ABB BALDOR RELIANCE

Customer information packet

EHM2528T

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

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Specifications

Enclosure	OPSB
Frame	286T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	56.000 A @ 208.0 V
	54.000 A @ 230.0 V
	27.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	27.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	G
Type	AC
Mech. spec.	40J098
Base	
Status	PRD/A
Elec. spec.	40WGX191
Layout	40LYJ098
Eff. date	04-25-2025
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	08-01-2017

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4056M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	25.06 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
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**		N/A					
DE	6311	**ODE**	6309						
AUTO		**MANUAL**		**NONE**					
ENCL	OPSB	**SN**							
BLANK									

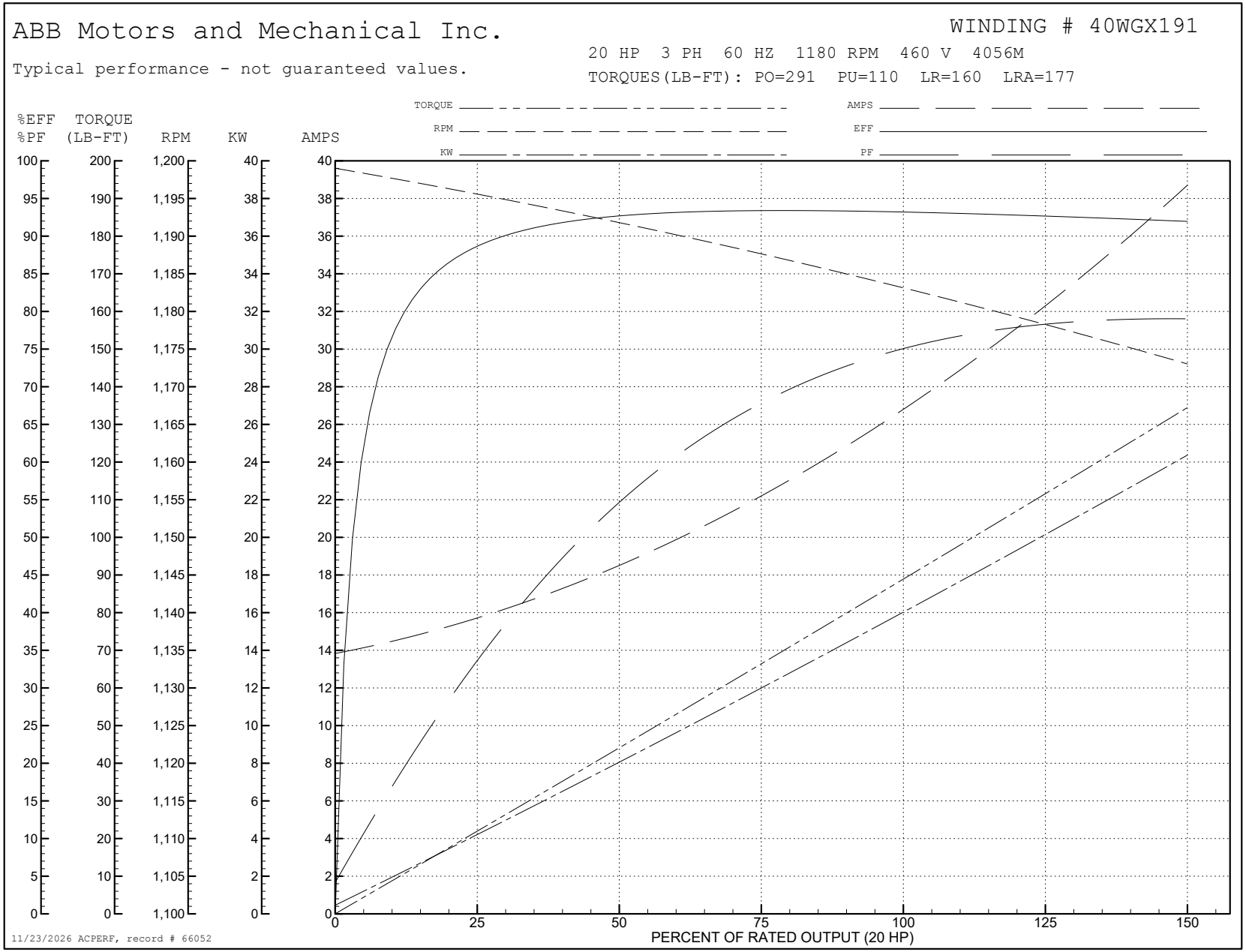
AC Induction Motor Performance Data
Record # 66052
Typical performance - not guaranteed values

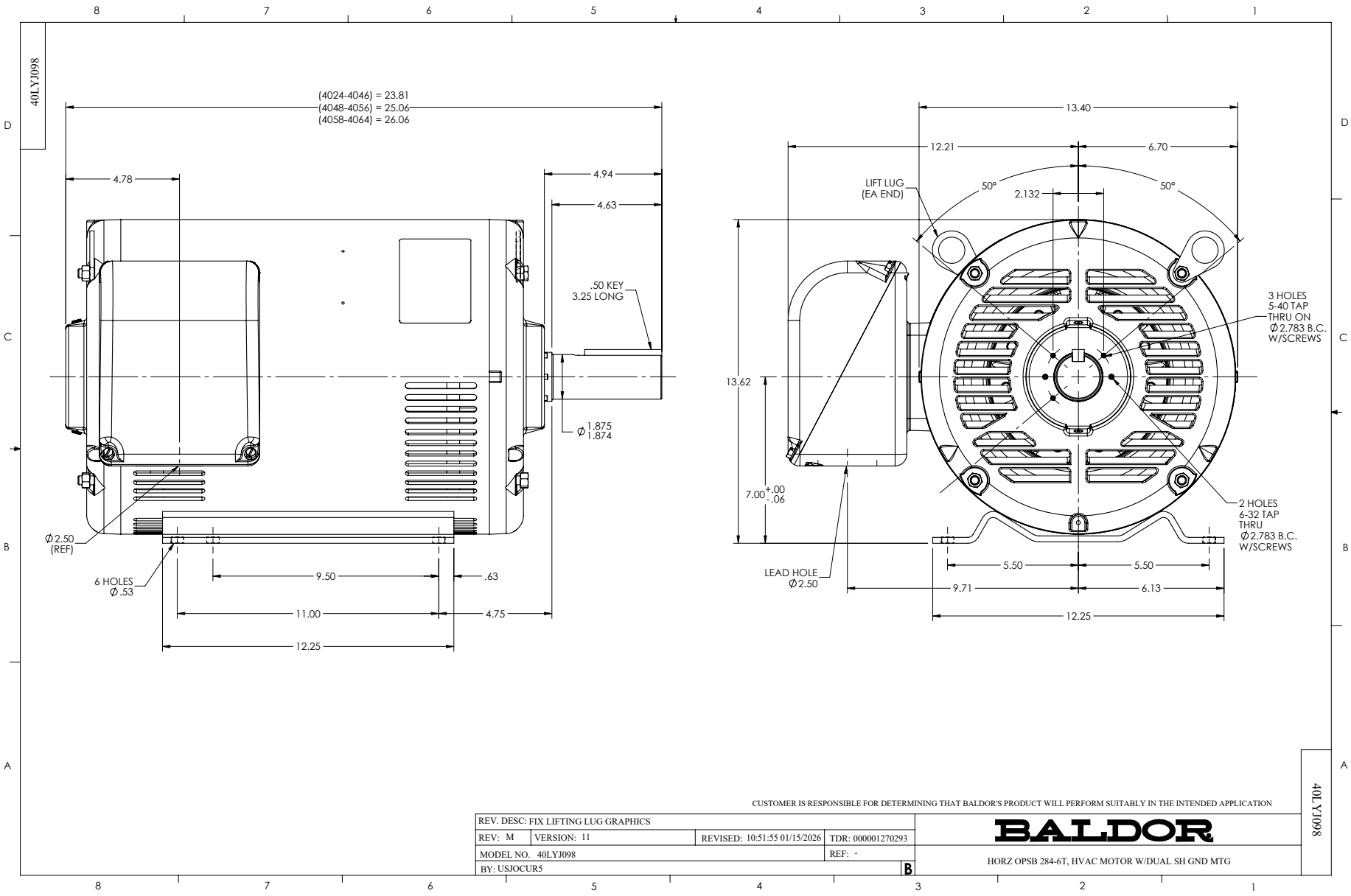
Winding: 40WGX191-R001	**Type:** 4056M	**Enclosure:** OPSB

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. @ 25ºC**	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

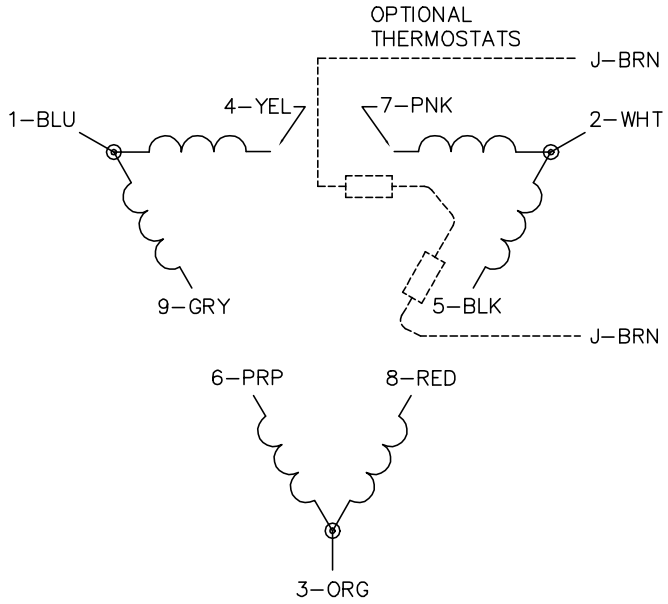
Load Characteristics 460 V, 60 Hz, 20 HP

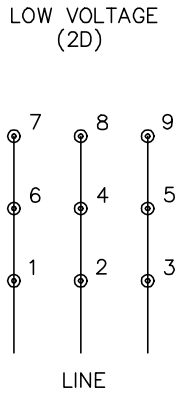
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	34	55	68	74	78	79	76
Efficiency	88.4	92.5	93.3	93.2	92.7	91.9	92.9
Speed	1195.7	1191.7	1187.5	1183.3	1178.5	1172.9	1180
Line amperes	15.4	18.3	22.2	27	32.4	38.5	30.2

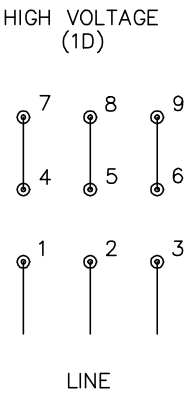

ABB Motors and Mechanical Inc.
WINDING # 40WGX191
20 HP 3 PH 60 HZ 1180 RPM 460 V 4056M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=291 PU=110 LR=160 LRA=177
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
11/23/2026 ACPERF, record # 66052


40LYJ098
(4024-4046) = 23.81
(4048-4056) = 25.06
(4058-4064) = 26.06
4.78
4.94
4.63
.50 KEY
3.25 LONG
Ø 1.875
1.874
Ø 2.50
(REF)
6 HOLES
Ø .53
9.50
.63
11.00
4.75
12.25
13.40
12.21
6.70
LIFT LUG
(EA END)
50°
2.132
50°
3 HOLES
5-40 TAP
THRU ON
Ø 2.783 B.C.
W/SCREWS
13.62
7.00 +.00 -.06
2 HOLES
6-32 TAP
THRU
Ø 2.783 B.C.
W/SCREWS
LEAD HOLE
Ø 2.50
5.50
5.50
9.71
6.13
12.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: FIX LIFTING LUG GRAPHICS
REV: M
VERSION: 11
REVISED: 10:51:55 01/15/2026
TDR: 000001270293
MODEL NO. 40LYJ098
REF: -
BY: USJOCUR5
B
BALDOR
HORZ OPSB 284-6T, HVAC MOTOR W/DUAL SH GND MTG
40LYJ098

CD0180







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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1