

BALDOR® • RELIANCE 

Product Information Packet

EJPM2538T

40HP,3510RPM,3PH,60HZ,286JP,3956M,OPSB,F

Part Detail							
Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	39WGX287	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	39E303	Layout:	39LYE303	Poles:	02	Created Date:	05-05-2009
Base:	RG	Eff. Date:	02-04-2019	Leads:	9#8		

Specs			
Catalog Number:	EJPM2538T	Heater Indicator:	No Heater
Enclosure:	OPSB	Insulation Class:	F
Frame:	286JP	Inverter Code:	Inverter Ready
Frame Material:	Steel	KVA Code:	H
Output @ Frequency:	40.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 8 AWG
	230.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	3956M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	90
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Pulley Shaft Indicator:	Tapped & Key
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	Included
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	45.000 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding
	90.000 A @ 230.0 V	Shaft Rotation:	Reversible
	99.000 A @ 208.0 V	Shaft Slinger Indicator:	Shaft 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
		Winding Thermal 2:	None

Nameplate NP2138LUA												
CAT.NO.	EJPM2538T			P/N				ENCLOSURE	OPSB			
SPEC.	39E303X287		CC	010A		FRAME	286JP		S/N			
HP	40			CLASS	F		HZ	60				
RPM	3510			PH	3		DES	A				
VOLT	230/460			KVA-CODE	H		ODE BRG	6208		DE BRG	6312	
AMP	90/45			USABLE AT 208V	99							
RATING	40C AMB-CONT			GREASE	POLYREX EM							
NEMA-NOM-EFF	92.4		PF	90		SER.F.	1.15					
HTR-VOLTS	50HZ 40HP 190/380V 110/55A					SF1.0						
	HTR-AMPS											

Parts List		
Part Number	Description	Quantity
SA181650	SA 39E303X287	1.000 EA
RA169577	RA 39E303X287	1.000 EA
HW3201A01	1/2-13 EYEBOLT	1.000 EA
09CB2800A01	ADAPTER MACH FOR 09CB3000 AND 10CB3000	1.000 EA
19XW3118A08	.31-18 X .50 HEX WASHER HEAD TAPTITE II	2.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	1.000 EA
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 EA
39EP3200A01SP	FR/PU ENDPLATE, MACH	1.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
HA1101A01	RODENT SCREEN, 39 MTR	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 EA
39EP1404A09	PUEP MACH, 284-6JP OPEN, RODENT SCREEN	1.000 EA
HA1101A06	RODENT SCREEN FOR 39EP1404	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	6.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
HA2009A03	SLINGER, ALUMINUM, (AUTO)ANODIZED ALUM	1.000 EA
80XN1032A06	10-32 X 3/8 SET SC HEX SOCK	1.000 EA
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW2501E18	KEY, 1/4 SQ X 2.000	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.030 LB
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 EA
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 EA
39AD2002A01	BAFFLE PLATE 39 OPEN, SLOTTED BAND MTRS	1.000 EA
HA3113A05	THRUBOLT 3/8 - 16 X 17.250	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP2138LUA	ALUM SUPER-E UL CSA-EEV PREM CC (300SER)	1.000 EA
42PA1032	PACKAGING GROUP PK1030A06	1.000 EA

AC Induction Motor Performance Data

Record # 13126 - Typical performance - not guaranteed values

Winding: 39WGX287-R001	Type: 3956M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	40			Full Load Torque	60.7 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	90/45			Breakdown Torque	252 LB-FT
R.P.M.	3510			Pull-up Torque	80.9 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	115 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	326 A
Service Factor (S.F.)	1.15			No-load Current	11.3 A
NEMA Nom. Eff.	92.4	Power Factor	90	Line-line Res. @ 25°C	0.211 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	60°C
S.F. Amps				Temp. Rise @ S.F. Load	77°C
				Locked-rotor Power Factor	28
				Rotor inertia	1.43 LB-FT ²

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	82	88	90	91	92	91
Efficiency	92.7	94.1	93.8	92.7	91.4	89.9	91.9
Speed	3578	3555	3531	3503	3474	3441	3486
Line amperes	16.1	24.4	34.1	45.3	56.6	68.6	52.08

Performance Graph at 460V, 60Hz, 40.0HP Typical performance - Not guaranteed values

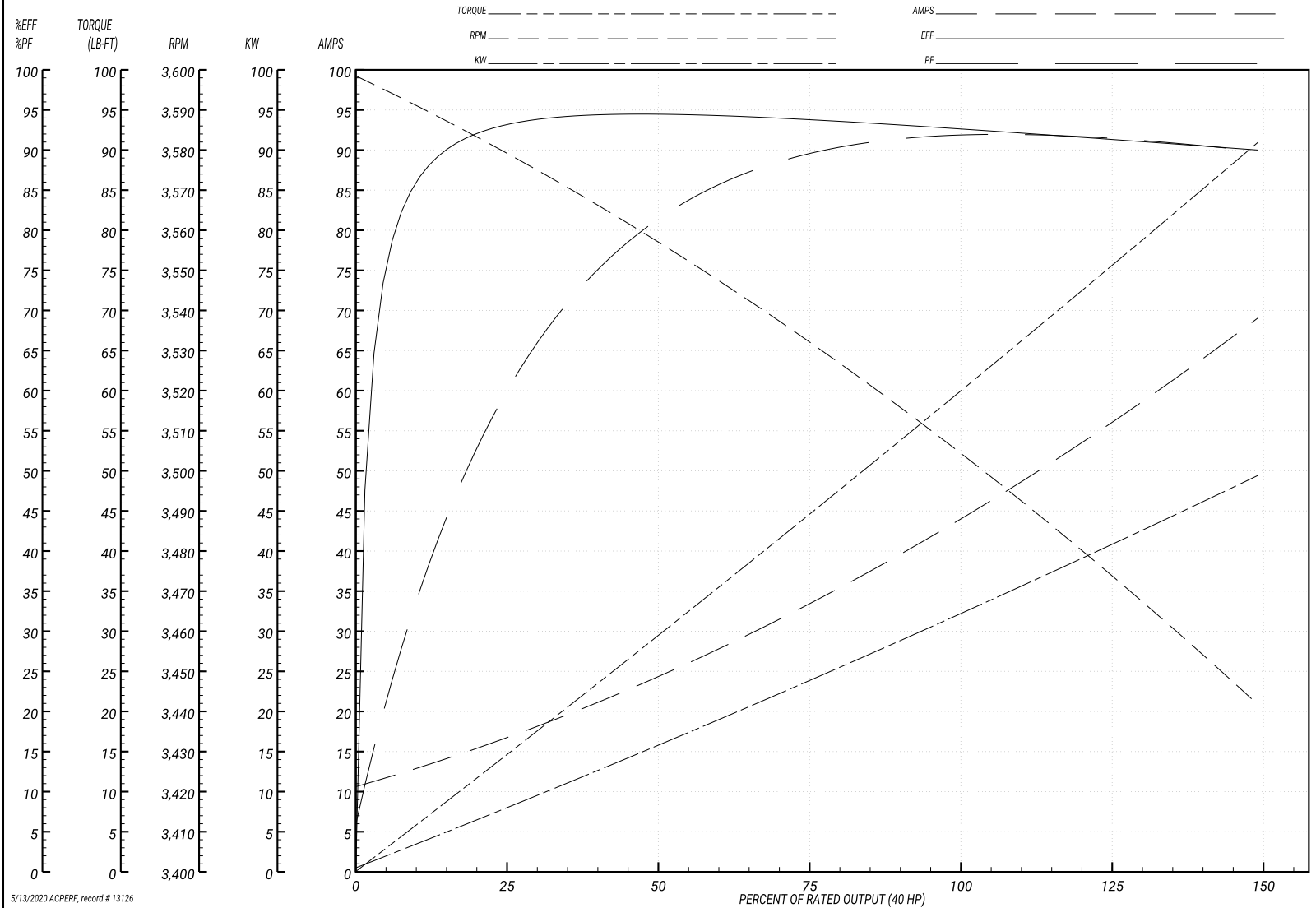
ABB Motors and Mechanical Inc.

WINDING # 39WGx287

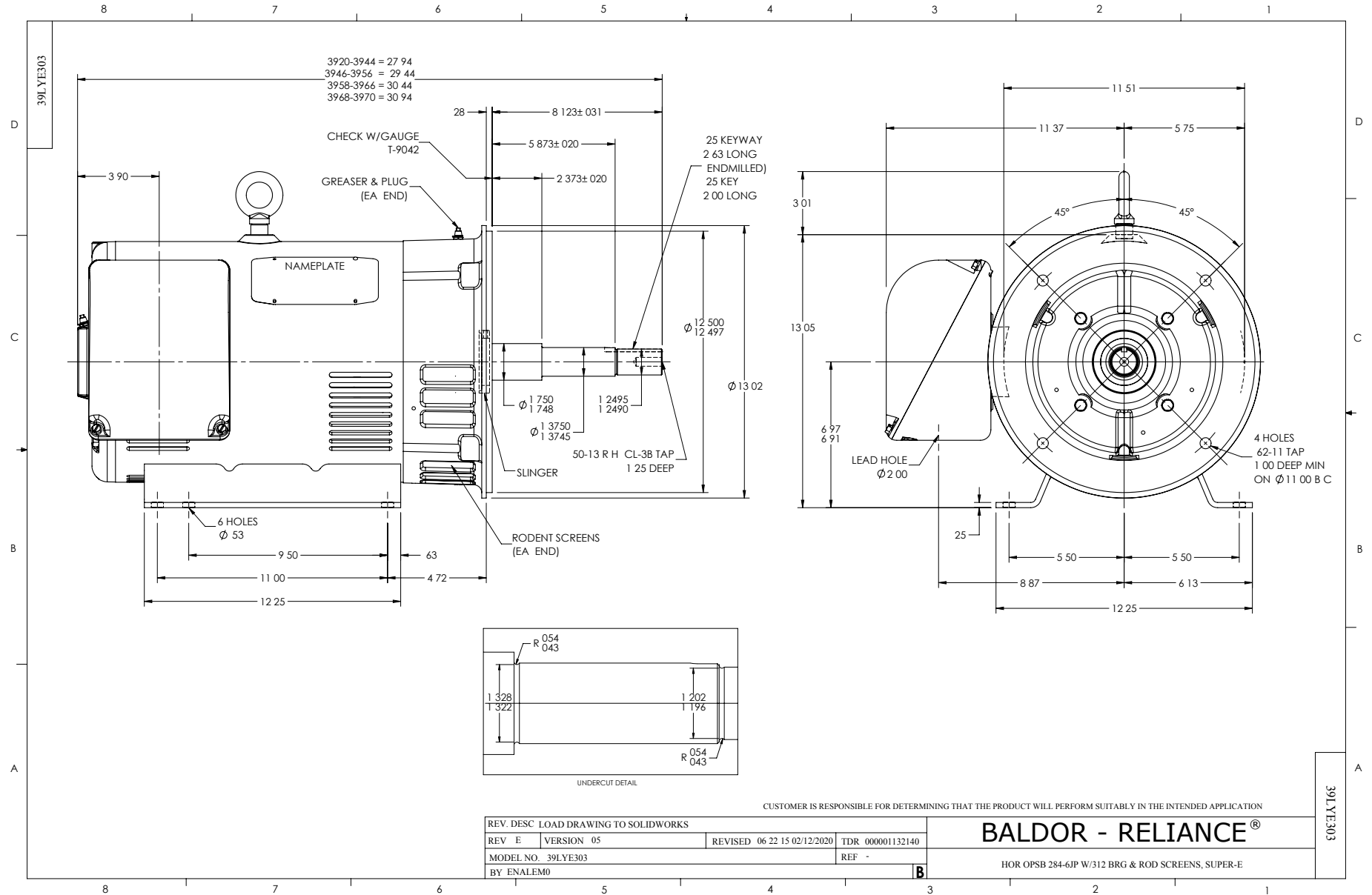
Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 3510 RPM 460 V 3956M

TORQUES(LB-FT): PO=252 PU=80.9 LR=115 LRA=326



5/13/2020 ACPERF, record # 13126



CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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
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MTL: -	© □	

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3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

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