.lb : Cont.(S1)	
Rated torque	:	40.2 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu	ue :	229 % 290 %	Service fa		: 1.00 : 80 K	
Rated speed Heating constant		980 rpm	Design		: B	
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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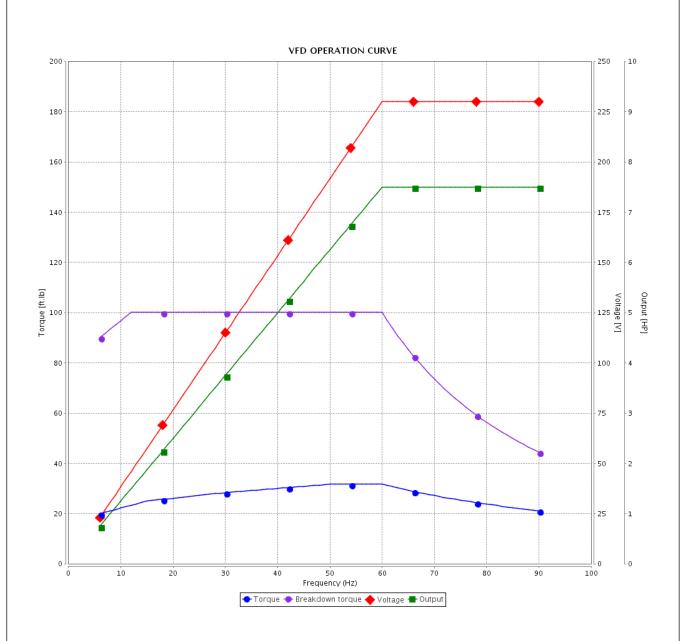
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484973

Catalog #: 00712OT3E254JP-W40

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Performance : 230/460 V 60 Hz 6P : 19.9/9.94 A Rated current Moment of inertia (J) : 2.29 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) Insulation class : 33.4 ft.lb : F Rated torque : 260 % Locked rotor torque Service factor : 1.25 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

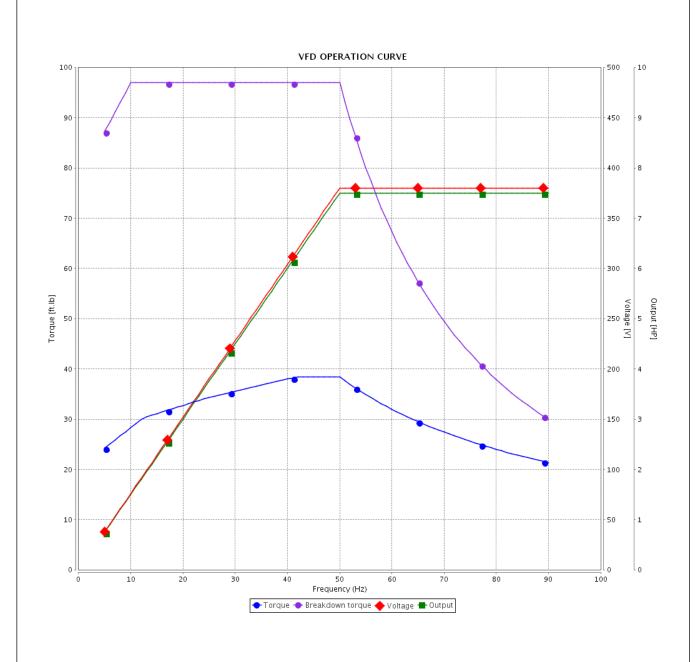
Product code: 14484973

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Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.4 A : 5.9 : 40.4 ft.lb : 190 % : 240 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.29 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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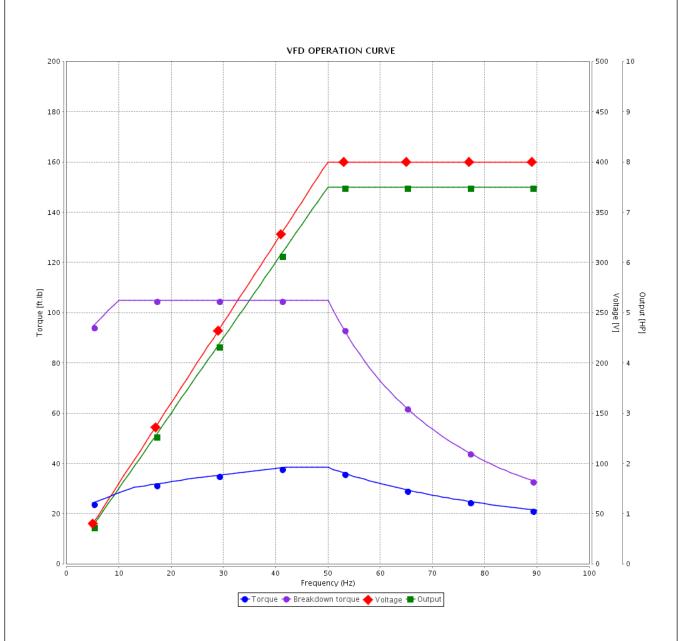
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14484973

Catalog #: 00712OT3E254JP-W40

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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.1 A : 6.4 : 40.4 ft.lb : 210 % : 260 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.29 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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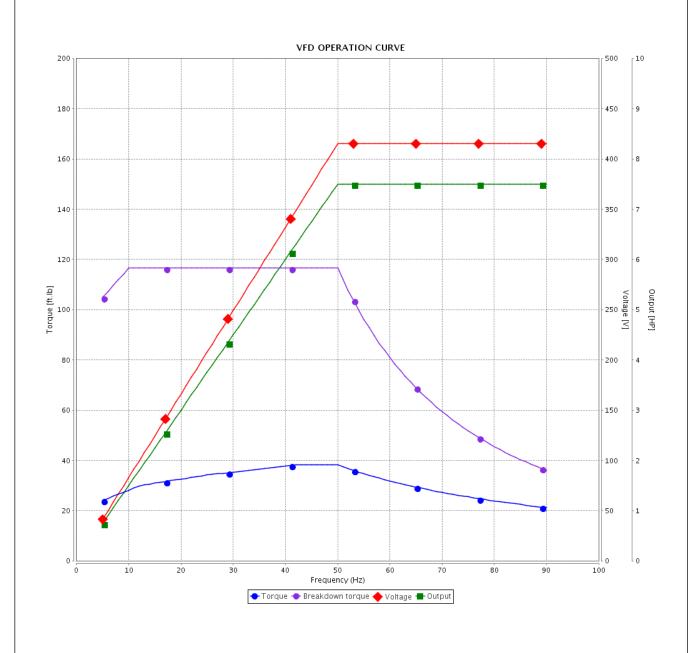
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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.0 A : 6.8 : 40.2 ft.lb : 229 % : 290 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 2.29 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
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