DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40

: 284JP Cooling method : IC01 - ODP Frame

Insulation class : F 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 : 334 lb Altitude

Protection degree		: IP23	Moment of ine	Moment of inertia (J) : 4.80 sq.ft.lb			
Design		: B					
Output [HP]		15	10	10	10		
Poles		6	6	6	6		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		36.8/18.4	15.8	15.4	15.4		
L. R. Amperes [A]		232/116	115	116	122		
LRC [A]		6.3x(Code G)	7.3x(Code J)	7.5x(Code K)	7.9x(Code K)		
No load current [A]	15.6/7.80	7.80	8.40	8.90		
Rated speed [RPN	/ []	1180	980	985	985		
Slip [%]	Slip [%]		2.00	1.50	1.50		
Rated torque [ft.lb]	Rated torque [ft.lb]		53.6	53.3	53.3		
Locked rotor torqu	e [%]	260	290	330	360		
Breakdown torque	[%]	260	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		28s (cold) 16s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	28s (cold) 16s (hot)		
Noise level ²		59.0 dB(A)					
	25%	90.8	88.3	88.4	88.4		
Efficiency (9/)	50%	91.0	88.6	88.6	88.6		
Efficiency (%)	75%	91.7	89.0	89.0	89.0		
	100%	91.7	89.1	89.1	89.1		
	25%	0.42	0.37	0.33	0.31		
Power Factor	50%	0.67	0.62	0.58	0.55		
Fower Factor	75%	0.77	0.75	0.71	0.68		
	100%	0.82	0.81	0.79	0.76		

Non drive end **Drive** end Foundation loads 6311 Z C3 6211 Z C3

Without Sealing Without Bearing Seal Bearing Seal

20000 h Lubrication interval 20000 h 11 g Lubricant amount Mobil Polyrex EM Lubricant type

Max. traction Max. compression

Notes

Bearing type

USABLE @208V 40.7A SF 1.15 SFA 46.8A

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	11/04/2020			1 / 21	

Three Phase Induction Motor - Squirrel Cage



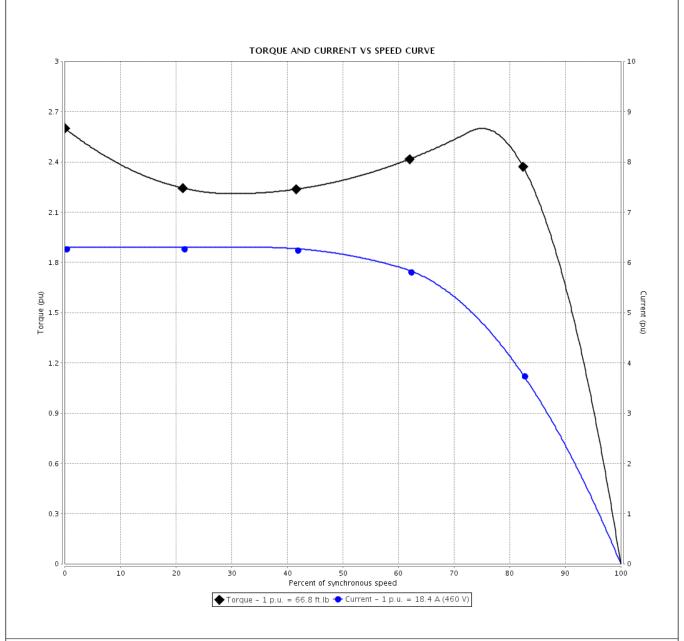
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40



: 230/460 V 60 Hz 6P Performance Rated current : 36.8/18.4 A Moment of inertia (J) : 4.80 sq.ft.lb **LRC** : 6.3 Duty cycle : Cont.(S1) : 66.8 ft.lb Insulation class Rated torque : F : 260 % Service factor Locked rotor torque : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1180 rpm Design : B

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

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			2 / 21	

Three Phase Induction Motor - Squirrel Cage

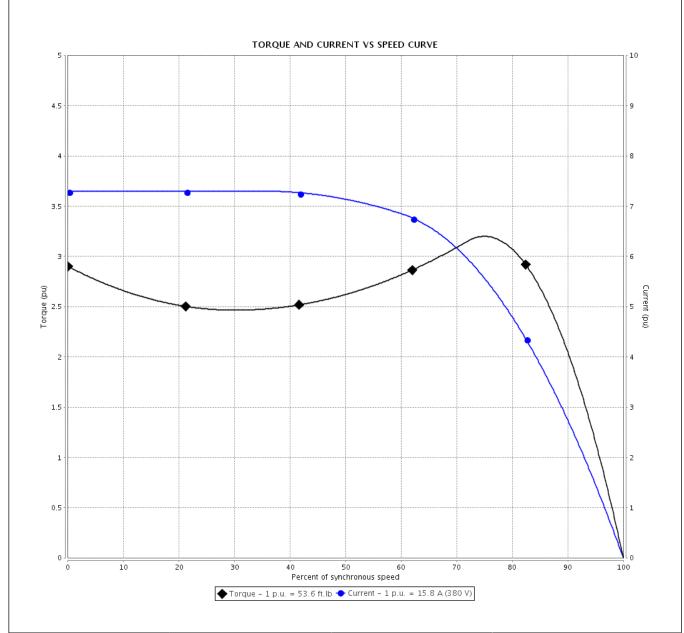


Customer :

Product line : W40 JP Pump NEMA Premium Product code : 14485010

Efficiency Three-Phase

Catalog #: 01512OT3E284JP-W40



Performance : 380 V 50 Hz 6P IE3 Rated current : 15.8 A Moment of inertia (J) : 4.80 sq.ft.lb **LRC** : 7.3 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.6 ft.lb : F : 290 % Locked rotor torque Service factor : 1.00 Breakdown torque : 320 % Temperature rise : 80 K : B Rated speed : 980 rpm Design

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

		, , , ,			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			3 / 21	

Three Phase Induction Motor - Squirrel Cage



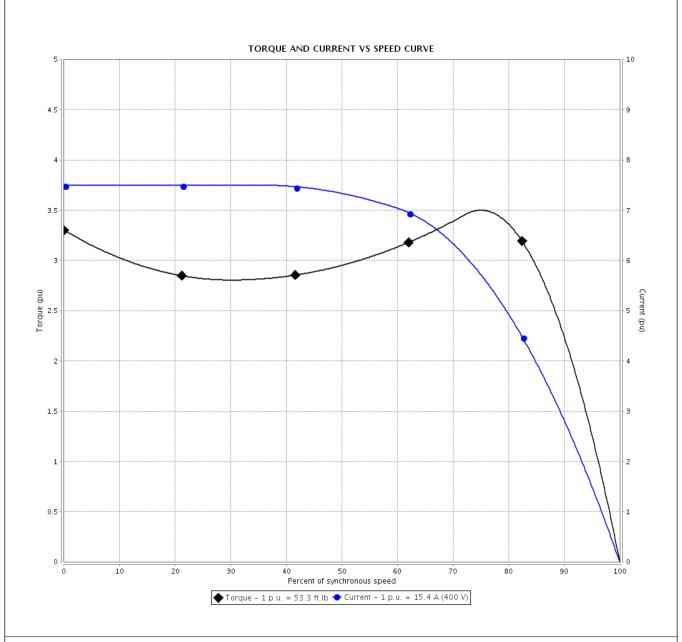
Customer :

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40



: 400 V 50 Hz 6P IE3 Performance Rated current : 15.4 A Moment of inertia (J) : 4.80 sq.ft.lb **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class Rated torque : 53.3 ft.lb : F Service factor Locked rotor torque : 330 % : 1.00 Breakdown torque : 350 % Temperature rise : 80 K Rated speed : 985 rpm Design : B

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

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			4 / 21	



Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 JP Pump NEMA Premium Product code: 14485010 Efficiency Three-Phase Catalog #: 01512OT3E284JP-W40 TORQUE AND CURRENT VS SPEED CURVE 4.5 Current Torque (pu) 0.5 100 Percent of synchronous speed ◆ Torque - 1 p.u. = 53.3 ft.lb ◆ Current - 1 p.u. = 15.4 A (415 V) : 415 V 50 Hz 6P IE3 Performance Rated current : 15.4 A Moment of inertia (J) : 4.80 sq.ft.lb **LRC** : 7.9 Duty cycle : Cont.(S1) Rated torque : 53.3 ft.lb Insulation class : F : 360 % Service factor : 1.00 Locked rotor torque : 80 K Breakdown torque : 380 % Temperature rise : B Rated speed : 985 rpm Design Locked rotor time : 28s (cold) 16s (hot)

		()			
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			5 / 21	
This do	cument is exclusive	property of WEG S/A. Reprinting i	s not allowed without written	authorization of WE	G S/A.

Three Phase Induction Motor - Squirrel Cage



Customer :

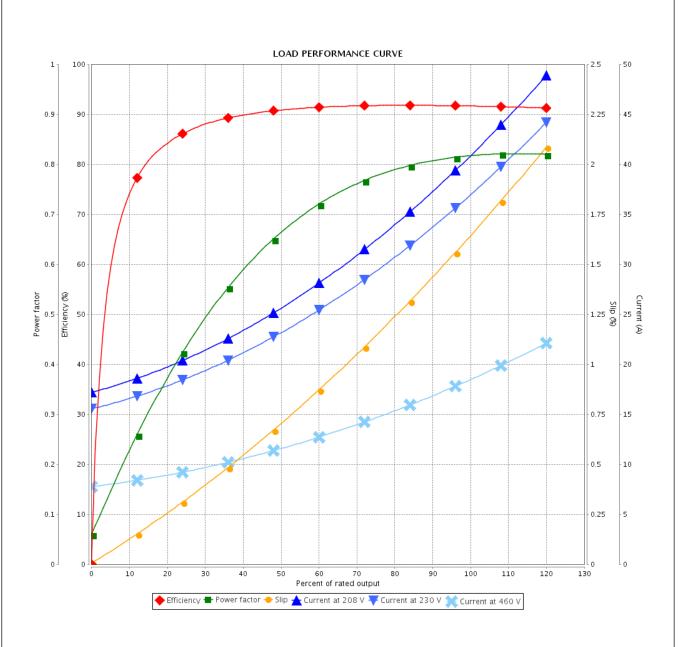
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40

6/21



Performance	: 230/460 V 60 Hz 6P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.8/18.4 A : 6.3 : 66.8 ft.lb : 260 % : 260 % : 1180 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ector	: 4.80 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

11/04/2020

Date

Three Phase Induction Motor - Squirrel Cage



Customer

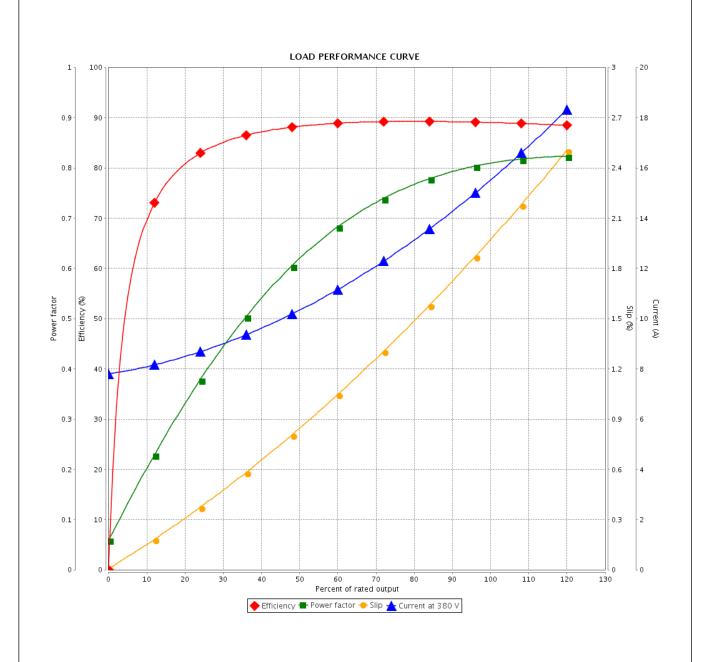
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog # : 01512OT3E284JP-W40

7/21



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.8 A : 7.3 : 53.6 ft.lb : 290 % : 320 % : 980 rpm	Moment of i Duty cycle Insulation cl Service fact Temperature Design	ass or	: 4.80 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

11/04/2020

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

11/04/2020

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

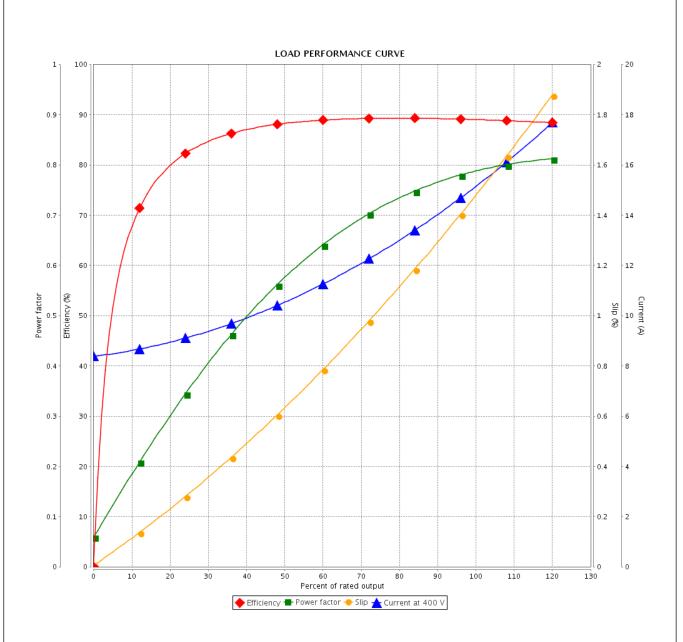
Product code: 14485010

Catalog #: 01512OT3E284JP-W40

Page

8 / 21

Revision



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.4 A : 7.5 : 53.3 ft.lb : 330 % : 350 % : 985 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 4.80 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Three Phase Induction Motor - Squirrel Cage



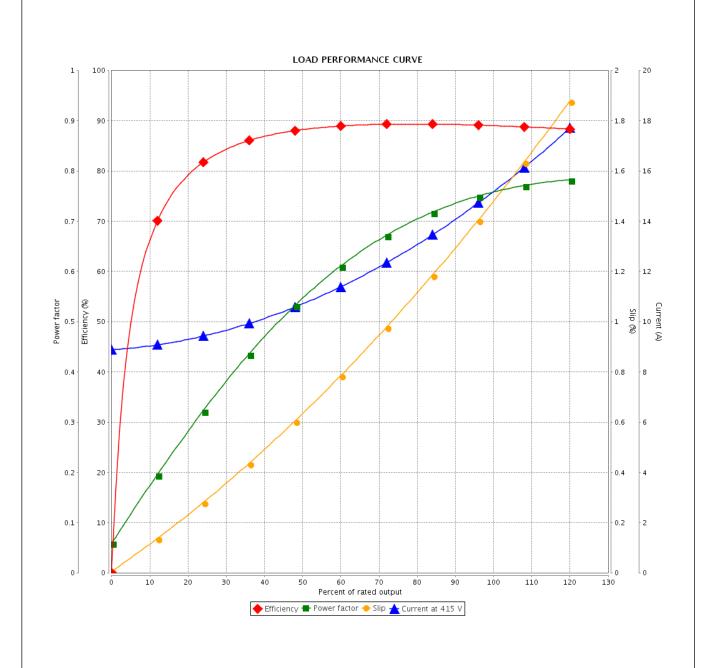
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40



Performance : 415 V 50 Hz 6P IE3						
Rated current	: 1	5.4 A	Moment o	f inertia (J)	: 4.80 sq.ft.lb	
LRC	: 7	.9	Duty cycle)	: Cont.(S1)	
Rated torque	: 5	3.3 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 3	60 %	Service fa	ctor	: 1.00	
Breakdown torqu	ıe : 3	80 %	Temperature rise		: 80 K	
Rated speed	: 9	85 rpm	Design		: B	
Rev.		Changes Summar	ту	Performed	Checked	Date
Performed by						
Checked by		1			Page	Revision
Date	11/04/2020	1			9 / 21	

Three Phase Induction Motor - Squirrel Cage

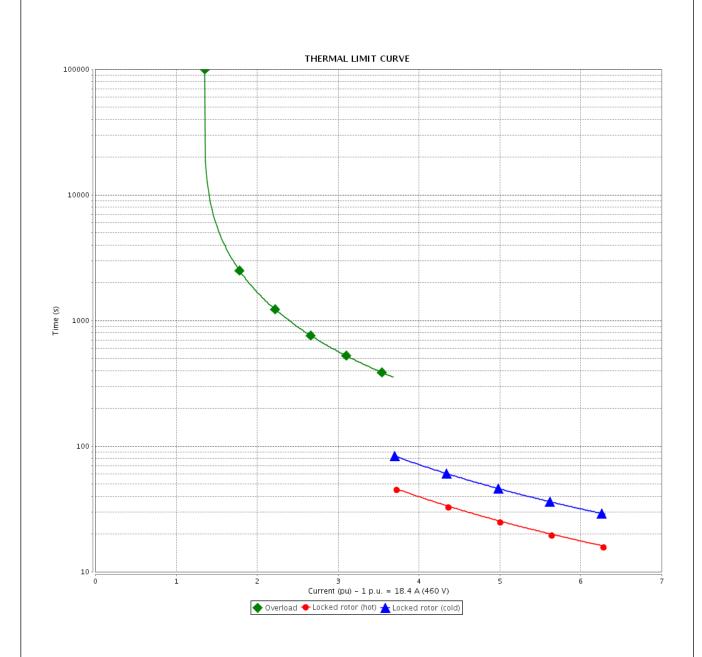


Customer		:				
Dec Letter		W40 ID D	•	Decit of soils	11105010	
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase	iium	Product code :	14485010	
				Catalog # :	01512OT3E2	84JP-W40
Performance		: 230/460 V 60 Hz 6P				
Rated current LRC		: 36.8/18.4 A : 6.3	Moment o	of inertia (J)	: 4.80 sq.ft.lb	
Rated torque		: 66.8 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torg	jue :	: 260 %	Service fa	ctor	: 1.25	
Breakdown torqu Rated speed		: 260 % : 1180 rpm	Temperati Design	ure rise	: 80 K : B	
			Doolgii		. 5	
Heating constant						
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
NEV.		Onanges Summary		renomieu	Checked	Dait
Performed by						
Checked by					Page	Revision
Date	11/04/2020				10 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			11 / 21	

Three Phase Induction Motor - Squirrel Cage

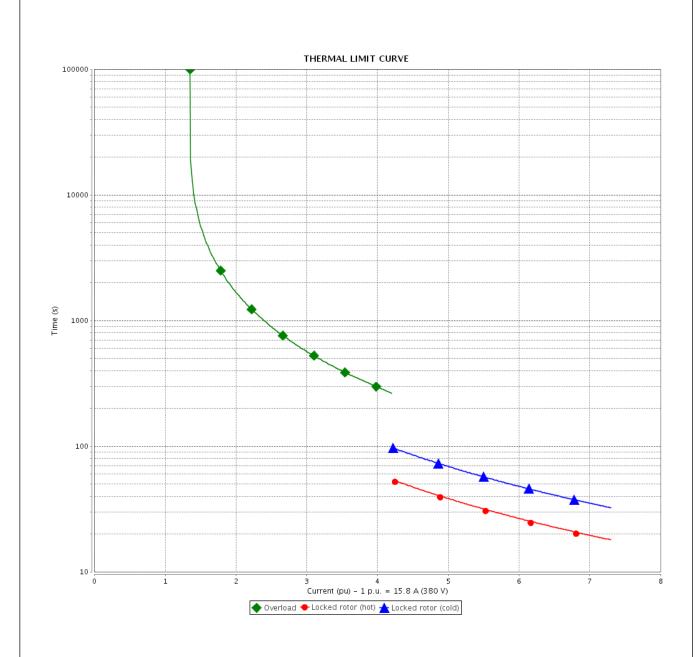


Customer		:				
Droduct line		: W40 JP Pump NEMA Prem	ium.	Droduot codo:	14495040	
Product line		Efficiency Three-Phase	lium	Product code :	14485010	
		•		Catalog # :	01512OT3E28	84JP-W40
Performance		200 V 50 H= 6D IF2				
Rated current		380 V 50 Hz 6P IE3 15.8 A	Moment o	of inertia (J)	: 4.80 sq.ft.lb	
LRC	:	7.3	Duty cycle	9	: Cont.(S1)	
Rated torque		53.6 ft.lb	Insulation		: F	
Locked rotor tord Breakdown torqu		290 % 320 %	Service fa Temperati		: 1.00 : 80 K	
Rated speed		980 rpm	Design		: B	
Heating constan	t					
Cooling constan						
Rev.		Changes Summary		Performed	Checked	Date
Performed by		_			_	5
Checked by	11/04/2020	_			Page 12 / 21	Revision
Date	⊤ 11/04/2020	The state of the s			17/71	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			13 / 21	

Three Phase Induction Motor - Squirrel Cage

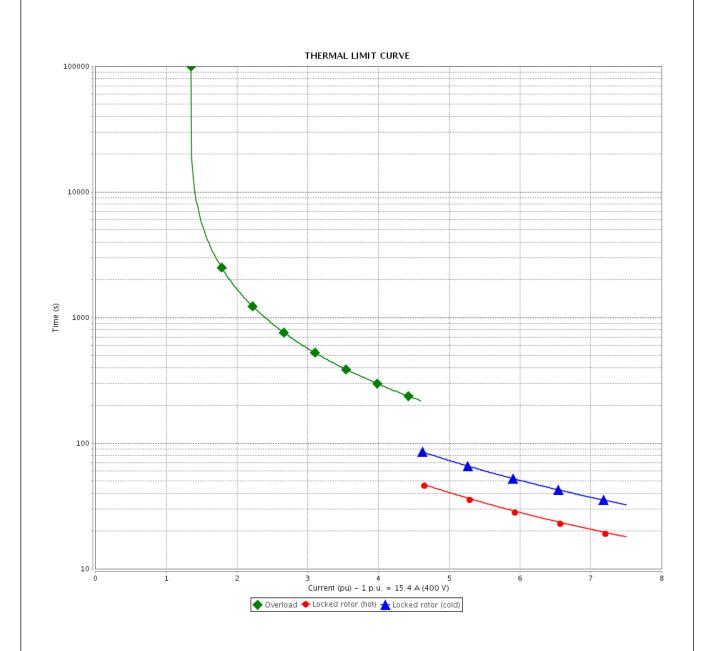


Customer		:				
Product line		: W40 JP Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14485010 01512OT3E28	84JP-W40
Performance		400 V 50 Hz 6P IE3				
Rated current LRC Rated torque	:	15.4 A 7.5 53.3 ft.lb	Duty cycle Insulation	class	: 4.80 sq.ft.lb : Cont.(S1) : F	
Locked rotor tord Breakdown torqu Rated speed	ue :	330 % 350 % 985 rpm	Service fa Temperatu Design		: 1.00 : 80 K : B	
Heating constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by					Paga	Revision
Checked by	11/04/2020				Page 14 / 21	Kevision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			15 / 21	

Three Phase Induction Motor - Squirrel Cage

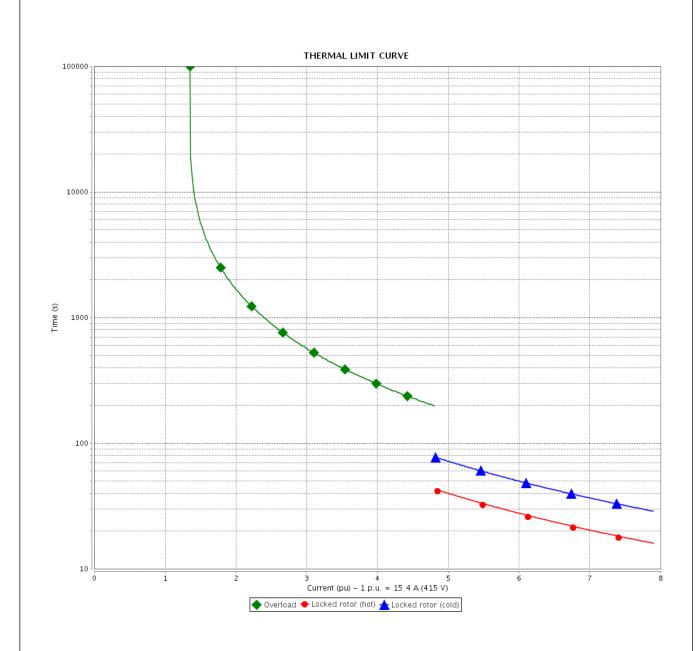


Customer	:					
Product line	: \	W40 JP Pump NEMA Prem	ium l	Product code :	14485010	
		fficiency Three-Phase	(Catalog # :	01512OT3E28	34JP-W40
Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	: 15	5.4 A	Moment of	finertia (J)	: 4.80 sq.ft.lb	
LRC Rated torque	: 7. · 50	9 3.3 ft.lb	Duty cycle Insulation		: Cont.(S1) : F	
Locked rotor torq	ue : 36	60 %	Service fac	ctor	: 1.00	
Breakdown torqu Rated speed		30 % 35 rpm	Temperatu Design	re rise	: 80 K : B	
					. –	
Heating constant Cooling constant						
Rev.		Changes Summary		Performed	Checked	Date
Performed by						5
Checked by					Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	11/04/2020			17 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

11/04/2020

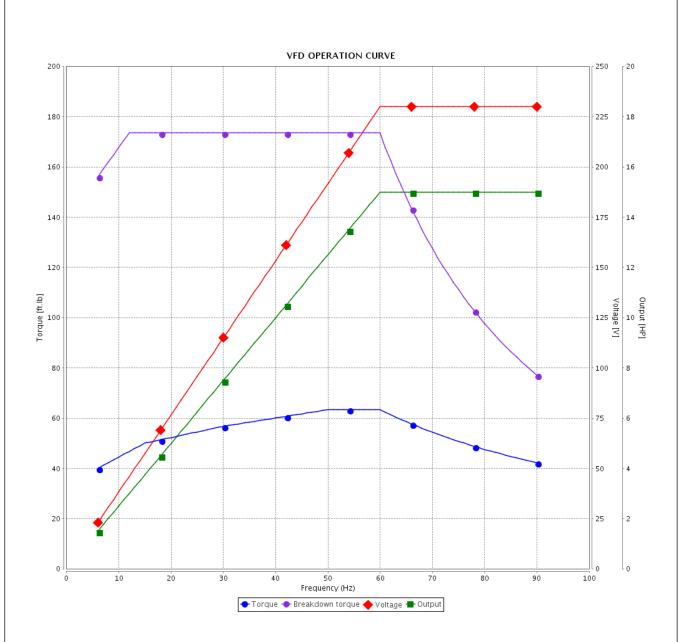
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40

18 / 21



Performance : 230/460 V 60 Hz 6P : 36.8/18.4 A Rated current Moment of inertia (J) : 4.80 sq.ft.lb **LRC** Duty cycle : 6.3 : Cont.(S1) Insulation class : 66.8 ft.lb : F Rated torque : 260 % Locked rotor torque Service factor : 1.25 Breakdown torque : 260 % 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



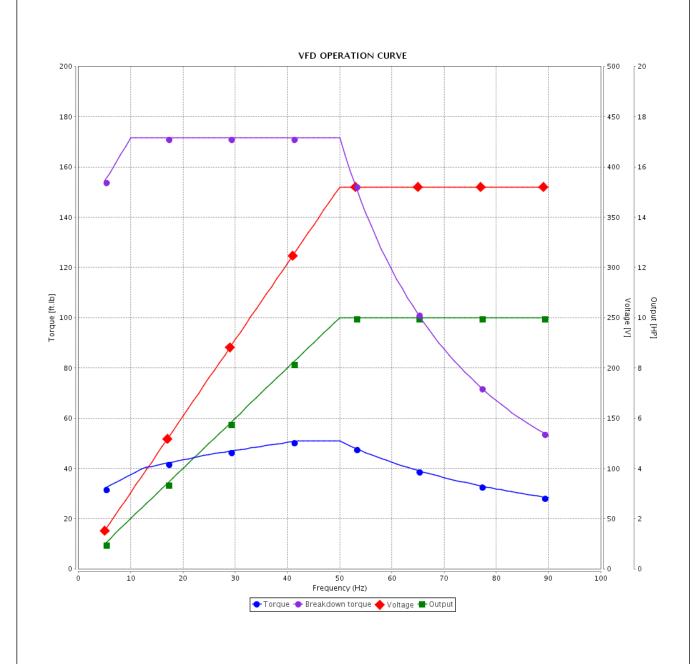
Customer

Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40



Performance	: 38	30 V 50 Hz 6P IE3	3			
Rated current : 1		5.8 A	Moment o	Moment of inertia (J)		
LRC	: 7.	3	Duty cycle	9	: Cont.(S1)	
Rated torque	: 50	3.6 ft.lb	Insulation	class	: F	
Locked rotor torqu	ue : 29	90 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 32	20 %	Temperati	Temperature rise		
Rated speed	: 98	30 rpm	Design		: B	
Rev.		Changes Summa	ary	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	11/04/2020	1			19 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

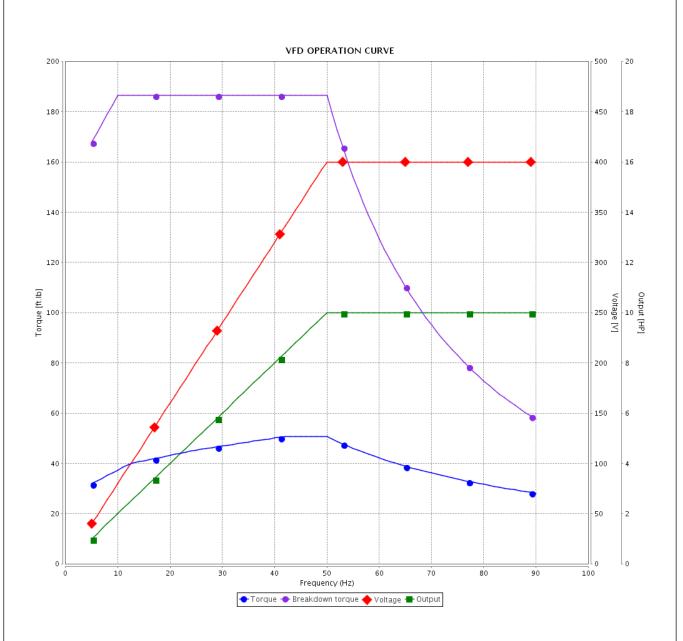
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40

20 / 21



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.4 A : 7.5 : 53.3 ft.lb e : 330 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

11/04/2020

Date

Three Phase Induction Motor - Squirrel Cage



Customer

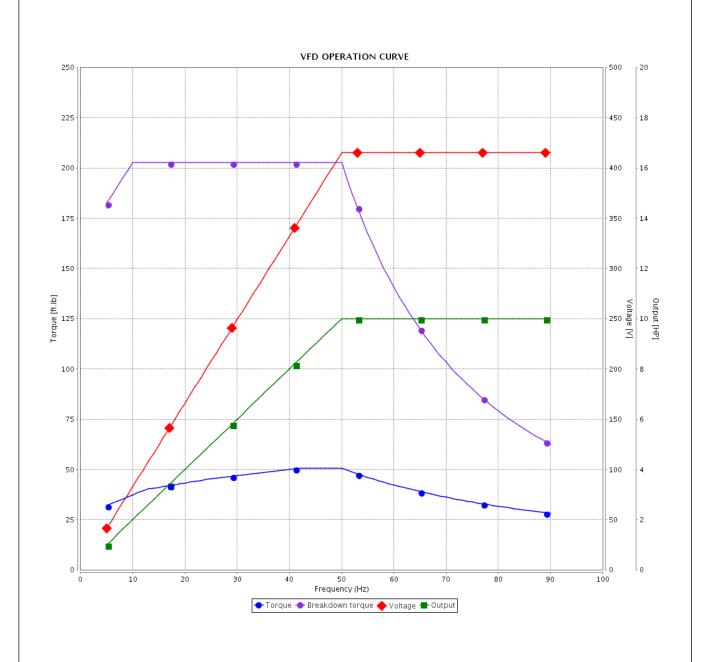
Product line : W40 JP Pump NEMA Premium

Efficiency Three-Phase

Product code: 14485010

Catalog #: 01512OT3E284JP-W40

21 / 21



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 15.4 A : 7.9 : 53.3 ft.lb : 360 % : 380 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 4.80 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

11/04/2020

Date