DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14436467

Catalog #: 01518OT3E254JP-W40

Frame : 254JP Cooling method : IC01 - ODP

Insulation class Mounting : F-1

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

: 1000 m.a.s.l. Altitude Approx. weight3 : 269 lb

Attitude . 1000 III.a.s.i. Approx. weight . 209 ib					ID
Protection degre	е	: IP23	Moment of ine	ertia (J) : 2.72	sq.ft.lb
Design		: B			
Output [HP]		15	10	10	10
Poles	4 4 4		4		
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		35.0/17.5	15.3	14.9	14.5
L. R. Amperes [A]		224/112	101	101	102
LRC [A]		6.4x(Code G)	6.6x(Code H)	6.8x(Code H)	7.0x(Code J)
No load current [A]	14.4/7.20	7.22	7.71	8.12
Rated speed [RPN	/ []	1770	1470	1475	1477
Slip [%]	Slip [%]		2.00	1.67	1.53
Rated torque [ft.lb]	Rated torque [ft.lb]		35.6	35.5	35.5
Locked rotor torqu	ocked rotor torque [%]		250	280	310
Breakdown torque	[%]	280	320 350		380
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		30s (cold) 17s (hot)	36s (cold) 20s (hot)	32s (cold) 18s (hot)	28s (cold) 16s (hot)
Noise level ²		62.0 dB(A)			
	25%	91.0	88.9	88.9	88.9
Efficiency (%)	50%	91.7	89.2	89.2	89.2
Efficiency (70)	75%	92.4	91.0	91.0	91.0
100%		93.0	91.0	91.0	91.0
	25%	0.42	0.38	0.34	0.32
Power Factor	50%	0.66	0.62	0.58	0.55
I OWEL FACIOI	75%	0.78	0.75	0.72	0.69
	100%	0.85	0.82	0.80	0.79

Drive end Non drive end 6309 Z C3 6209 Z C3

Bearing type Sealing Without Without

> Bearing Seal Bearing Seal

20000 h 20000 h Lubrication interval Lubricant amount 9 g Mobil Polyrex EM Lubricant type

Foundation loads Max. traction

Max. compression

Notes

USABLE @208V 38.7A SF 1.15 SFA 44.5A

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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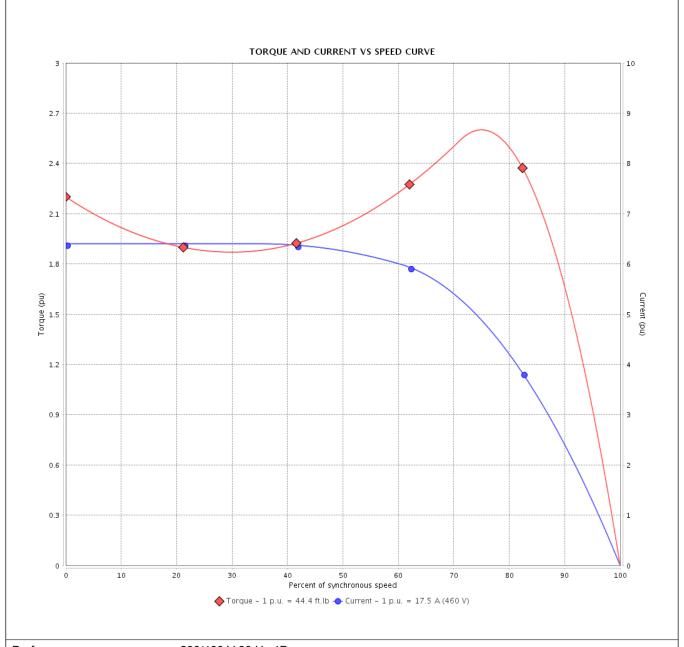
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14436467

Catalog #: 01518OT3E254JP-W40



Performance : 230/460 V 60 Hz 4P Rated current : 35.0/17.5 A Moment of inertia (J) : 2.72 sq.ft.lb **LRC** : 6.4 Duty cycle : Cont.(S1) : 44.4 ft.lb Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K

Locked rotor time : 30s (cold) 17s (hot)

: 1770 rpm

Rated speed

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Design

: B



Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 JP Pump NEMA Premium Product code: 14436467 Efficiency Three-Phase Catalog #: 01518OT3E254JP-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 Torque (pu) 1.2 0.6 0.3 Percent of synchronous speed ◆ Torque - 1 p.u. = 35.6 ft.lb ◆ Current - 1 p.u. = 15.3 A (380 V) : 380 V 50 Hz 4P IE3 Performance Rated current : 15.3 A Moment of inertia (J) : 2.72 sq.ft.lb : Cont.(S1) LRC : 6.6 Duty cycle Rated torque : 35.6 ft.lb Insulation class

Breakdown torque : 32		50 % 20 % 170 rpm	Temperature rise		: 1.00 : 80 K : B	
Locked rotor time	e : 3	6s (cold) 20s (ho	t)			
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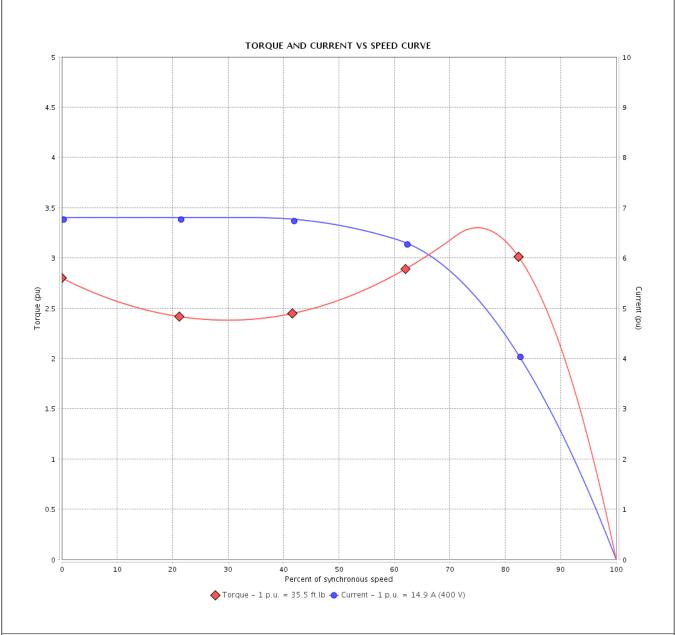
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14436467

Catalog #: 01518OT3E254JP-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 14.9 A Moment of inertia (J) : 2.72 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 35.5 ft.lb : F Service factor Locked rotor torque : 280 % : 1.00 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B

Locked rotor time : 32s (cold) 18s (hot)

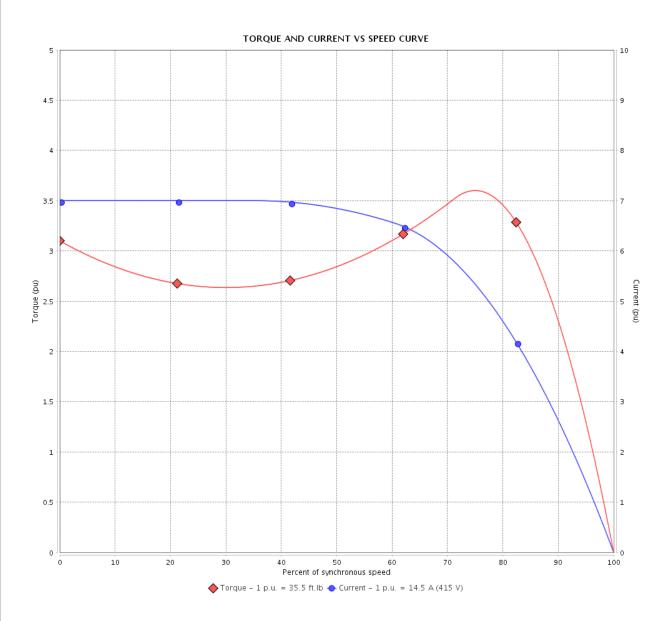
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Customer Product line : W40 JP Pump NEMA Premium Product code: 14436467 Efficiency Three-Phase

Catalog #: 01518OT3E254JP-W40



Performance	: 415 V 50 Hz 4P IE3			
Rated current	: 14.5 A	Moment of inertia (J)	: 2.72 sq.ft.lb	
LRC	: 7.0	Duty cycle	: Cont.(S1)	
Rated torque	: 35.5 ft.lb	Insulation class	: F	
Locked rotor torque	: 310 %	Service factor	: 1.00	
Breakdown torque	: 380 %	Temperature rise	: 80 K	
Rated speed	: 1477 rpm	Design	: B	
Locked rotor time	: 28s (cold) 16s (hot)			

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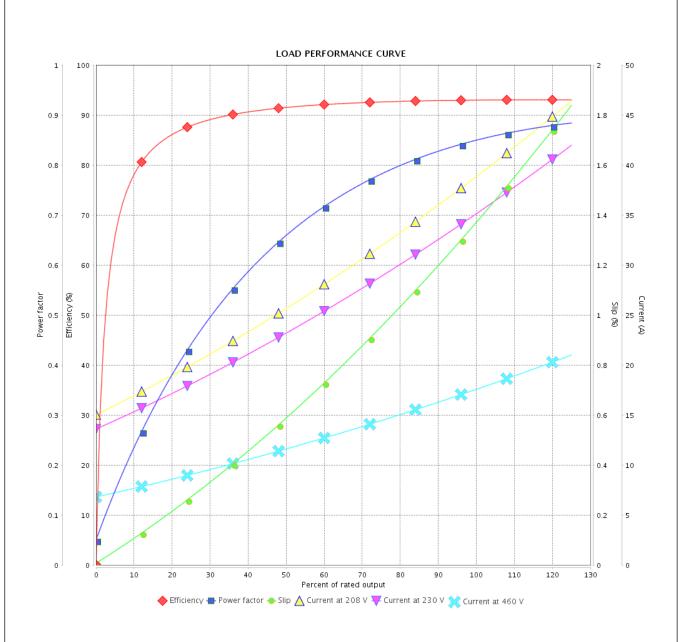
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14436467

Catalog #: 01518OT3E254JP-W40



Performance : 230/460 V 60 Hz 4P : 35.0/17.5 A Rated current Moment of inertia (J) : 2.72 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class Rated torque : 44.4 ft.lb : F Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

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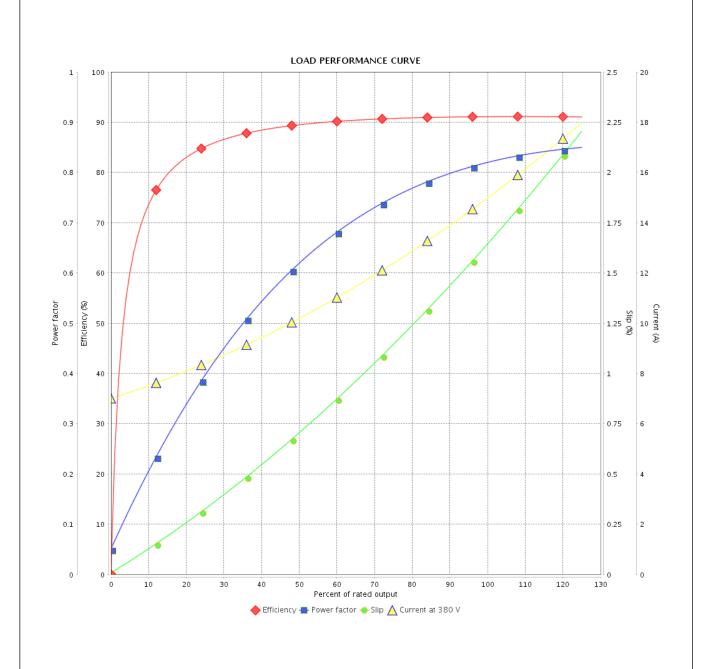
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14436467

Catalog #: 01518OT3E254JP-W40



Performance	: 3	: 380 V 50 Hz 4P IE3				
Rated current	: 1:	5.3 A	Moment o	of inertia (J)	: 2.72 sq.ft.lb	
LRC	: 6	.6	Duty cycle	•	: Cont.(S1)	
Rated torque	: 3	5.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 2:	50 %	Service fa	ictor	: 1.00	
Breakdown torque	e : 3:	Temperature rise Design		re rise : 80 K		
Rated speed	: 14			: B		
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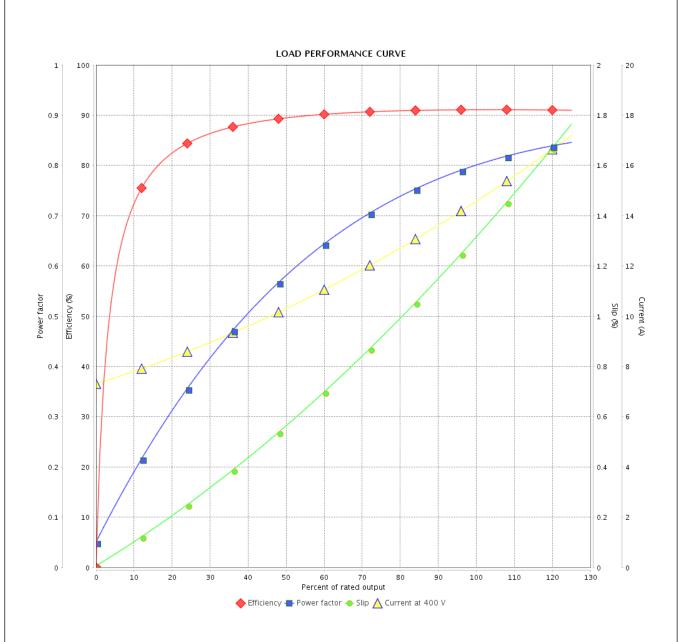
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14436467

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Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.9 A : 6.8 : 35.5 ft.lb : 280 % : 350 % : 1475 rpm	Duty cycle : Cont Insulation class : F Service factor : 1.00		: 1.00 : 80 K	
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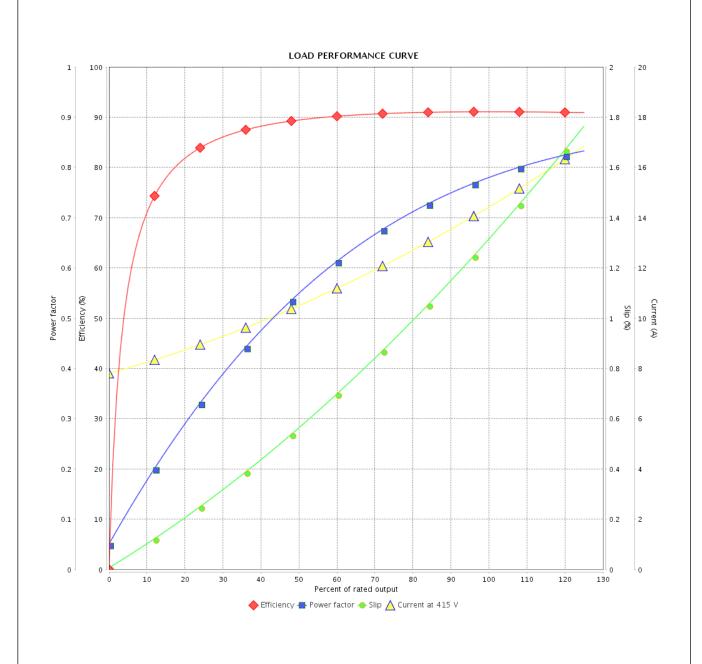
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14436467

Catalog #: 01518OT3E254JP-W40



Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	14.5 A	Moment o	f inertia (J)	: 2.72 sq.ft.lb	
LRC	:	7.0	Duty cycle	` '	: Cont.(S1)	
Rated torque	:	35.5 ft.lb	Insulation		: F	
Locked rotor torque	e :	310 %	Service fa	ctor	: 1.00	
Breakdown torque		: 380 % Temp		ıre rise	: 80 K	
Rated speed	:	1477 rpm	Design		: B	
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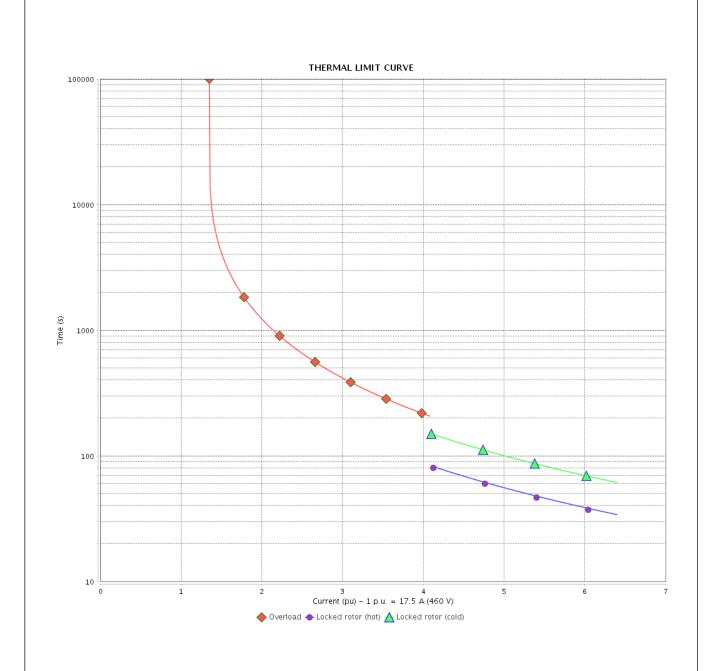


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Product line		· MAO ID Duma NEMA De	ium	Product code :	14436467	
Product line	i	: W40 JP Pump NEMA Prem Efficiency Three-Phase	ium	Product code .	14430407	
		•		Catalog # :	01518OT3E2	54JP-W40
Performance		230/460 V 60 Hz 4P				
Rated current LRC Rated torque	: (35.0/17.5 A 6.4 44.4 ft.lb	Moment of Duty cycle Insulation		: 2.72 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord	que : :	240 %	Service fa	ctor	. г : 1.25	
Breakdown torqu Rated speed	ie ::	280 % 1770 rpm	Temperati Design		: 80 K : B	
Heating constan						
Cooling constant	Ţ	Changes Summers		Performed	Checked	Doto
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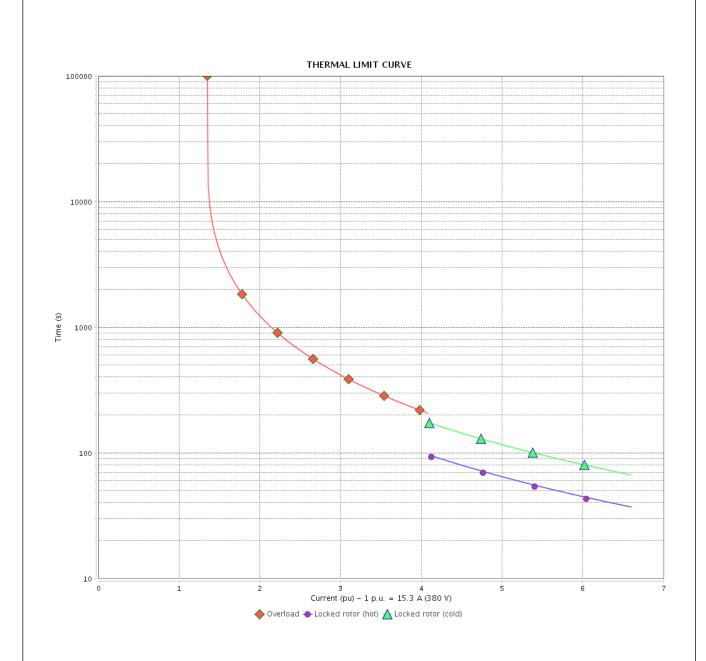


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Product line	: E	W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14436467 01518OT3E25	54JP-W40
Performance	: 3	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque	: 6	5.3 A i.6 i5.6 ft.lb	Moment of Duty cycle Insulation		: 2.72 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	que : 2 ue : 3	50 % 20 % 470 rpm	Service fac Temperatu Design	ctor	: 1.00 : 80 K : B	
Heating constan		77 O IPIII	Design		. u	
Cooling constant	t	Changes Summary		Performed	Checked	Date
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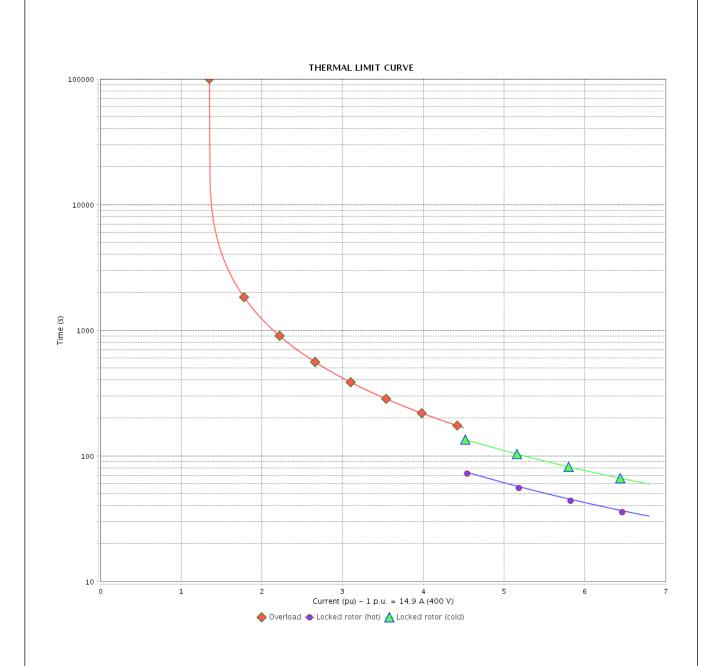


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Dun do at line		· WAO ID D NEMA D	:	Decident and a	44400407	
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	ium	Product code :	14436467	
		,		Catalog # :	01518OT3E2	54JP-W40
Performance	:	400 V 50 Hz 4P IE3				
Rated current	:	14.9 A	Moment o	f inertia (J)	: 2.72 sq.ft.lb	
LRC	:	6.8 35.5 ft.lb	Duty cycle	•	: Cont.(S1) : F	
Rated torque Locked rotor torc		280 %	Insulation Service fa		: 1.00	
Breakdown torqu Rated speed	ie :	350 % 1475 rpm	Temperati		: 80 K : B	
		1 4 70 Ipili	Design		. Б	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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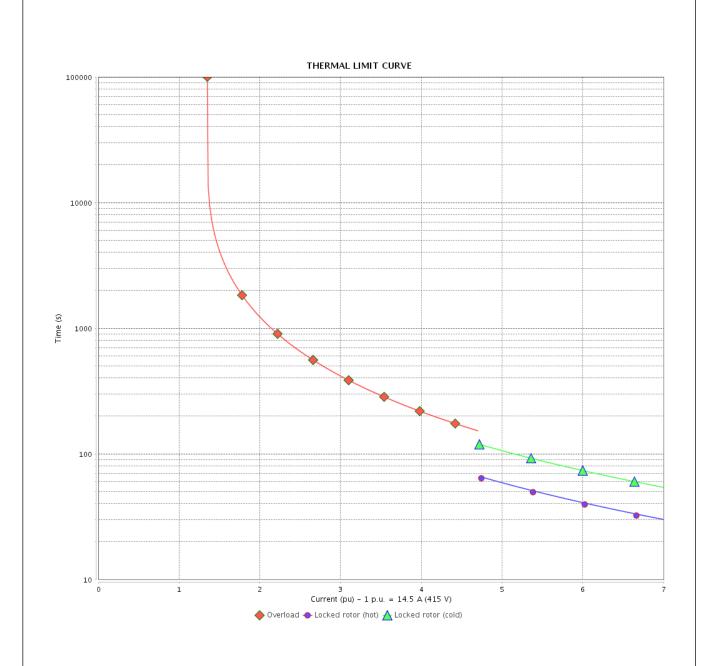


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	nium	Product code :	14436467	
		Elliciency Three-Friase		Catalog # :	01518OT3E2	54JP-W40
Performance		: 415 V 50 Hz 4P IE3				
Rated current		: 14.5 A	Moment o	of inertia (J)	: 2.72 sq.ft.lb	
LRC	:	: 7.0	Duty cycle	9	: Cont.(S1)	
Rated torque Locked rotor tord		: 35.5 ft.lb : 310 %	Insulation Service fa		: F : 1.00	
Breakdown torqu	ue :	: 380 %	Temperat		: 80 K	
Rated speed		: 1477 rpm	Design		: B	
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Cooling constant	t	Changes Commercial		Dorform	Checked	Data
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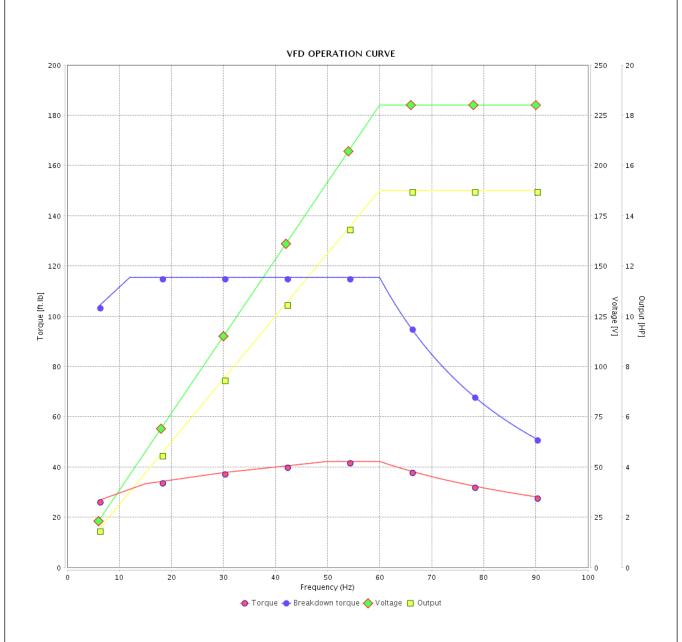
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14436467

Catalog #: 01518OT3E254JP-W40

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Performance : 230/460 V 60 Hz 4P : 35.0/17.5 A Rated current Moment of inertia (J) : 2.72 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.4 Insulation class : 44.4 ft.lb : F Rated torque Locked rotor torque : 240 % Service factor : 1.25 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1770 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



Customer

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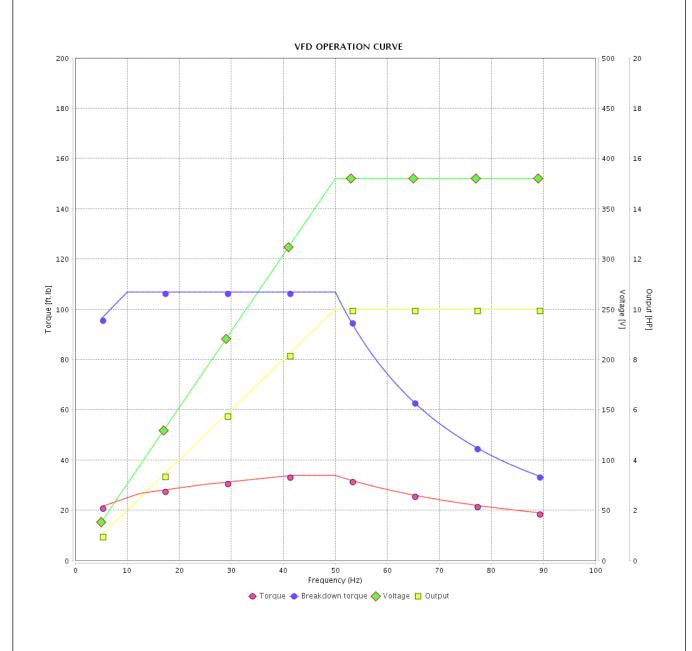
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14436467

Catalog #: 01518OT3E254JP-W40

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Performance : 380 V 50 Hz 4P IE3 : 15.3 A Rated current Moment of inertia (J) : 2.72 sq.ft.lb **LRC** : 6.6 Duty cycle : Cont.(S1) : 35.6 ft.lb Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



Customer :

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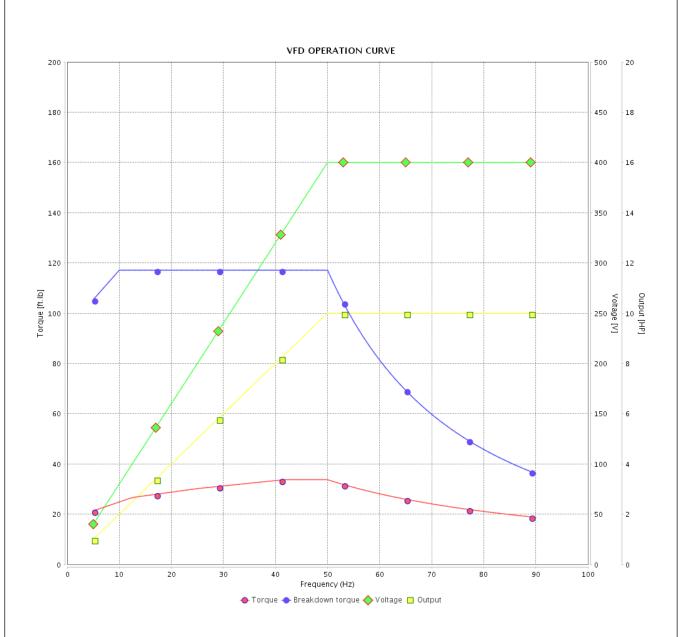
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Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14436467

Catalog #: 01518OT3E254JP-W40



Performance : 400 V 50 Hz 4P IE3 : 14.9 A Rated current Moment of inertia (J) : 2.72 sq.ft.lb **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class : 35.5 ft.lb : F Rated torque Locked rotor torque : 280 % Service factor : 1.00 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked **Changes Summary** Date Performed by Checked by Revision Page

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Three Phase Induction Motor - Squirrel Cage



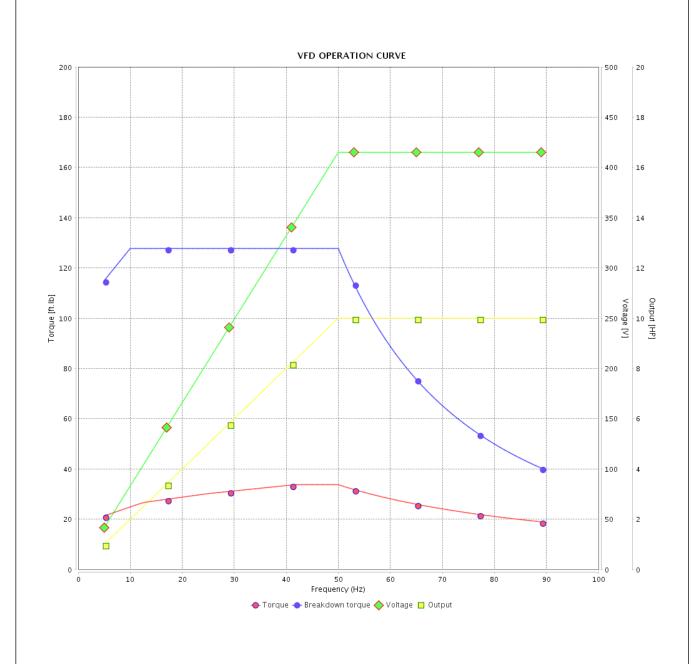
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Performance : 415 V 50 Hz						
Rated current : 14.		4.5 A	Moment o	Moment of inertia (J)		
LRC : 7.0		0	Duty cycle	Duty cycle		
Rated torque	: 3	5.5 ft.lb	Insulation	Insulation class		
•		10 %	Service fa	ctor	: 1.00	
Breakdown torque ::		30 %	Temperati	Temperature rise		
Rated speed		477 rpm	Design	Design		
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