



Customer information packet

EJMM3546T

1HP, 1760RPM, 3PH, 60HZ, 143JM, 3520M, TEFC, F1

PFC EQUIPMENT

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	143JM
Frame Material	Steel
Frequency	60.00 Hz
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA CSA EEV UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.500 A @ 460.0 V 3.000 A @ 230.0 V 3.100 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part detail

Revision	R
Type	AC
Mech. spec.	35M019
Base	
Status	PRD/A
Elec. spec.	35WGM492
Layout	35LYM019
Eff. date	06-18-2019
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	08-03-2010

High Voltage Full Load Amps	1.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.43 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.000 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2	None
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Nameplate

NP3441LUA									
CAT.NO.	EJMM3546T								
SPEC	35M019M492G1								
HP	1								
VOLTS	230/460								
AMPS	3/1.5								
RPM	1760								
FRAME	143JM		HZ	60		PH	3		
SF	1.15	CODE	L	DES	B	CLASS	F		
NEMA NOM. EFF	85.5	PF	71						
RATING	40C AMB-CONT								
CC	010A		USABLE AT 208V				3.1		
ENCL	TEFC	SER							
DE	6206		ODE	6203					
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	50Hz 1HP 190/380V 3.6/1.8A						SF1.0		

Parts list

Part number	Description	Quantity
SA200819	SA 35M019M492G1	1.000 ea
RA188130	RA 35M019M492G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122G00	MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,R	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3401T05	FACE ENCL 206 BRG W/GRS, RELIEF & TGHSLV	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A86	IEC FH W/GRSR, NO DIMPLES W/PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
HA1005A02	SLINGER, OD 2.00, ID 1.14, 206 BRG,	1.000 ea
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 lb
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 ga
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP3441LUA	ALUM SUPER-E VPWM INV READY UL CSA-EEV C	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A06	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 1/21	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data

Record # 53095

Typical performance - not guaranteed values

Winding: 35WGM492-R050			Type: 3520M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		1	Full Load Torque		2.99 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		3/1.5	Breakdown Torque		13.5 LB-FT			
R.P.M.		1760	Pull-up Torque		8.25 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		8.52 LB-FT		
NEMA Design Code		B	KVA Code	L	Starting Current		12.4 A	
Service Factor (S.F.)		1.15		No-load Current		1.07 A		
NEMA Nom. Eff.		85.5	Power Factor		71	Line-line Res. @ 25°C		15 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		36°C		
S.F. Amps				Temp. Rise @ S.F. Load		42°C		
				Locked-rotor Power Factor		53.8		
				Rotor inertia		0.118 LB-FT2		

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	46	60	69	75	79	75
Efficiency	74.2	82.9	85.4	85.8	85.4	84.5	85.4
Speed	1790	1781	1771	1760	1749	1736	1754
Line amperes	1.11	1.24	1.39	1.59	1.83	2.11	1.69

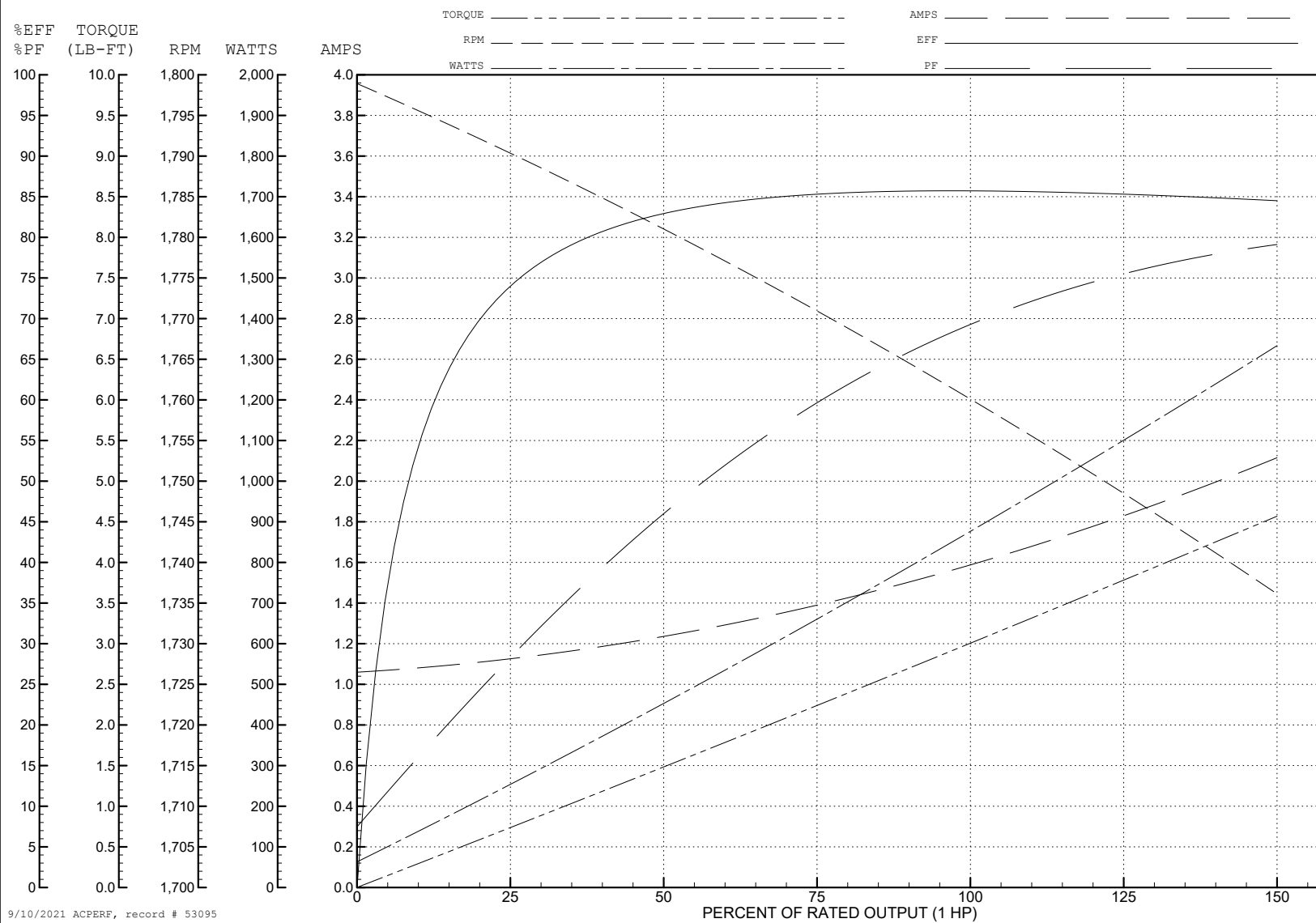
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WINDING # 35WGM492

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1760 RPM 460 V 3520M

TORQUES (LB-FT): PO=13.5 PU=8.25 LR=8.52 LRA=12.4



AC Induction Motor Performance Data

Record # 57707

Typical performance - not guaranteed values

Winding: 35WGM492-R050			Type: 3520M		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		2.99 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		3/1.5	Breakdown Torque		13.5 LB-FT		
R.P.M.		1760	Pull-up Torque		8.25 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		8.52 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		24.8 A
Service Factor (S.F.)		1.15	No-load Current		2.14 A		
NEMA Nom. Eff.		85.5	Power Factor	71	Line-line Res. @ 25°C		3.75 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		36°C
S.F. Amps					Temp. Rise @ S.F. Load		42°C
					Locked-rotor Power Factor		53.8
					Rotor inertia		0.118 LB-FT2

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	46	60	69	75	79	74
Efficiency	74.2	82.9	85.4	85.8	85.4	84.5	85.6
Speed	1790	1781	1771	1760	1749	1736	1754
Line amperes	2.22	2.48	2.78	3.18	3.66	4.22	1.69

ABB Motors and Mechanical Inc.

WINDING # 35WGM492

Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1760 RPM 230 V 3520M

TORQUES (LB-FT): PO=13.5 PU=8.25 LR=8.52 LRA=24.8

