



Product Information Packet

HM9239T

20HP,1760RPM,3PH,60HZ,256T,3766M,OPSB,F1

Part Detail							
Revision:	J	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	37WGT868	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	37J632	Layout:	37LYJ632	Poles:	04	Created Date:	06-07-2006
Base:	RG	Eff. Date:	08-24-2010	Leads:	9#12		

Specs			
Catalog Number:	HM9239T	KVA Code:	H
Enclosure:	ODP	Lifting Lugs:	Standard Lifting Lugs
Frame:	256T	Locked Bearing Indicator:	No Locked Bearing
Output @ Frequency:	20.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 12 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	460.0 V @ 60 HZ	Motor Type:	3766M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Auxillary Box:	No Auxillary Box	Power Factor:	84
Auxillary Box Lead Termination:	None	Product Family:	General Purpose
Base Indicator:	Rigid	Pulley End Bearing Type:	Ball
Bearing Grease Type:	Polyrex EM (-20F +300F)	Pulley Face Code:	Standard
Blower:	None	Pulley Shaft Indicator:	Standard
Current @ Voltage:	24.000 A @ 460.0 V	Rodent Screen:	None
	48.000 A @ 230.0 V	Shaft Extension Location:	Pulley End
	50.000 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
Design Code:	A	Shaft Rotation:	Reversible
Drip Cover:	No Drip Cover	Shaft Slinger Indicator:	No Slinger

Duty Rating:	CONT	Speed Code:	Single Speed
Electrically Isolated Bearing:	Not Electrically Isolated	Motor Standards:	NEMA
Feedback Device:	NO FEEDBACK	Starting Method:	Direct on line
Front Face Code:	Standard	Thermal Device - Bearing:	None
Front Shaft Indicator:	None	Thermal Device - Winding:	None
Heater Indicator:	No Heater	Vibration Sensor Indicator:	No Vibration Sensor
Insulation Class:	B	Winding Thermal 1:	None
Inverter Code:	Not Inverter	Winding Thermal 2:	None

Nameplate NP1889A01

CAT.NO.											
SPEC.	37J632T868H1										
HP	20										
VOLTS	230/460										
AMPS	48/24										
RPM	1760										
FRAME	256T					HZ	60			PH	3
SER.F.	1.15		CODE	H	DES	A	CL	B			
NEMA-NOM-EFF	91.7		PF	84							
RATING	40C AMB-CONT										
CC	010A		USABLE AT 200V					50			
DE	6309				ODE	6206					
AUTO	N		MANUAL	N		NONE	Y				
ENCL	OPSB		SN								
BLANK											

Parts List		
Part Number	Description	Quantity
SA143785	SA 37J632T868H1	1.000 EA
RA133013	RA 37J632T868H1	1.000 EA
S/P101-000-000	EPACT PROCEDURES-FS PLANT-POLYREX EM, NO	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
37CB3006A03	37 CB 1.38 DIA @ 6:00, 1.38 DIA @ 12:00	1.000 EA
WD4100A06	PLUG #1453 T&B	1.000 EA
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	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
WD1000B17	T&B CX35TN OR L35P TERMINAL LUG	1.000 EA
37EP3203A00	FR ENDPLATE 37 L & M OPEN	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37EP3202A02	STD PUEP OPEN 309 BRG W/O GREASER	1.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000G55	PAINT,WILKO 682.62 LACQUER LIGHT GRAY	0.028 GA
HA3104A52	THRUBOLT, .31-18 X 17.000	4.000 EA
37AD2001A01	BAFFLE PLATE, PLASTIC 0.63" WIDTH	2.000 EA
LB1125C04	STD-E (STOCK CTN LABEL STD-E WITH FLAG)	1.000 EA
NP1889A01	NP LABEL W/CD0005 (FOR HVAC MOTOR)	1.000 EA
37PA1074	PALLET PACK GRP, PRINT PK1026A06	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 EA

Accessories		
Part Number	Description	Multiplier
39-3400	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 22014

Typical performance - not guaranteed values

Winding: 37WGT868-R001				Type: 3766M		Enclosure: OPSB		
Nameplate Data				460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		20		Full Load Torque		59.8 LB-FT		
Volts		230/460		Start Configuration		direct on line		
Full Load Amps		48/24		Breakdown Torque		191.9 LB-FT		
R.P.M.		1760		Pull-up Torque		78.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		105.9 LB-FT		
NEMA Design Code		A		KVA Code	H		Starting Current	165.8 A
Service Factor (S.F.)		1.15		No-load Current		7.89 A		
NEMA Nom. Eff.		91.7	Power Factor	84		Line-line Res. @ 25°C		0.5 Ω
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load		70°C
S.F. Amps						Temp. Rise @ S.F. Load		90°C
						Locked-rotor Power Factor		36
						Rotor inertia		1.62 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	74	81	84	85	85	85
Efficiency	91.5	93.5	93.2	92.1	90.7	88.8	91.3
Speed	1791	1781	1771	1759	1746	1729	1751
Line amperes	9.58	13.4	18.4	24.1	30.2	37.4	27.8

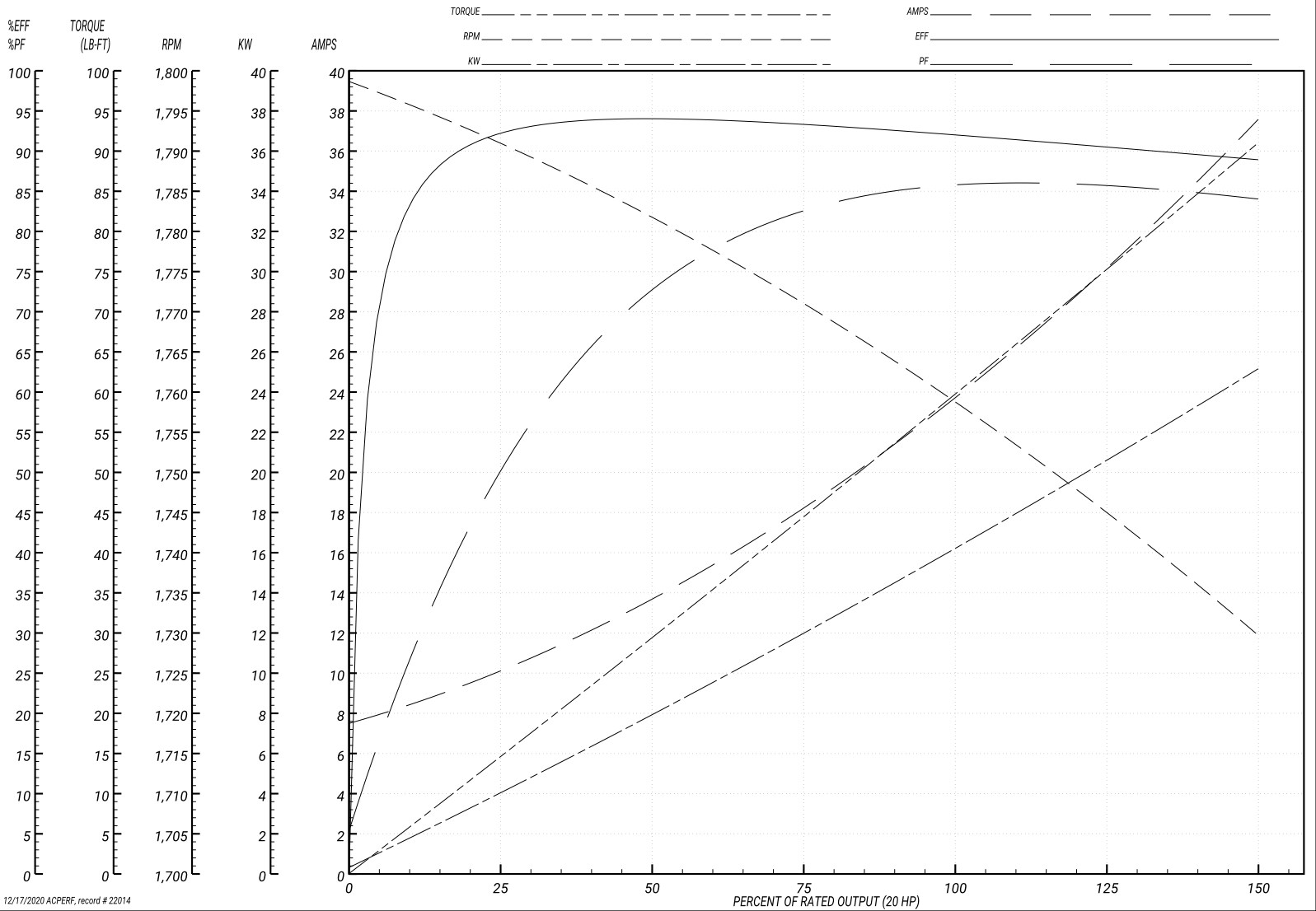
Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

WINDING # 37WGT868

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1760 RPM 460 V 3766M
TORQUES(LB-FT): PO=191.9 PU=78.4 LR=105.9 LRA=165.8



12/17/2020 ACPERF, record # 22014

