

BALDOR® • RELIANCE 

Product Information Packet

EHM2515T-8

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

Part Detail							
Revision:	B	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WGX981	CD Diagram:	CD0695	Mfg Plant:	
Mech. Spec:	39R006	Layout:	39LYR006	Poles:	04	Created Date:	06-20-2016
Base:	RG	Eff. Date:	07-05-2019	Leads:	6#8		

Specs			
Catalog Number:	EHM2515T-8	Inverter Code:	Inverter Ready
Enclosure:	OPSB	KVA Code:	G
Frame:	256T	Lifting Lugs:	Standard Lifting Lugs
Frame Material:	Steel	Locked Bearing Indicator:	No Locked Bearing
Output @ Frequency:	20.000 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 8 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	200.0 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:	UR	Power Factor:	85
	CSA	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:	55.000 A @ 200.0 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:	Part Winding
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:	F	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP2094E06B03	
CAT.NO.	EHM2515T-8
SPEC.	39R006X981G1
HP	20
VOLTS	200
AMPS	55
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
DE	6309
	ODE 6208
AUTO	
	MANUAL
	NONE
ENCL	OPSB
	SN
BLANK	

Parts List		
Part Number	Description	Quantity
SA322711	SA 39R006X981G1	1.000 EA
RA310510	RA 39R006X981G1	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
39CB4000A01	CONDUIT BOX 39, STAMPED	1.000 EA
19XW2520A08	SCREW,1/4-20X1/2 TAPTITE-II OR ROLOC 91	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 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
39CB4500A01	CONDUIT BOX LID 39, STAMPED, W/ PRIMER	1.000 EA
51XF1032A08	10/32X1/2 HXWSHR HD, SL, TYPE F ,SERATED	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
LC0695	CONNECTION LABEL	1.000 EA
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
39PA1000	PACKAGING GROUP 39 PRINT	1.000 EA

AC Induction Motor Performance Data

Record # 57709 - Typical performance - not guaranteed values

Winding: 39WGX981-R001	Type: 3948M	Enclosure: OPSB
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Nameplate Data				200 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	20			Full Load Torque	59.8 LB-FT
Volts	200			Start Configuration	direct on line
Full Load Amps	55			Breakdown Torque	182 LB-FT
R.P.M.	1765			Pull-up Torque	76.1 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	109 LB-FT
NEMA Design Code	A	KVA Code	G	Starting Current	350 A
Service Factor (S.F.)	1.15			No-load Current	19.6 A
NEMA Nom. Eff.	93	Power Factor	85	Line-line Res. @ 25°C	0.0886 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
				Rotor inertia	2.1 LB-FT ²

Load Characteristics 200 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	73	82	85	87	87	86
Efficiency	90.5	93.3	93.5	93.1	92.1	90.8	92.5
Speed	1792	1785	1776	1767	1757	1745	1761
Line amperes	23.5	31.7	42.4	54.5	67.5	81.9	62.3

Performance Graph at 200V, 60Hz, 20.0HP Typical performance - Not guaranteed values

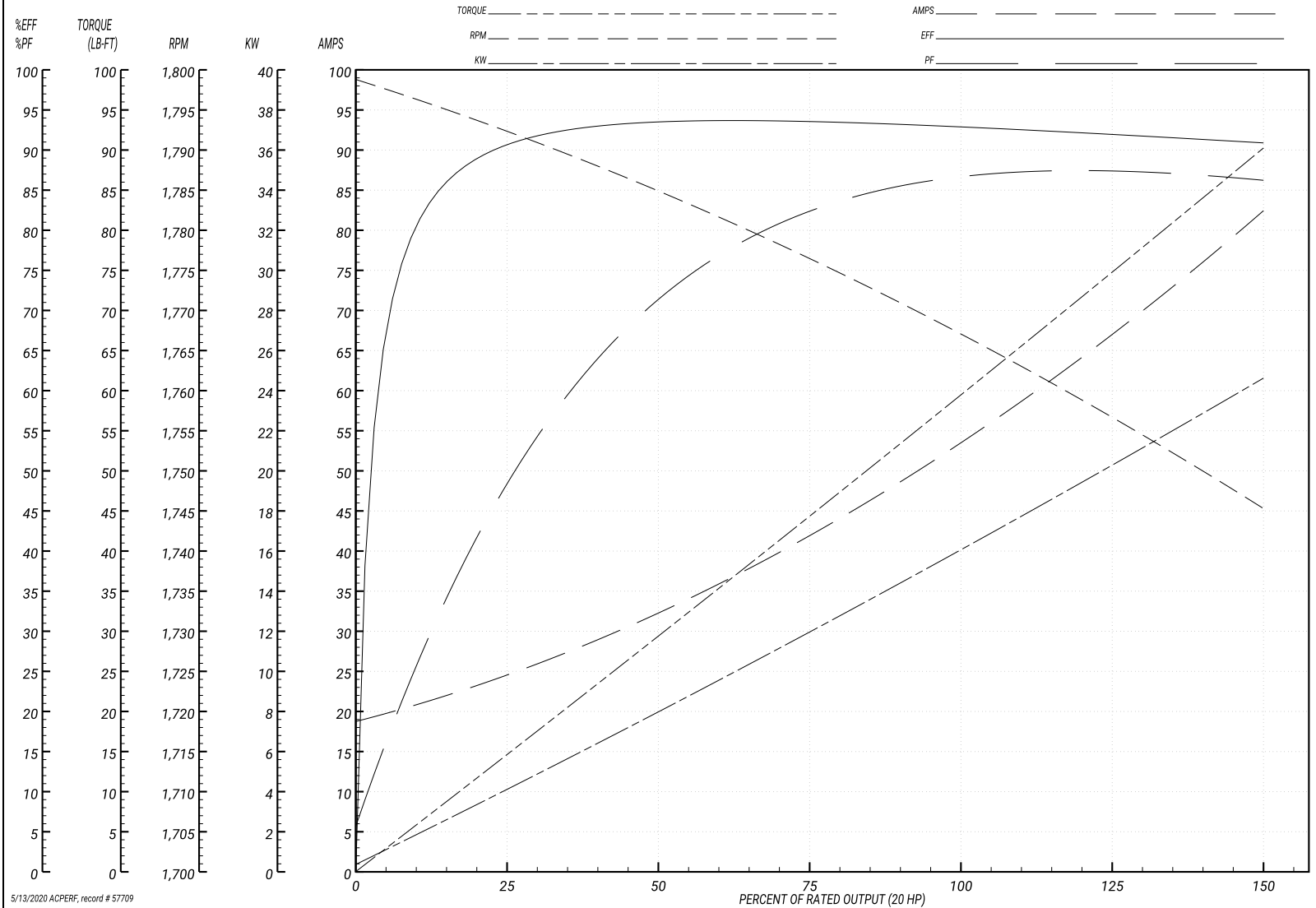
ABB Motors and Mechanical Inc.

WINDING # 39WGX981

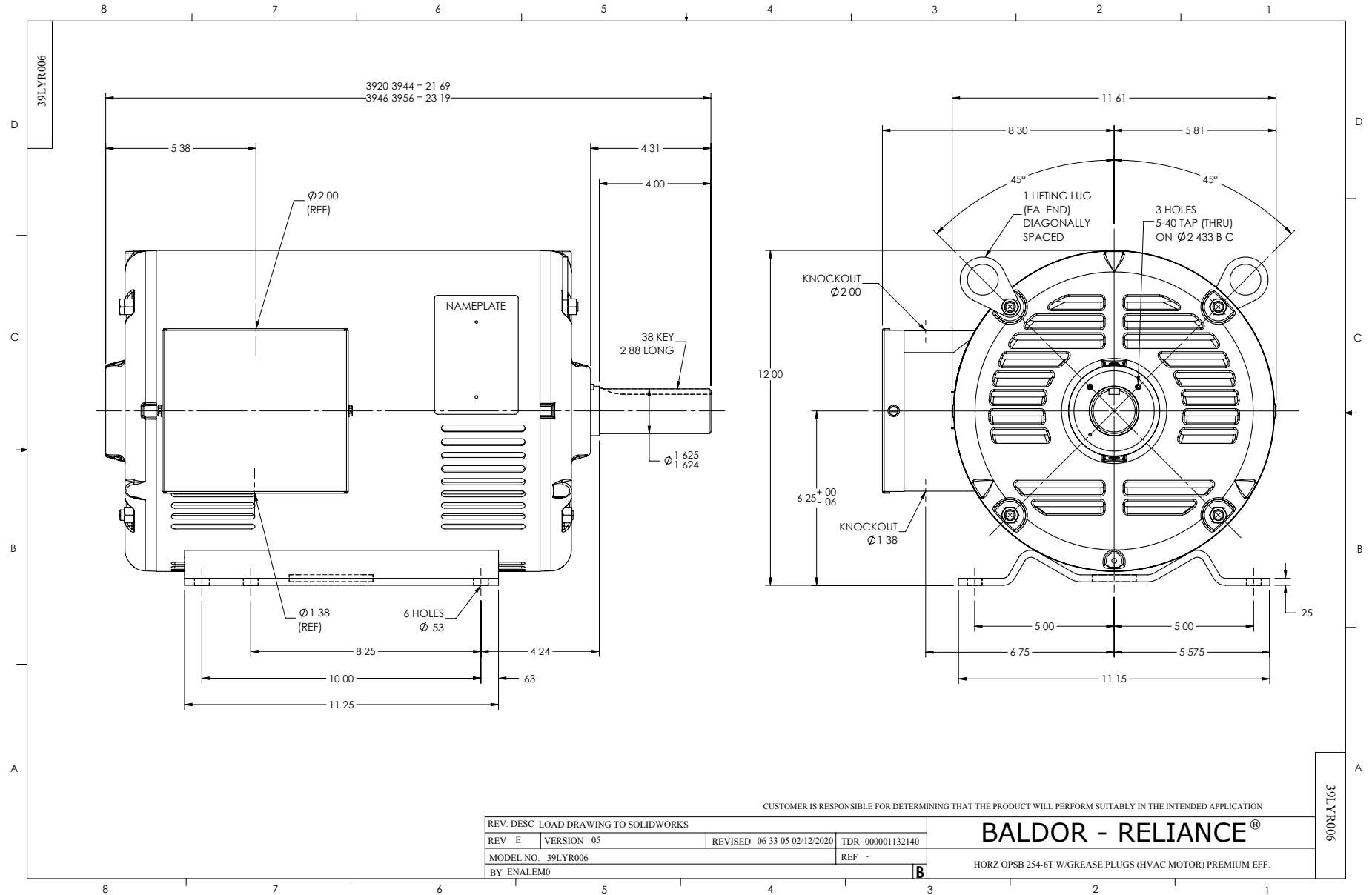
Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1765 RPM 200 V 3948M

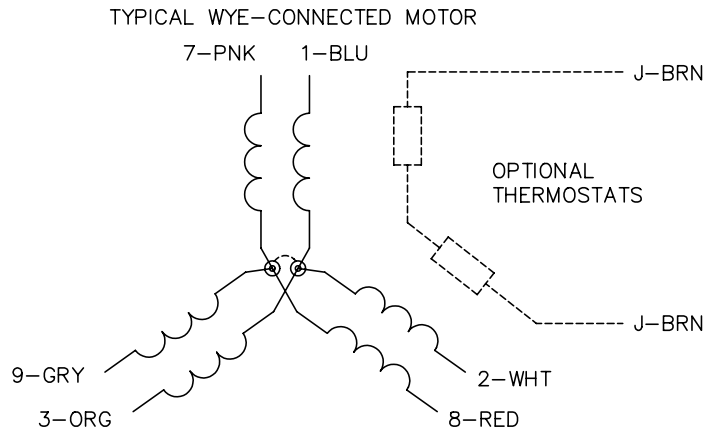
TORQUES(LB-FT): PO=182 PU=76.1 LR=109 LRA=350



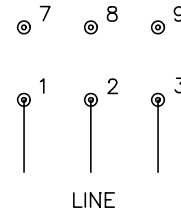
5/13/2020 ACPERF, record # 57709



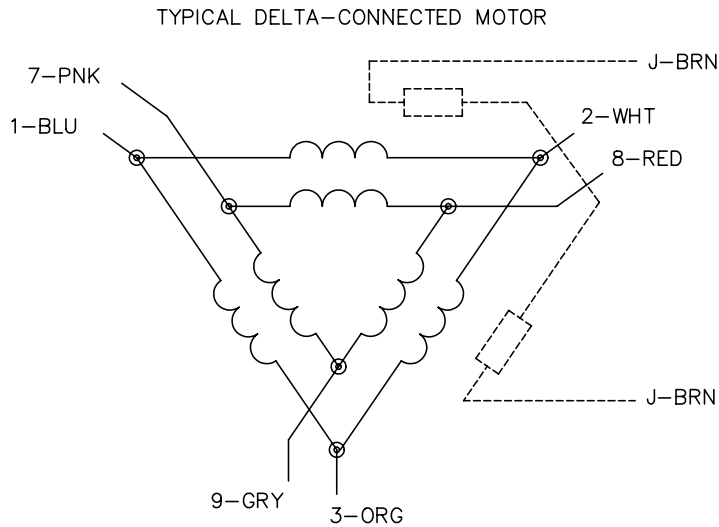
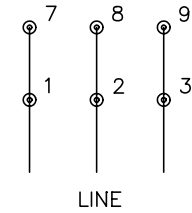
CD0695



START CONNECTION



RUN CONNECTION



NOTES:

1. MOTOR MAY BE WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: C

BY: JLP

REVISED: 01/21/99 3:19

TDR: 0171435

9690D0

FILE: AAA00005151

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, PART WINDING START

CD0695

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