



Product Information Packet

EHM2515T

20HP,1765RPM,3PH,60HZ,256T,3948M,OPSB,F1

Part Detail							
Revision:	H	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WGX952	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	39R006	Layout:	39LYR006	Poles:	04	Created Date:	06-22-2016
Base:	RG	Eff. Date:	12-29-2020	Leads:	9#10		

Specs			
Catalog Number:	EHM2515T	Insulation Class:	F
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	256T	KVA Code:	G
Frame Material:	Steel	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:	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:	3948M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	85
	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:	24.000 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	48.000 A @ 230.0 V	Shaft Rotation:	Reversible
	52.000 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	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.	EHM2515T															
SPEC.	39R006X952G1															
HP	20															
VOLTS	230/460															
AMPS	48/24															
RPM	1765															
FRAME	256T				HZ				60		PH		3			
SER.F.	1.15			CODE		G		DES		A		CL		F		
NEMA-NOM-EFF	93				PF		85									
RATING	40C AMB-CONT															
CC	010A				USABLE AT 208V										52	
DE	6309				ODE				6208							
AUTO					MANUAL								NONE			
ENCL	OPSB				SN											
BLANK																

Parts List		
Part Number	Description	Quantity
SA322717	SA 39R006X952G1	1.000 EA
RA310516	RA 39R006X952G1	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
09CB3002SP	CB W/1.38 LEAD HOLE FOR 37, 39, 307 & 30	1.000 EA
HA6016	ADAPTER, CAST CONDUIT BOX	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 EA
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 EA
39EP3200A01SP	FR/PU ENDPLATE, MACH	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
39EP3201A23	PU ENDPLATE, MACH W/AEGIS SH RING MTG	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
84XN0540J08	5-40 X 1/2" SHCS, BLACK OXIDE	3.000 EA
XY3816A12	3/8-16 FINISHED NUT	8.000 EA
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	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
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.030 LB
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 EA
HA3154A03	STUD, 3/8-16 X 17.75	4.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.050 GA
LC0181	CONNECTION LABEL	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 EA
39PA1000	PACKAGING GROUP 39 PRINT	1.000 EA
LD7020E09	LEAD SET, 10AWG, 9 LEAD, 20" LONG LEADS	1.000 EA

AC Induction Motor Performance Data

Record # 56778

Typical performance - not guaranteed values

Winding: 39WGX952-R001				Type: 3948M		Enclosure: OPSB	
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		48/24		Breakdown Torque		187 LB-FT	
R.P.M.		1765		Pull-up Torque		78.1 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		112 LB-FT	
NEMA Design Code		A	KVA Code	G	Starting Current		156 A
Service Factor (S.F.)		1.15		No-load Current		8.83 A	
NEMA Nom. Eff.		93	Power Factor	85	Line-line Res. @ 25°C		0.48438 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		37°C	
S.F. Amps				Temp. Rise @ S.F. Load		46°C	
				Locked-rotor Power Factor		33.3	

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	72	81	85	87	87	86
Efficiency	90.2	93.3	93.5	93	92.2	91	92.5
Speed	1792.2	1784.8	1776.1	1767.5	1757.6	1746.3	1762
Line amperes	10.5	14	18.6	23.8	29.4	35.6	27.2

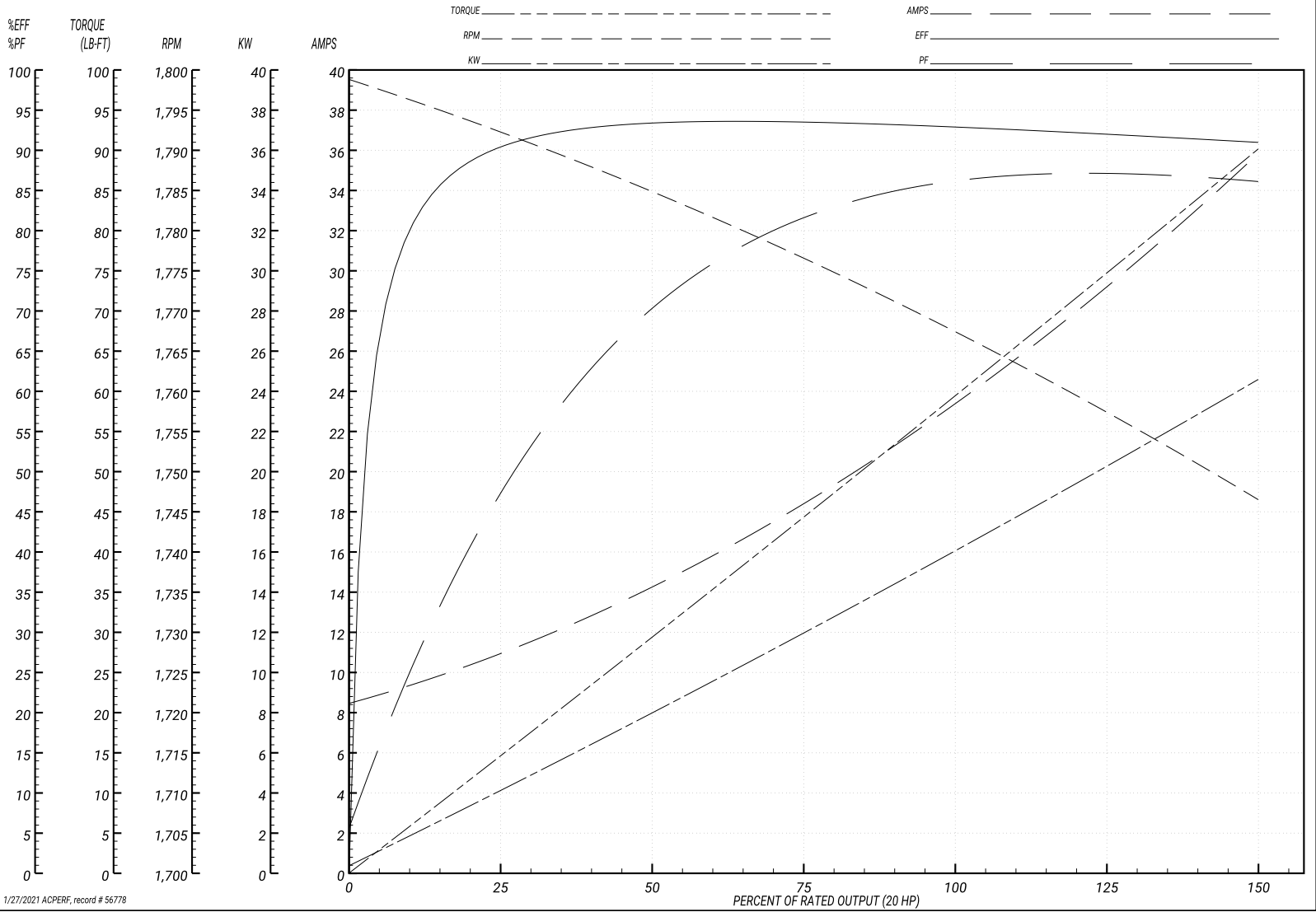
Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

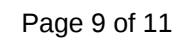
Typical performance - not guaranteed values.

WINDING # 39WGx952

20 HP 3 PH 60 HZ 1765 RPM 460 V 3948M
TORQUES(LB-FT): PO=187 PU=78.1 LR=112 LRA=156



1/27/2021 ACPERF, record # 56778



CD0180

1-BLU

4-YEL

9-GRY

7-PNK

5-BLK

6-PRP

8-RED

3-ORG

OPTIONAL THERMOSTATS

J-BRN

J-BRN

2-WHT

LOW VOLTAGE (2D)

7

6

1

8

4

2

9

5

3

LINE

HIGH VOLTAGE (1D)

7

4

1

8

5

2

9

6

3

LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.

2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.

3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.

4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10:25:29 02/19/2019

BY: ENBRIRO

MTL: -

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

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