

BALDOR® • RELIANCE 

Product Information Packet

EHM2528T

20HP, 1180RPM, 3PH, 60HZ, 286T, 4056M, OPSB, F1

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	40WGX191	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	40J098	Layout:	40LYJ098	Poles:	06	Created Date:	08-01-2017
Base:	RG	Eff. Date:	02-08-2018	Leads:	9#10		

Specs			
Catalog Number:	EHM2528T	Inverter Code:	Inverter Ready
Enclosure:	OPSB	KVA Code:	H
Frame:	286T	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:	9 @ 10 AWG
Synchronous Speed @ Frequency:	1200 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:	4056M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	UR	Power Factor:	74
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:	27.000 A @ 460.0 V	Shaft Extension Location:	Pulley End
	54.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	56.000 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 (OLD)
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
Insulation Class:	F	Winding Thermal 2:	None

Nameplate NP2094E06B03	
CAT.NO.	EHM2528T
SPEC.	40J098X191G1
HP	20
VOLTS	230/460
AMPS	54/27
RPM	1180
FRAME	286T
	HZ 60
	PH 3
SER.F.	1.15
	CODE H
	DES A
	CL F
NEMA-NOM-EFF	92.4
	PF 74
RATING	40C AMB-CONT
CC	010A
	USABLE AT 208V 56
DE	6311
	ODE 6309
AUTO	
	MANUAL
	NONE
ENCL	OPSB
	SN
BLANK	

Parts List		
Part Number	Description	Quantity
SA342649	SA 40J098X191G1	1.000 EA
RA331085	RA 40J098X191G1	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
40CB4000A01	CONDUIT BOX 40, STAMPED	1.000 EA
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	2.000 EA
WD1000B16	T&B CX70TN TERMINAL	1.000 EA
40EP3200A02	STD FREP OPEN 309 BRG	1.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
40EP3200B31	PUEP OPEN 311 BRG W/SH GND MTG	1.000 EA
84XN0540J08	5-40 X 1/2" SHCS, BLACK OXIDE	2.000 EA
XY3816A12	3/8-16 FINISHED NUT	8.000 EA
39CB4500A01	CONDUIT BOX LID 39, STAMPED, W/ PRIMER	1.000 EA
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	2.000 EA
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.070 GA
HA3154A04	THRUBOLT STUD 3/8-16 X 18.750	4.000 EA
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 EA
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
40PA1000	PACKAGING GROUP	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 5/18	1.000 EA

AC Induction Motor Performance Data

Record # 66052 - Typical performance - not guaranteed values

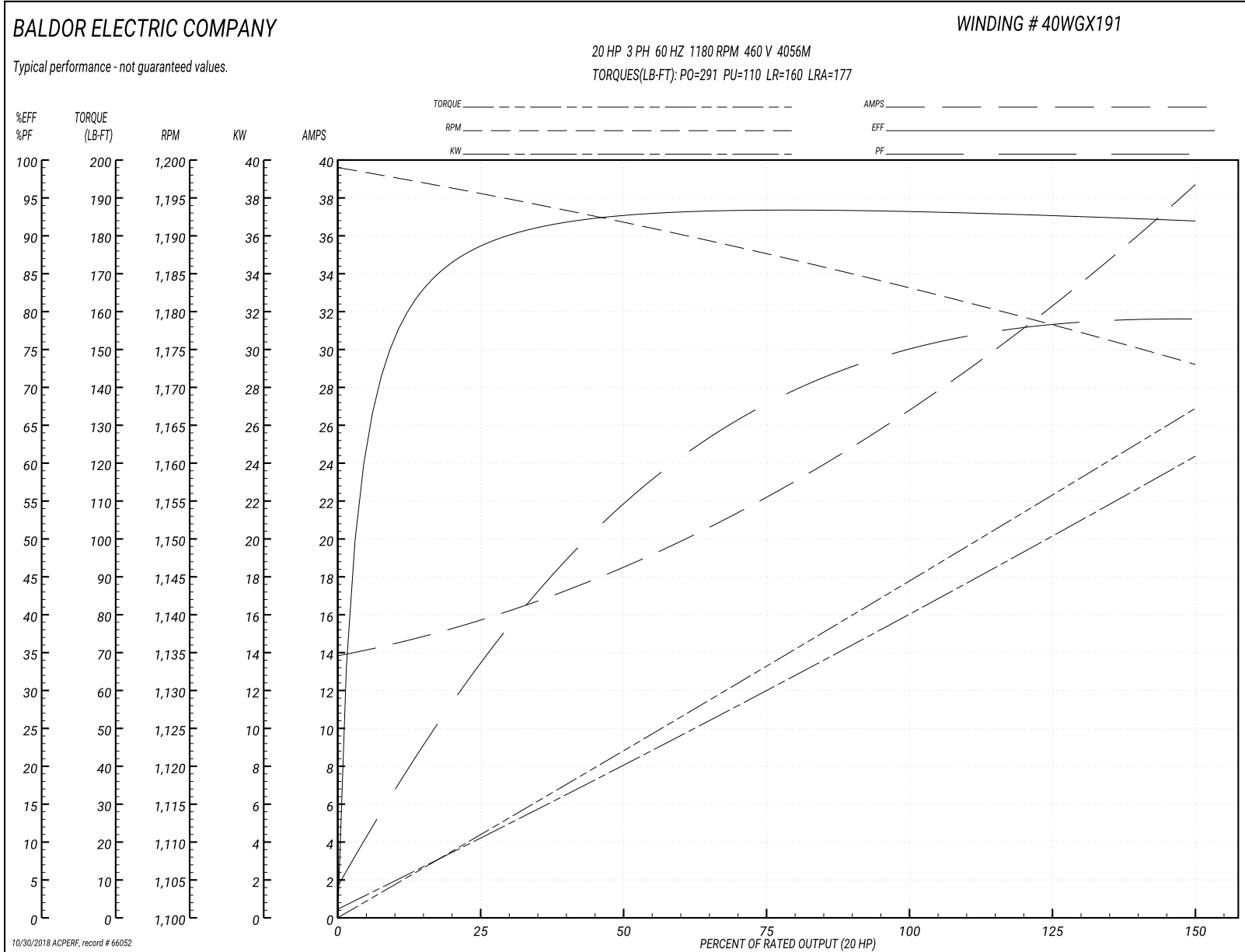
Winding: 40WGX191-R001	Type: 4056M	Enclosure: OPSB
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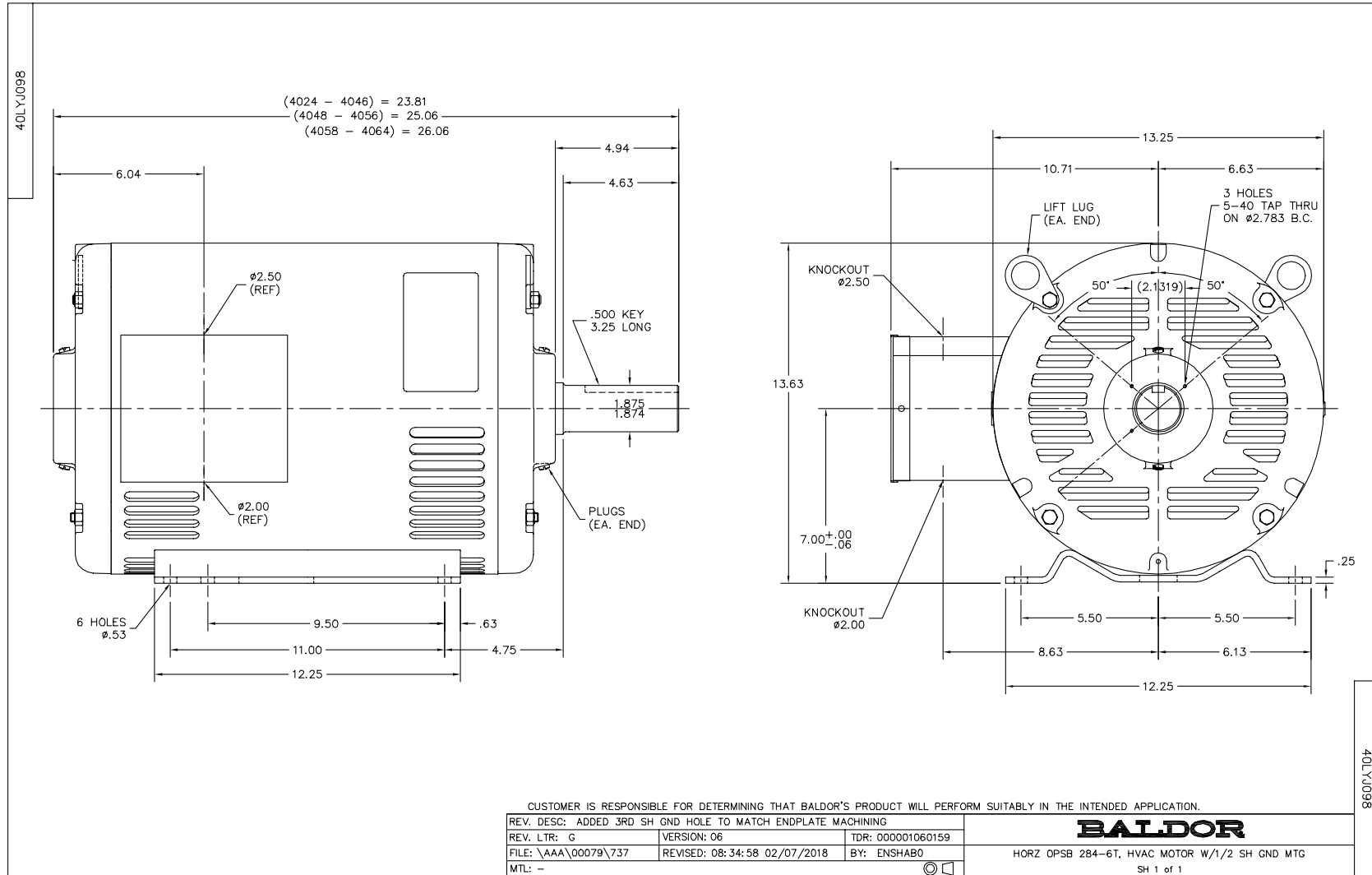
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	20			Full Load Torque	88.68 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	54/27			Breakdown Torque	291 LB-FT
R.P.M.	1180			Pull-up Torque	110 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	160 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	177 A
Service Factor (S.F.)	1.15			No-load Current	14.1 A
NEMA Nom. Eff.	92.4	Power Factor	74	Line-line Res. @ 25°C	0.38967 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	29°C
S.F. Amps				Temp. Rise @ S.F. Load	35°C
				Locked-rotor Power Factor	31.3

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	55	68	74	78	79	76
Efficiency	88.4	92.5	93.3	93.2	92.7	91.9	92.9
Speed	1195.7	1191.7	1187.5	1183.3	1178.5	1172.9	1180
Line amperes	15.4	18.3	22.2	27	32.4	38.5	30.2

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





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: C BY: JLP

REVISED: 01/21/99 2:28

TDR: 0171435

0810D0

FILE: AAA00005148

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS, DELTA CONNECTION

CD0180

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