



Product Information Packet

EHFM3218T

5HP,1750RPM,3PH,60HZ,184T,3640M,OPSB,F2

Part Detail							
Revision:	R	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	36WGS270	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	36L731	Layout:	36LYL731	Poles:	04	Created Date:	08-05-2010
Base:	RG	Eff. Date:	04-08-2019	Leads:	9#16		

Specs			
Catalog Number:	EHFM3218T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	184T	KVA Code:	J
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	5.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 16 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3640M
XP Division:	Not Applicable	Mounting Arrangement:	F2
Agency Approvals:	CSA	Power Factor:	80
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	13.200 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding

	14.000 A @ 208.0 V	Shaft Rotation:	Reversible
	6.600 A @ 460.0 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
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP2094E06B03

CAT.NO.	EHFM3218T															
SPEC.	36L731S270G1															
HP	5															
VOLTS	230/460															
AMPS	13.2/6.6															
RPM	1750															
FRAME	184T				HZ				60		PH		3			
SER.F.	1.15			CODE		J		DES		B		CL		F		
NEMA-NOM-EFF	89.5				PF		80									
RATING	40C AMB-CONT															
CC	010A				USABLE AT 208V										14	
DE	6206				ODE		6205									
AUTO	N		MANUAL		N		NONE		Y							
ENCL	OPSB				SN											
BLANK																

Parts List		
Part Number	Description	Quantity
SA200980	SA 36L731S270G1	1.000 EA
RA188285	RA 36L731S270G1	1.000 EA
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
36EP3204D00	MASTER ODE,205 BRG,GRSR,RLF	1.000 EA
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
36EP3205A00	MASTER DE,206 BRG,1.197SH,GRSR,RLF,AEGIS	1.000 EA
91XN0540J08	SCREW, 5-40 X 1/2", FHC, AS	2.000 EA
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 EA
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
HA6362ZP	LIFTING LUG FOR 36 FRAME MOTORS.	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.022 GA
HA3101A40	THRUBOLT 1/4-20 X 12.687	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
36AD2004A01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA	2.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 53360

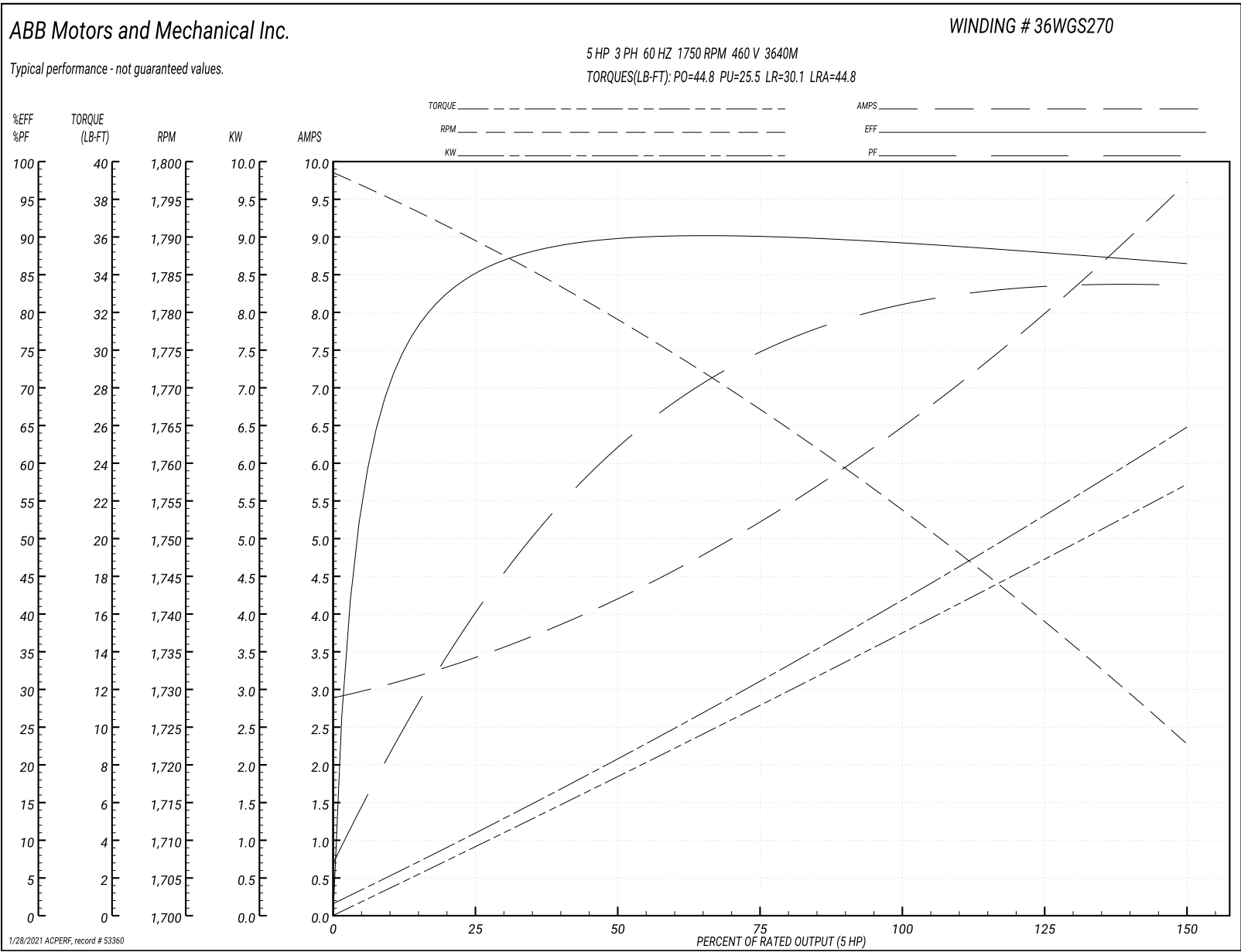
Typical performance - not guaranteed values

Winding: 36WGS270-R004				Type: 3640M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5		Full Load Torque		15.05 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		13.2/6.6		Breakdown Torque		44.8 LB-FT		
R.P.M.		1750		Pull-up Torque		25.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		30.1 LB-FT		
NEMA Design Code		B		KVA Code	J	Starting Current		44.8 A
Service Factor (S.F.)		1.15		No-load Current		2.97 A		
NEMA Nom. Eff.		89.5	Power Factor	80	Line-line Res. @ 25°C		2.632 Ω	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		44°C
S.F. Amps						Temp. Rise @ S.F. Load		56°C
						Locked-rotor Power Factor		41
						Rotor inertia		0.372 LB-FT ²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	82
Efficiency	85.4	89.7	90.2	89.5	88.2	86.4	88.7
Speed	1789.2	1778.5	1766.9	1753.8	1739.5	1722.1	1745
Line amperes	3.33	4.14	5.26	6.59	8.05	9.68	7.47

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 86108

Typical performance - not guaranteed values

Winding: 36WGS270-R004				Type: 3640M		Enclosure: OPSB		
Nameplate Data				230 V, 60 Hz: Low Voltage Connection				
Rated Output (HP)		5		Full Load Torque		15.05 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		13.2/6.6		Breakdown Torque		44.8 LB-FT		
R.P.M.		1750		Pull-up Torque		25.5 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		30.1 LB-FT		
NEMA Design Code		B		KVA Code	J		Starting Current	89.6 A
Service Factor (S.F.)		1.15		No-load Current		5.94 A		
NEMA Nom. Eff.		89.5	Power Factor	80		Line-line Res. @ 25°C		0.656 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		44°C
S.F. Amps						Temp. Rise @ S.F. Load		54°C
						Locked-rotor Power Factor		40.8
						Rotor inertia		0.372 lb-ft²

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	80	83	84	82
Efficiency	84.3	89.2	89.7	89.6	88.2	86.2	88.8
Speed	1789	1779	1767	1754	1740	1722	1746
Line amperes	6.66	8.28	10.52	13.18	16.1	19.36	14.9

Performance Graph at 230V, 60Hz, 5.0HP Typical performance - Not guaranteed values

