DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14023477

Catalog #: 07518OT3E365JM-W40

Frame : 364/5JM

Insulation class : F

Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C

Altitude : 1000 m.a.s.l.
Protection degree : IP23

Cooling method : IC01 - ODP

Mounting : F-1

Rotation¹ : Both (CW and CCW)

Starting method : Direct On Line Approx. weight³ : 792 lb

Moment of inertia (J) : 16.8 sq.ft.lb

Design		: B			·
Output [HP]		75	60	60	60
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		171/85.5	84.4	82.1	80.1
L. R. Amperes [A]		1163/581	599	591	609
LRC [A]		6.8x(Code G)	7.1x(Code H)	7.2x(Code H)	7.6x(Code J)
No load current [A]]	61.0/30.5	28.5	33.7	36.1
Rated speed [RPN	1]	1780	1480	1482	1484
Slip [%]		1.11	1.33	1.20	1.07
Rated torque [ft.lb]		221	213	213	212
Locked rotor torque [%]		220	200	229	250
Breakdown torque [%]		260	240	260	280
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)	23s (cold) 13s (hot)
Noise level ²		69.0 dB(A)			
	25%	94.4	93.7	93.7	93.7
Efficiency (%)	50%	94.5	93.8	93.8	93.8
Efficiency (70)	75%	95.0	94.2	94.2	94.2
100%		95.0	94.2	94.2	94.2
	25%	0.48	0.48	0.43	0.40
Power Factor	50%	0.73	0.73	0.69	0.66
I OWELL ACTOL	75%	0.82	0.82	0.80	0.77
	100%	0.85	0.86	0.84	0.83

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing Seal

Bearing type : 6314 C3 6212 Z C3 Max. traction : 1641 lb Sealing : Without Without Max. compression : 2433 lb

Bearing Seal

Lubrication interval:20000 h20000 hLubricant amount:27 g13 gLubricant type:Mobil Polyrex EM

Notes

USABLE @208V 189A SF 1.15 SFA 217A

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 / 21	

Three Phase Induction Motor - Squirrel Cage



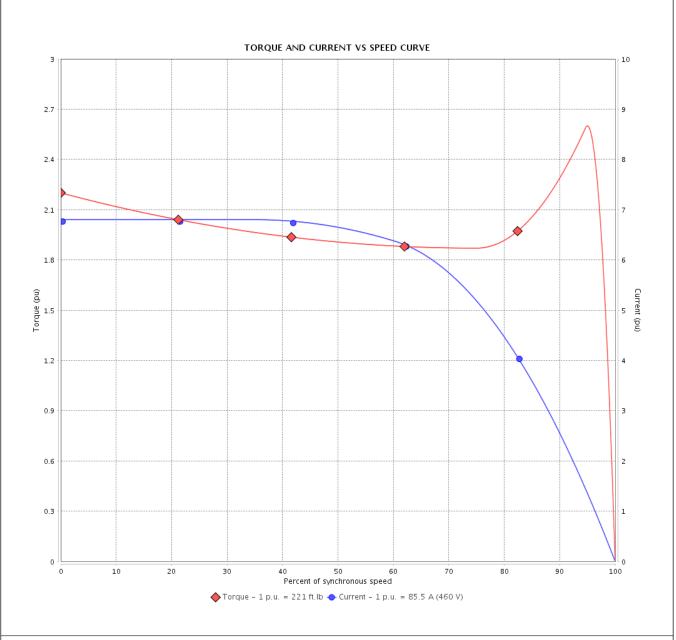
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14023477

Catalog #: 07518OT3E365JM-W40



Performance : 230/460 V 60 Hz 4P Rated current : 171/85.5 A Moment of inertia (J) : 16.8 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B

Locked rotor time : 25s (cold) 14s (hot)

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			2 / 21	

Three Phase Induction Motor - Squirrel Cage



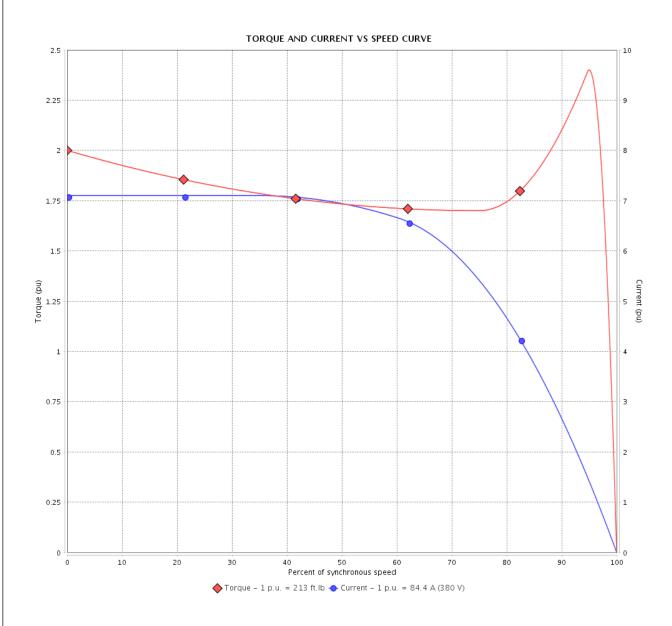
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14023477

Catalog #: 07518OT3E365JM-W40



Performance	: 380 V 50 Hz 4P IE3		
Rated current	: 84.4 A	Moment of inertia (J)	: 16.8 sq.ft.lb
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 213 ft.lb	Insulation class	:F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B
Locked rotor time	· 23s (cold) 13s (hot)		

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			3 / 21	

Three Phase Induction Motor - Squirrel Cage



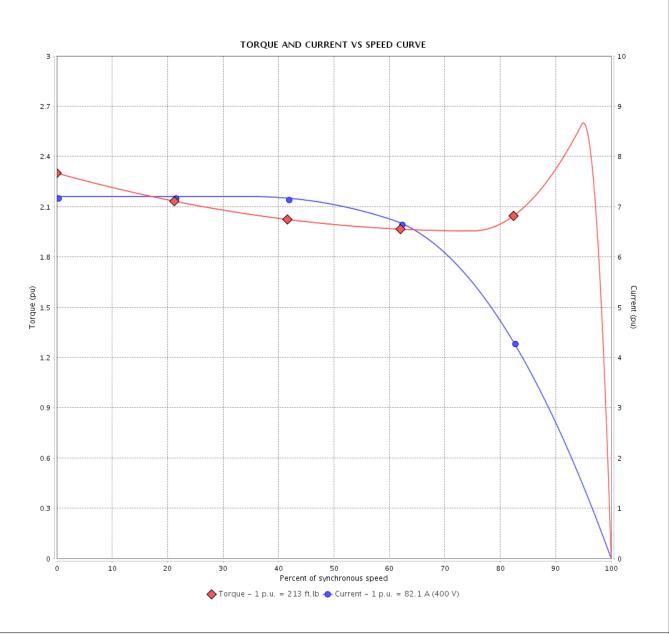
Customer :

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14023477

Catalog #: 07518OT3E365JM-W40



Performance : 400 V 50 Hz 4P IE3 Rated current : 82.1 A Moment of inertia (J) : 16.8 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 213 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1482 rpm Design : B

Locked rotor time : 23s (cold) 13s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			4 / 21	



Three Phase Induction Motor - Squirrel Cage Customer Product line : W40 JM Pump NEMA Premium Product code: 14023477 Efficiency Three-Phase Catalog #: 07518OT3E365JM-W40 TORQUE AND CURRENT VS SPEED CURVE 2.7 2.1 1.8 Current Torque (pu) 1.2 0.6 0.3

Performance : 415 V 50 Hz 4P IE3 Rated current : 80.1 A Moment of inertia (J) : 16.8 sq.ft.lb **LRC** : 7.6 Duty cycle : Cont.(S1) Insulation class Rated torque : 212 ft.lb : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1484 rpm Design : B

Percent of synchronous speed ◆ Torque - 1 p.u. = 212 ft.lb ◆ Current - 1 p.u. = 80.1 A (415 V)

Locked rotor time : 23s (cold) 13s (hot)

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			5 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

13/04/2022

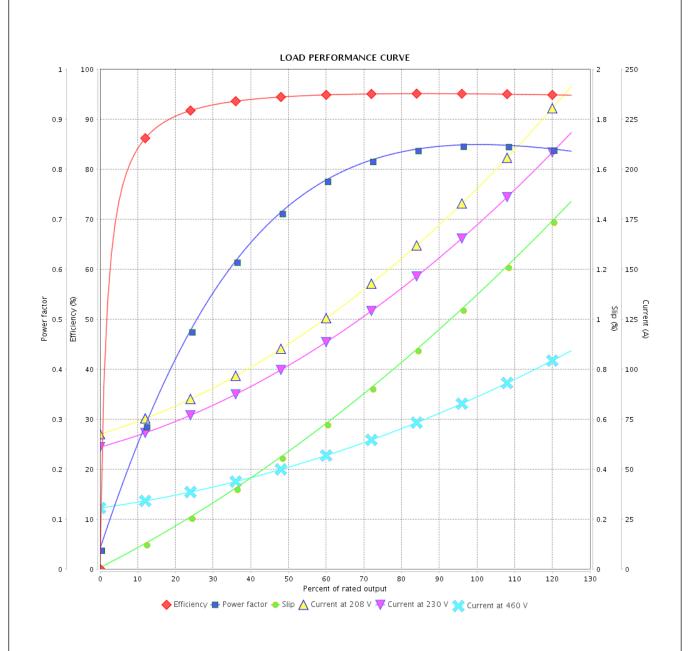
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14023477

Catalog #: 07518OT3E365JM-W40

6/21



Performance : 230/460 V 60 Hz 4P : 171/85.5 A Rated current Moment of inertia (J) : 16.8 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

Three Phase Induction Motor - Squirrel Cage



Customer

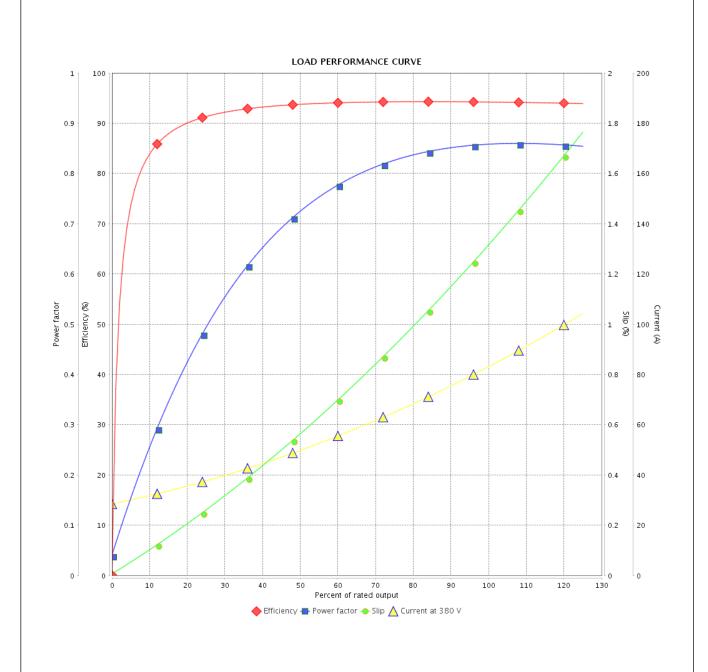
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14023477

Catalog #: 07518OT3E365JM-W40

7/21



Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 84.4 A	Moment of inertia (J)		: 16.8 sq.ft.lb	
LRC Rated torque	: 7.1 : 213 ft.lb	Duty cycle Insulation class Service factor Temperature rise Design		: Cont.(S1) : F	
Locked rotor torque	: 200 %			: 1.00	
Breakdown torque Rated speed	: 240 % : 1480 rpm			: 80 K : B	
Rev.	Changes Summary	1	Performed	Checked	Date
Performed by					
Checked by				Page	Revision

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



Customer :

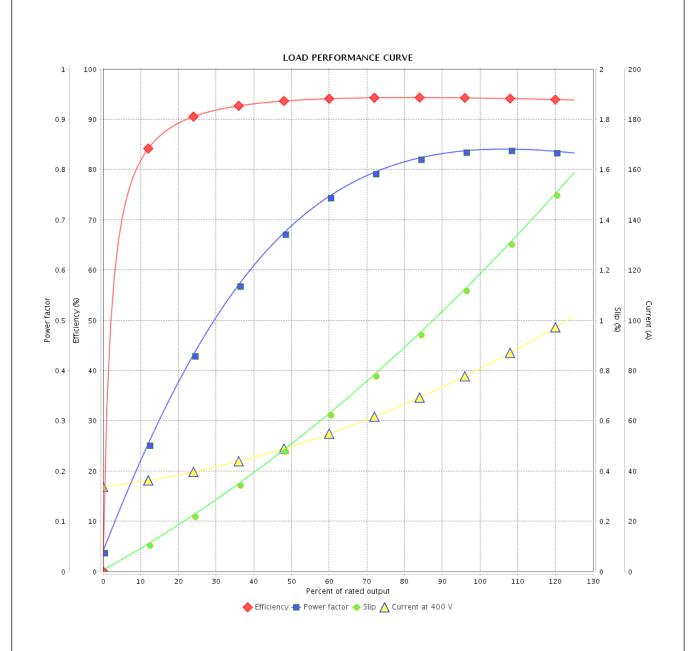
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Efficiency Three-Phase

Product code: 14023477

Catalog #: 07518OT3E365JM-W40

8 / 21



Performance	: 400 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 82.1 A : 7.2 : 213 ft.lb : 229 % : 260 % : 1482 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 7.2 Duty cycle : Cont.(S1) : 213 ft.lb Insulation class : F : 229 % Service factor : 1.00 : 260 % Temperature rise : 80 K		
Rev.	Changes Summary		Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	

13/04/2022

Date

Three Phase Induction Motor - Squirrel Cage



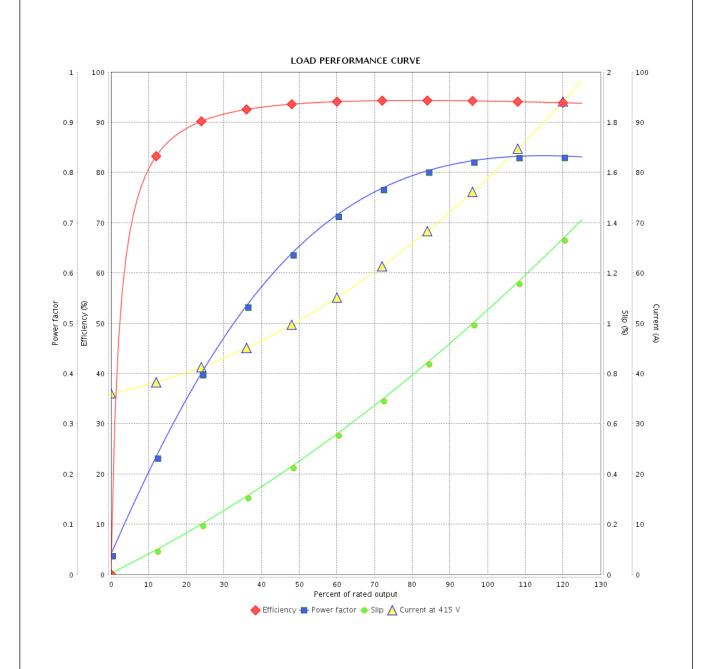
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14023477

Catalog #: 07518OT3E365JM-W40



Performance : 415 V 50 Hz 4P IE3						
Rated current	: 8	0.1 A	Moment o	f inertia (J)	: 16.8 sq.ft.lb	
LRC	: 7	. .6	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	12 ft.lb	Insulation	class	: F	
Locked rotor tord	que : 2	250 %	Service fa	ctor	: 1.00	
Breakdown torqu	ue : 2	80 %	10		: 80 K	
Rated speed	: 1	484 rpm			: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/04/2022				9 / 21	

Three Phase Induction Motor - Squirrel Cage

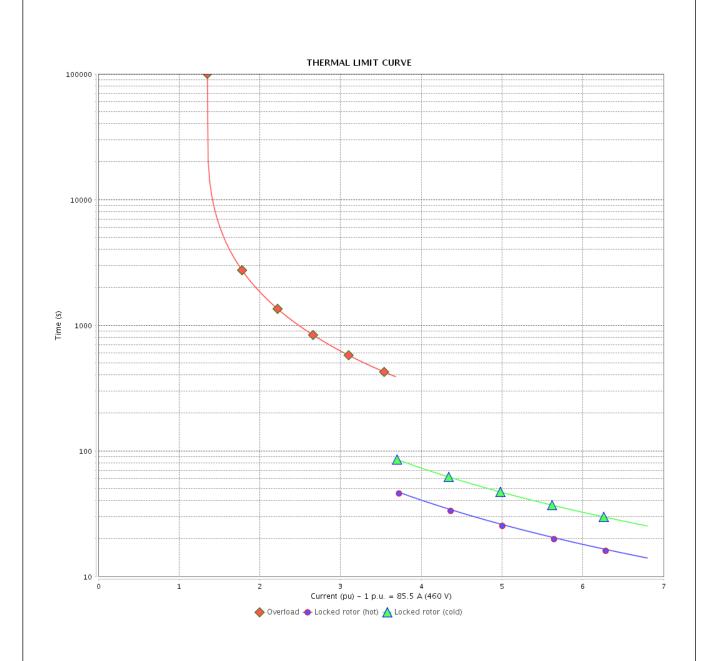


Customer	:					
Product line	: E	W40 JM Pump NEMA Prem fficiency Three-Phase		Product code : Catalog # :	14023477 07518OT3E36	65JM-W40
Performance	. 2	30/460 V 60 Hz 4P				
Rated current		71/85.5 A	Moment of	f inertia (J)	: 16.8 sq.ft.lb	
LRC	: 6	.8	Duty cycle		: Cont.(S1)	
Rated torque Locked rotor tord		21 ft.lb 20 %	Insulation Service fac		: F : 1.25	
Breakdown torqu	ie : 2	60 %	Temperatu		: 80 K	
Rated speed		780 rpm	Design		: B	
Heating constan						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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Performed by						
Checked by		1			Page	Revision
Data	12/04/2022	1			10 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			11 / 21	

Three Phase Induction Motor - Squirrel Cage

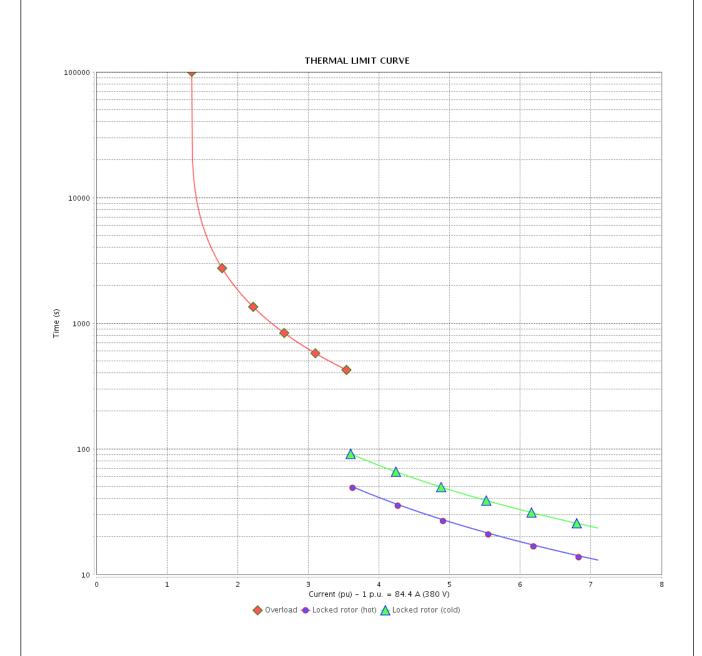


Customer	:				_	
Product line	: \ E1	N40 JM Pump NEMA Prem fficiency Three-Phase		Product code :	14023477 07518OT3E3	65JM-W40
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 8 ⁴ : 7. : 2 ⁷ ue : 20 e : 2 ⁴ : 1 ⁴	30 V 50 Hz 4P IE3 4.4 A 1 13 ft.lb 00 % 40 % 480 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 16.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by	40/04/2222				Page	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			13 / 21	

Three Phase Induction Motor - Squirrel Cage

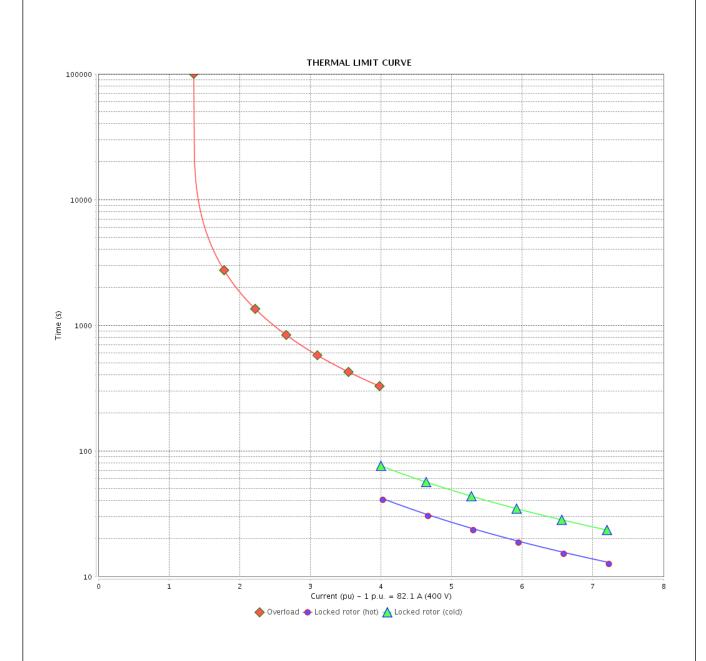


Customer		:				
Product line		: W40 JM Pump NEMA Pren Efficiency Three-Phase		Product code : Catalog # :	14023477 07518OT3E36	65.JM-W40
Performance		: 400 V 50 Hz 4P IE3				
Rated current LRC	:	: 82.1 A : 7.2	Duty cycle		: 16.8 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor tord		: 213 ft.lb : 229 %	Insulation Service fa		: F : 1.00	
Breakdown torqu		: 260 %	Temperati		: 80 K	
Rated speed		: 1482 rpm	Design		: B	
Heating constant						
Cooling constant	t	Changes Summary		Performed	Checked	Date
		Thanges Summary		1 Shormod	J.1001.04	Date
Performed by				1		
Checked by					Page	Revision
Date	13/04/2022				14 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			15 / 21	

Three Phase Induction Motor - Squirrel Cage

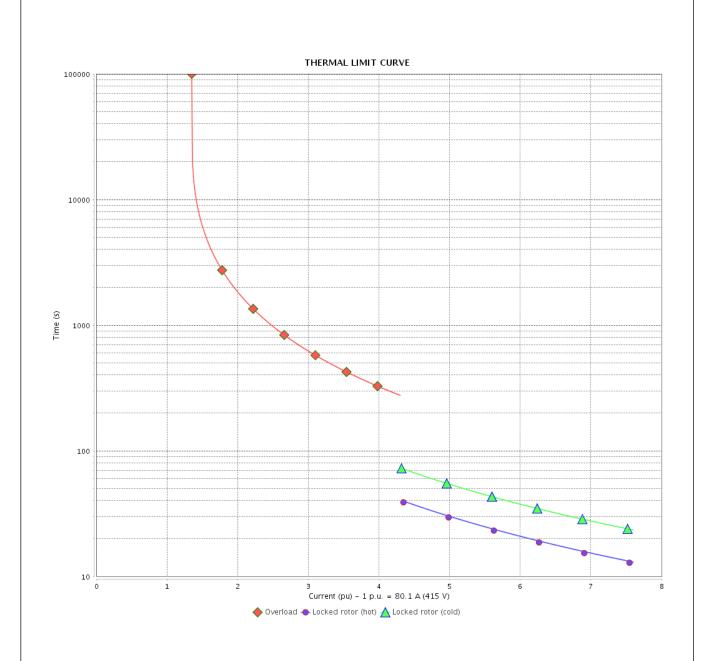


Customer		:				
Product line		: W40 JM Pump NEMA Prem Efficiency Three-Phase		Product code : Catalog # :	14023477 075180T3E36	65JM-W40
				Catalog #:	0/518013E36	DSJINI-VV4U
Performance		: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor toro Breakdown torqu Rated speed Heating constant	que	: 80.1 A : 7.6 : 212 ft.lb : 250 % : 280 % : 1484 rpm	Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 16.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Cooling constant Rev.		Changes Summary		Performed	Checked	Date
Performed by Checked by	13/04/2022				Page 16 / 21	Revision

Three Phase Induction Motor - Squirrel Cage



Customer



Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/04/2022			17 / 21	

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

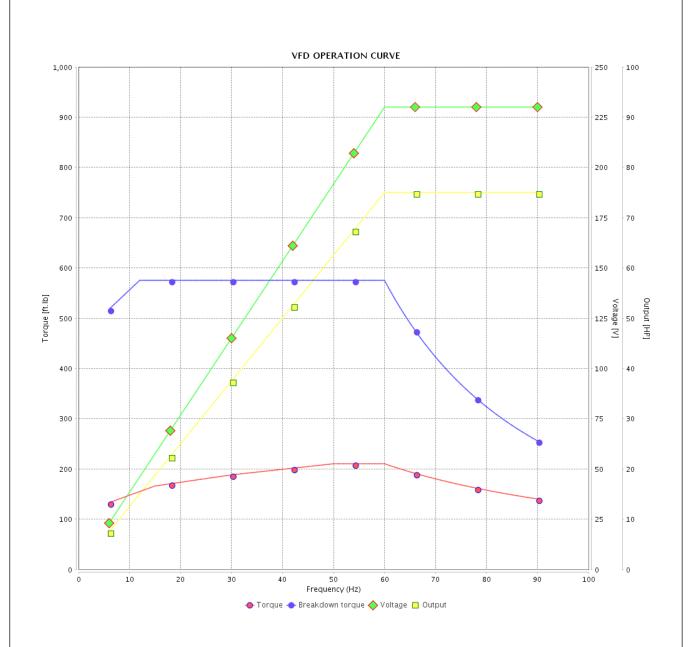
13/04/2022

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14023477

Catalog #: 07518OT3E365JM-W40



Performance : 230/460 V 60 Hz 4P : 171/85.5 A Rated current Moment of inertia (J) : 16.8 sq.ft.lb **LRC** : 6.8 Duty cycle : Cont.(S1) Insulation class Rated torque : 221 ft.lb : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1780 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

18 / 21

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

13/04/2022

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

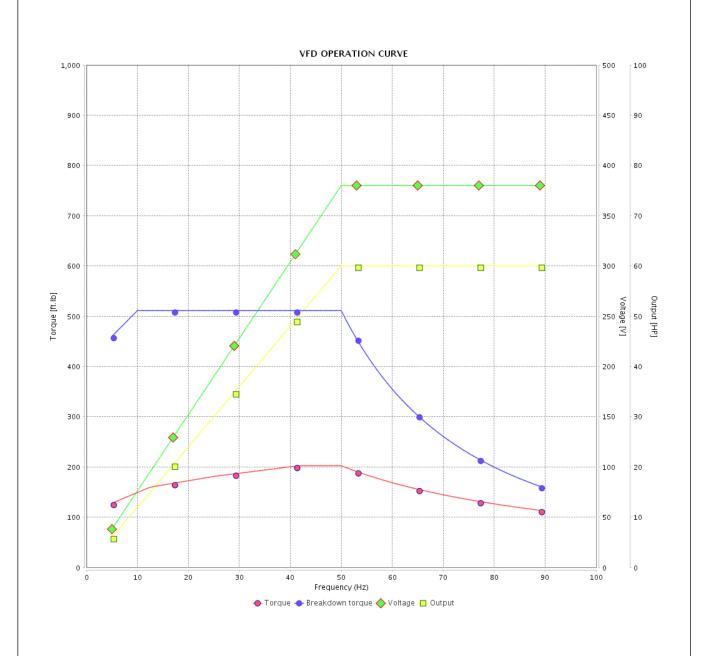
Product code: 14023477

Catalog #: 07518OT3E365JM-W40

Page

19/21

Revision



Performance		: 380 V 50 Hz 4P IE	3			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 84.4 A : 7.1 : 213 ft.lb : 200 % : 240 % : 1480 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 16.8 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.		Changes Summa	ary	Performed	Checked	Date
Performed by						

Three Phase Induction Motor - Squirrel Cage



Customer :

Date

13/04/2022

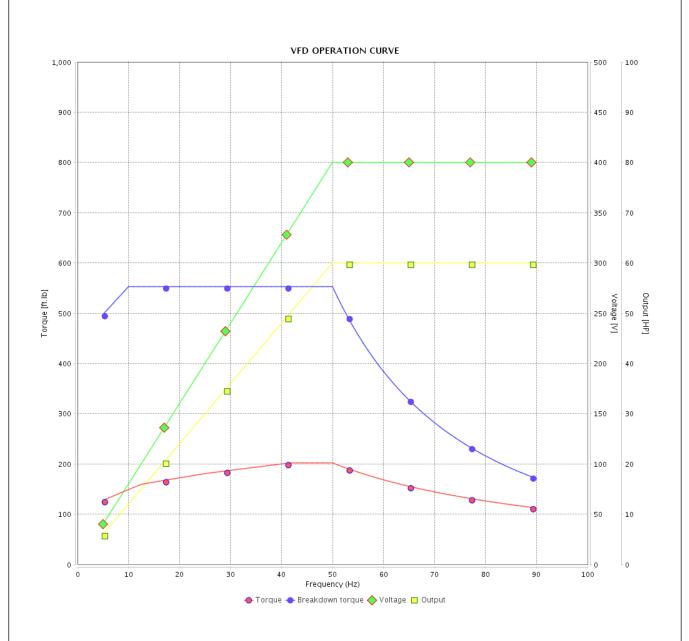
Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14023477

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20 / 21



Performance : 400 V 50 Hz 4P IE3 Rated current : 82.1 A Moment of inertia (J) : 16.8 sq.ft.lb **LRC** : 7.2 Duty cycle : Cont.(S1) Insulation class Rated torque : 213 ft.lb : F Locked rotor torque : 229 % Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1482 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Page Checked by Revision

Three Phase Induction Motor - Squirrel Cage



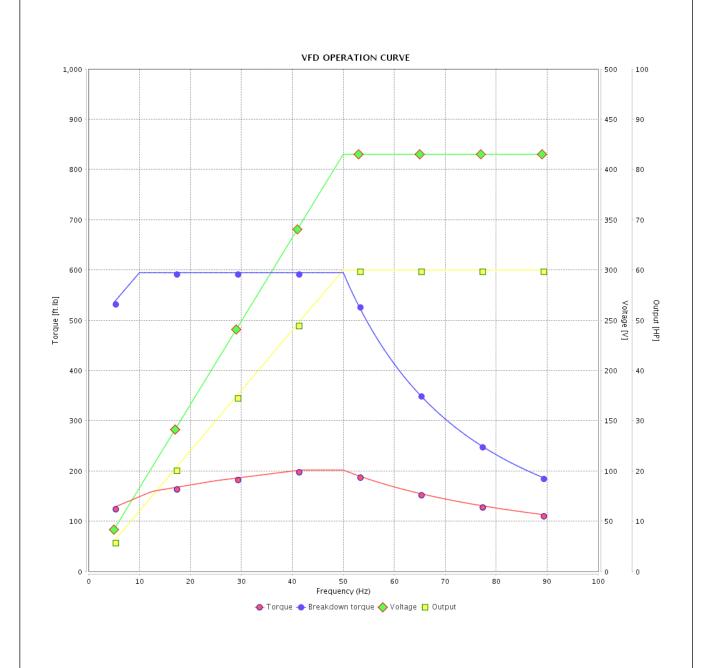
Customer

Product line : W40 JM Pump NEMA Premium

Efficiency Three-Phase

Product code: 14023477

Catalog #: 07518OT3E365JM-W40



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 80.1 A		Moment o	Moment of inertia (J)		
LRC	: 7	.6	Duty cycle)	: Cont.(S1)	
Rated torque	: 2	12 ft.lb			: F	
Locked rotor torqu	ue : 2	50 %	Service fa	ctor	: 1.00	
Breakdown torque	e : 2	80 %	Temperature rise		: 80 K	
Rated speed	: 1	484 rpm	Design		: B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by		-			Page	Revision
Date	13/04/2022	1			21 / 21	

