



Product Information Packet

HM9139T

20HP,1760RPM,3PH,60HZ,256T,0760M,TEFC,F1

Part Detail							
Revision:	F	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	07WGX826	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	07K357	Layout:	07LYK357	Poles:	04	Created Date:	05-27-2006
Base:	RG	Eff. Date:	08-24-2010	Leads:	9#10		

Specs			
Catalog Number:	HM9139T	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	256T	KVA Code:	J
Frame Material:	Iron	Lifting Lugs:	Standard Lifting Lugs
Output @ Frequency:	20.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 10 AWG
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	0760M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA	Power Factor:	83
Auxillary Box:	No Auxillary Box	Product Family:	General Purpose
Auxillary Box Lead Termination:	None	Pulley End Bearing Type:	Ball
Base Indicator:	Rigid	Pulley Face Code:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Pulley Shaft Indicator:	Standard
Blower:	None	Rodent Screen:	None
Current @ Voltage:	25.000 A @ 460.0 V	Shaft Extension Location:	Pulley End
	50.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding

	54.000 A @ 208.0 V	Shaft Rotation:	Reversible
Design Code:	A	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	Single Speed
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1256L

CAT.NO.												
SPEC.	07K357X826H1											
HP	20											
VOLTS	230/460											
AMP	50/25											
RPM	1760											
FRAME	256T					HZ	60				PH	3
SER.F.	1.15				CODE	J		DES	A		CLASS	F
NEMA-NOM-EFF	91					PF	83					
RATING	40C AMB-CONT											
CC	010A					USABLE AT 208V				54		
DE	6309					ODE	6307					
ENCL	TEFC				SN							

Parts List		
Part Number	Description	Quantity
SA143412	SA 07K357X826H1	1.000 EA
RA132656	RA 07K357X826H1	1.000 EA
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 EA
S/P101-000-000	EPACT PROCEDURES-FS PLANT-POLYREX EM, NO	1.000 EA
HW3201A01	1/2-13 EYEBOLT	1.000 EA
09CB3002SP	CB W/1.38 LEAD HOLE FOR 37, 39, 307 & 30	1.000 EA
09GS1000SP	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
WD1000B17	T&B CX35TN OR L35P TERMINAL LUG	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	1.000 EA
37EP1101A35	FR/PU ENDPLATE, MACH, W/O GREASER	1.000 EA
HA4001A01SP	DRAIN PLUG, PLASTIC (MICRO PLAS)	1.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
07EP1116A28	SPL PU ENDPLATE W/OUT GREASER	1.000 EA
HA4001A01SP	DRAIN PLUG, PLASTIC (MICRO PLAS)	1.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
07FH4007A07	IEC FH NO GR SR, NOTCH @ 6:00 & 3 F/C HOL	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 EA
09GS1013SP	09 GS FOR 09CB3501 LID - LEXIDE	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
HA7000A03	KEY RETAINER RING 1.62 & 1.88 DIA. SH	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW4600B67	V-RING SLINGER 1.770 X 2.170 X .28 VITON	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000G55	PAINT,WILKO 682.62 LACQUER LIGHT GRAY	0.036 GA
HA3104A42	THRUBOLT, .31-18 X 16.375	4.000 EA
LB1125C04	STD-E (STOCK CTN LABEL STD-E WITH FLAG)	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC INDUSTRIAL MOTOR A60	1.000 EA
07PA1011	PKG GRP, 07 CAST IRON PK1181	1.000 EA
10XL3807A32	3/8 X 2" LAG SCREW TDR #49106	2.000 EA
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
09-1309	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 21241

Typical performance - not guaranteed values

Winding: 07WGX826-R001			Type: 0760M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		20		Full Load Torque		59.7 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		50/25		Breakdown Torque		204 LB-FT	
R.P.M.		1760		Pull-up Torque		78 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		122 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		174 A
Service Factor (S.F.)		1.15		No-load Current		9.68 A	
NEMA Nom. Eff.		91	Power Factor	83	Line-line Res. @ 25°C		0.523 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		84°C	
S.F. Amps				Temp. Rise @ S.F. Load		110°C	
				Locked-rotor Power Factor		35	
				Rotor inertia		1.48 LB-FT2	

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	68	77	82	83	84	83
Efficiency	89	92.1	92	91.1	89.7	87.8	90.3
Speed	1790	1780	1769	1757	1743	1727	1749
Line amperes	11.2	14.9	19.5	25	31.1	38	28.7

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

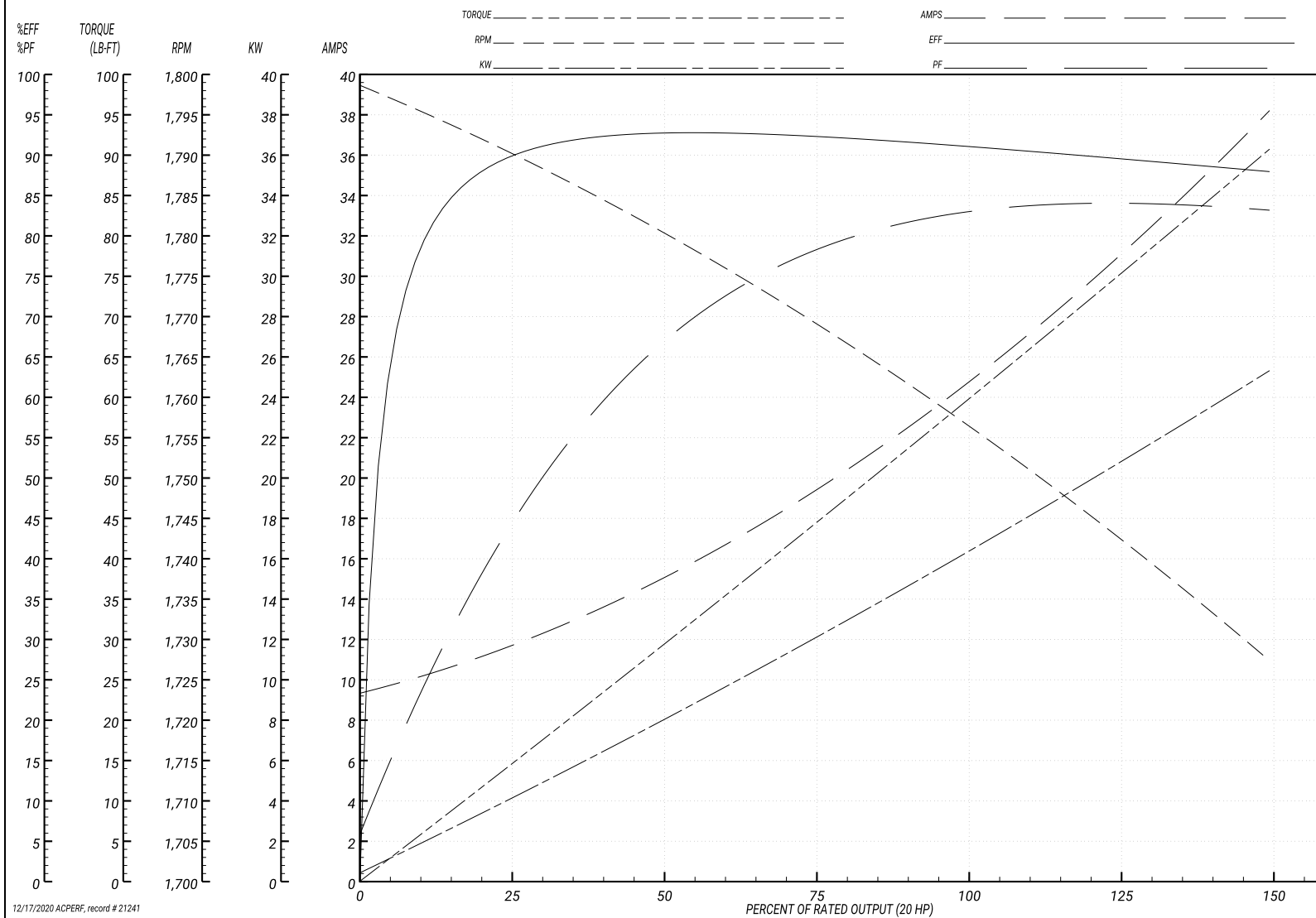
ABB Motors and Mechanical Inc.

WINDING # 07WGX826

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1760 RPM 460 V 0760M

TORQUES(LB-FT): PO=204 PU=78 LR=122 LRA=174



AC Induction Motor Performance Data

Record # 59958

Typical performance - not guaranteed values

Winding: 07WGX826-R001			Type: 0760M		Enclosure: TEFC		
Nameplate Data				460 V, 80 Hz: High Voltage Connection			
Rated Output (HP)		20		Full Load Torque		44.8 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		50/25		Breakdown Torque		110 LB-FT	
R.P.M.		1760		Pull-up Torque		33.3 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		52 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		120 A
Service Factor (S.F.)		1.15		No-load Current		4.42 A	
NEMA Nom. Eff.		91	Power Factor	83	Line-line Res. @ 25°C		0.5 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		63°C	
S.F. Amps				Temp. Rise @ S.F. Load		80°C	
				Locked-rotor Power Factor		27.4	
				Rotor inertia		1.48 LB-FT2	

Load Characteristics 460 V, 80 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	79	95	95	93	90	87	91
Efficiency	92.3	93.9	93.7	92.3	90.5	88	91.2
Speed	2387	2374	2359	2343	2323	2298	2331
Line amperes	6.27	10.5	15.8	21.9	28.7	36.7	26

Performance Graph at 460V, 80Hz, 20.0HP Typical performance - Not guaranteed values

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WINDING # 07WGX826

Typical performance - not guaranteed values.

20 HP 3 PH 80 HZ 1760 RPM 460 V 0760M

TORQUES(LB-FT): PO=110 PU=33.3 LR=52 LRA=120

