



Product Information Packet

EM4316T

75HP,1800RPM,60HZ,365T,TEFC

Part Detail							
Revision:	-	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	A36WG4076-DES	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:		Layout:	A36C-0000000050	Poles:	04	Created Date:	08-12-2020
Base:		Eff. Date:	08-12-2020	Leads:	3#4,6#6		

Specs			
Catalog Number:	EM4316T	Feedback Device:	NO FEEDBACK
Product Complexity Level:	Core	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	365T	Inverter Code:	Inverter Ready
Frame Material:	Iron	IP Rating:	NONE
Output @ Frequency:	75.000 HP @ 60 HZ	KVA Code:	G
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Lifting Lugs:	No Lifting Lugs
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 4 AWG
	460.0 V @ 60 HZ	Motor Type:	A3670M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	86
Agency Approvals:	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Base Indicator:	Rigid	Shaft Ground Indicator:	No Shaft Grounding
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Rotation:	Reversible
Current @ Voltage:	187.000 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA

Duty Rating:	CONT	Starting Method:	Direct on line
Enclosure Modification:	Severe Duty Features	Thermal Device - Bearing:	None
		Thermal Device - Winding:	None

Nameplate NP3979LUA

CAT #		EM4316T		SER				CC		010A																	
SPEC		A36C-0000000050		RATING		40C AMB-CONT																					
HZ	VOLTS		AMPS		RPM		HP		CODE		SF		DES		PF		NEMA NOM. EFF										
60	230/460		172/86		1780		75		G		1.15		B		86		95.4										
PH	3	CL	F	MAX CORR KVAR		15.80		USABLE AT 208V		189		A															
BRG	DE		6313		ODE		6313		ENCL		TEFC		FR		365T		IP54										
GREASE		POLYREX EM						MTR WT		908		LBS															
USABLE AT		50HZ 60HP 190/380V 168/84A						SF1.0																			
INVERTER DUTY		CT		15-60		HZ		4:1		VT		3-60		HZ		20:1		CHP		60-90		HZ		1.5:1		1.0 SF VPWM	
MAX RPM		2700																									

Parts List		
Part Number	Description	Quantity
A36WS4076F00	A36WG4076 WOUND STATOR CLASS F	1.000 EA
033050001C	IBOLT - 360	1.000 EA
085918051A	FRME 360 085918020WCB KB	1.000 EA
403783000AE	PIN 3/8"X2"L	1.000 EA
004824018L	RTV 732 CLEAR 10.1 OZTUBE	0.002 LB
A36WG3963-ROTOR	ROTOR CONFIG	1.000 EA
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 EA
034180034HA	KEY 5/8X5/8X4-1/4 L	1.000 EA
A36SH1000A00	365T TEFC 6313-6313 CLI SHAFT	1.000 EA
603298012A	CAP,LOCKING,313 BRG - 603298011WCA	1.000 EA
603298012B	CAP,NON-LOCKING,313 BRG 603298011WCA	1.000 EA
416821003FP	6313 C3 - - STL ABEC1 S SLUSH	1.000 EA
416821003FP	6313 C3 - - STL ABEC1 S SLUSH	1.000 EA
085922073B	BRKT 360 085922072WCC KB	1.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
415045002E	SLGR	1.000 EA
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 EA
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 EA
032018012DK	HHCS 1/2-13X1-1/2 PLTD. 032018012DR	4.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
035000001G	GREASE RELIEF FITTING, ALEMITE 317400	1.000 EA
085922073B	BRKT 360 085922072WCC KB	1.000 EA
415045002E	SLGR	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
034530052AB	P/NIP 1/8X6-1/2 GALV.	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
032018024CK	HHCS 3/8-16X3 PLTD.	3.000 EA
032018008AK	HHCS 1/4-20X1 PLATED	4.000 EA
078559034A	+F/C A 078559001A - 360	1.000 EA
406099000A	PLUG - FAN COVER 320-440	1.000 EA
415072001B	CLAMP	1.000 EA
702676001C	FAN 360	1.000 EA
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 EA
415000103D	T/LUG #4AWG-1/0AWG W/HOLE FOR .250 BOLT	1.000 EA
077176000L	C/BOX, PAINTED 440	1.000 EA
077176001A	CBOXC, PAINTED 360-400	1.000 EA
043292000AJ	GASK 320-400	1.000 EA
402731001A	GASK 360-440	1.000 EA
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 EA
MG1025Y17	WILKOFASST, 789.701, SUPER E PEARL GOLD	0.250 GA
004824003CBY	WILKO PAINT 060.02 - ACTIVATOR	0.063 GA

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482403003BEF	RUST VETO 342	0.002 GA
LC0181	CONNECTION LABEL	1.000 EA
000692000FP	NP, WARNING LIFT INSTRUCTIONS	1.000 EA
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 EA
000692000VD	LABEL WARNING	1.000 EA
MN416	TAG-INSTAL-MAINT w/wire. (1200/bx) 3/19	1.000 EA
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 EA
032509020C	CARRIAGE BOLT - 360	3.000 EA
HW1000A32	5/16 FL WASHER WIDE,ID=.344,OD=1.125	3.000 EA
NP3979LUA	SS SUPER-E UR CSA-C-US-EEV NEMA PREM CC	1.000 EA
410700004F	WSHR	1.000 EA
004824015A	GREASE POLYREX EM	0.544 LB

AC Induction Motor Performance Data

Record # 71910

Typical performance - not guaranteed values

Winding: A36WG4076-R001			Type: A3670M	Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		75	Full Load Torque		220.4 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		172/86	Breakdown Torque		618 LB-FT		
R.P.M.		1780	Pull-up Torque		341 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		434 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		545 A
Service Factor (S.F.)		1.15	No-load Current		27.5 A		
NEMA Nom. Eff.		95.4	Power Factor	86	Line-line Res. @ 25°C		0.081965 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		60°C	
S.F. Amps				Temp. Rise @ S.F. Load		75°C	
				Locked-rotor Power Factor		31.8	

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	55	76	83	86	86	86	86
Efficiency	93.8	95.6	95.8	95.4	94.8	93.9	95
Speed	1796.6	1791.5	1787.3	1782.2	1776.4	1769.9	1779
Line amperes	33.9	48.2	66	85.5	107	131	98.4

Performance Graph at 460V, 60Hz, 75.0HP Typical performance - Not guaranteed values









