ABB BALDOR RELIANCE

Customer information packet

CEM2528T

20HP, 1180RPM, 3PH, 60HZ, 286TC, OPSB, F1

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Specifications

Enclosure	OPSB
Frame	286TC
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	CURUSEEV
	NEMA PREMIUM
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
Heater Indicator	No Heater
High Voltage Full Load Amps	27.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	40WGX191
Layout	40LYD102
Eff. date	02-12-2024
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	02-20-2020

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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 Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP2138L													
CAT.NO.	CEM2528T		**P/N**				**ENCLOSURE**	OPSB					
SPEC.	40-0000783	**CC**	010A	**FRAME**	286TC		**S/N**						
HP	20		**CLASS**	F	**HZ**	60							
RPM	1180		**PH**	3	**DES**	A							
VOLT	230/460				**KVA-CODE**	H		**ODE BRG**	6309	**DE BRG**	6311		
AMP	54/27												
RATING	40C AMB-CONT			**GREASE**	POLYREX EM								
NEMA-NOM-EFF	92.4	**PF**	74	**SER.F.**	1.15								
HTR-VOLTS		**HTR-AMPS**											

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

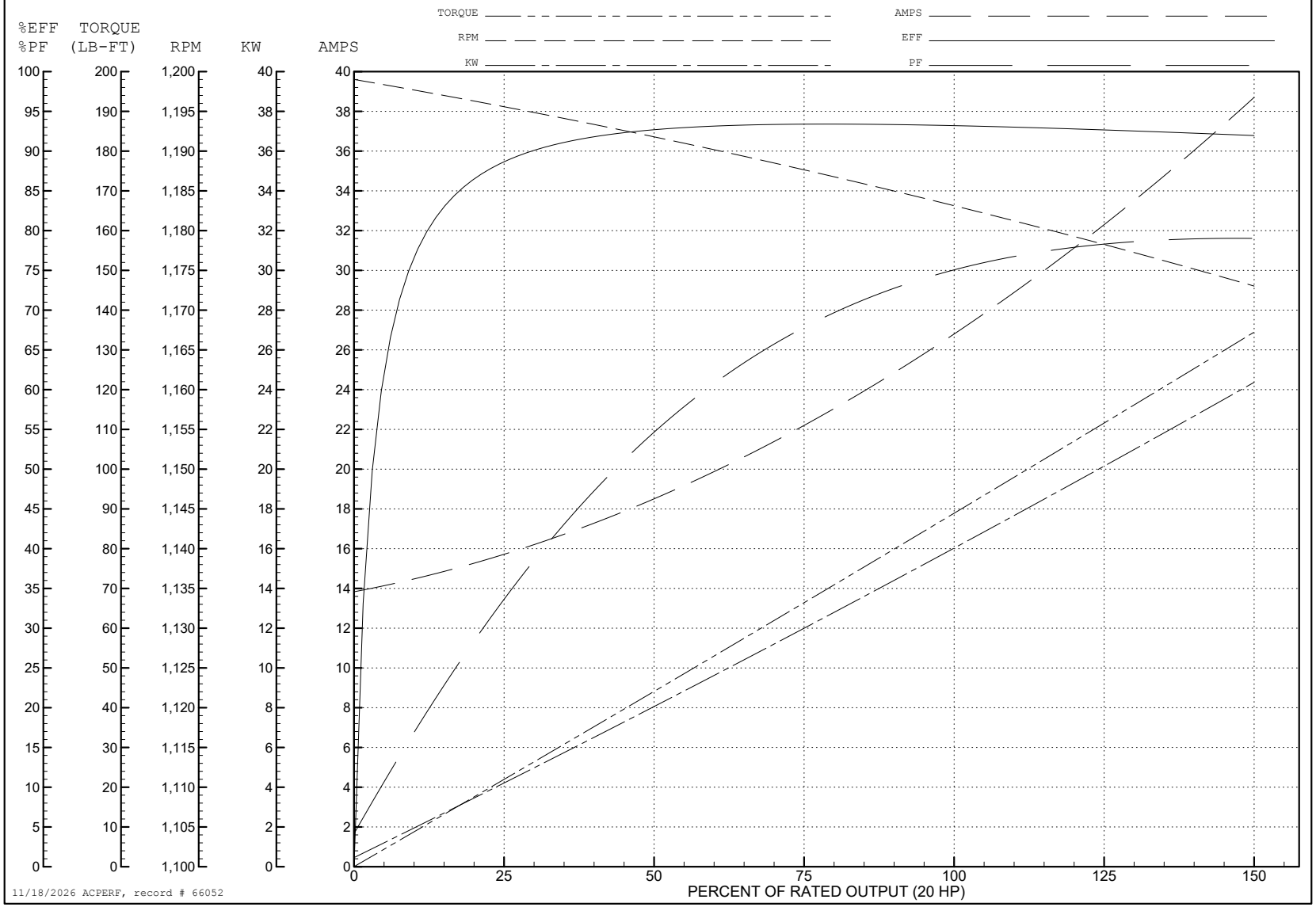
ABB Motors and Mechanical Inc.

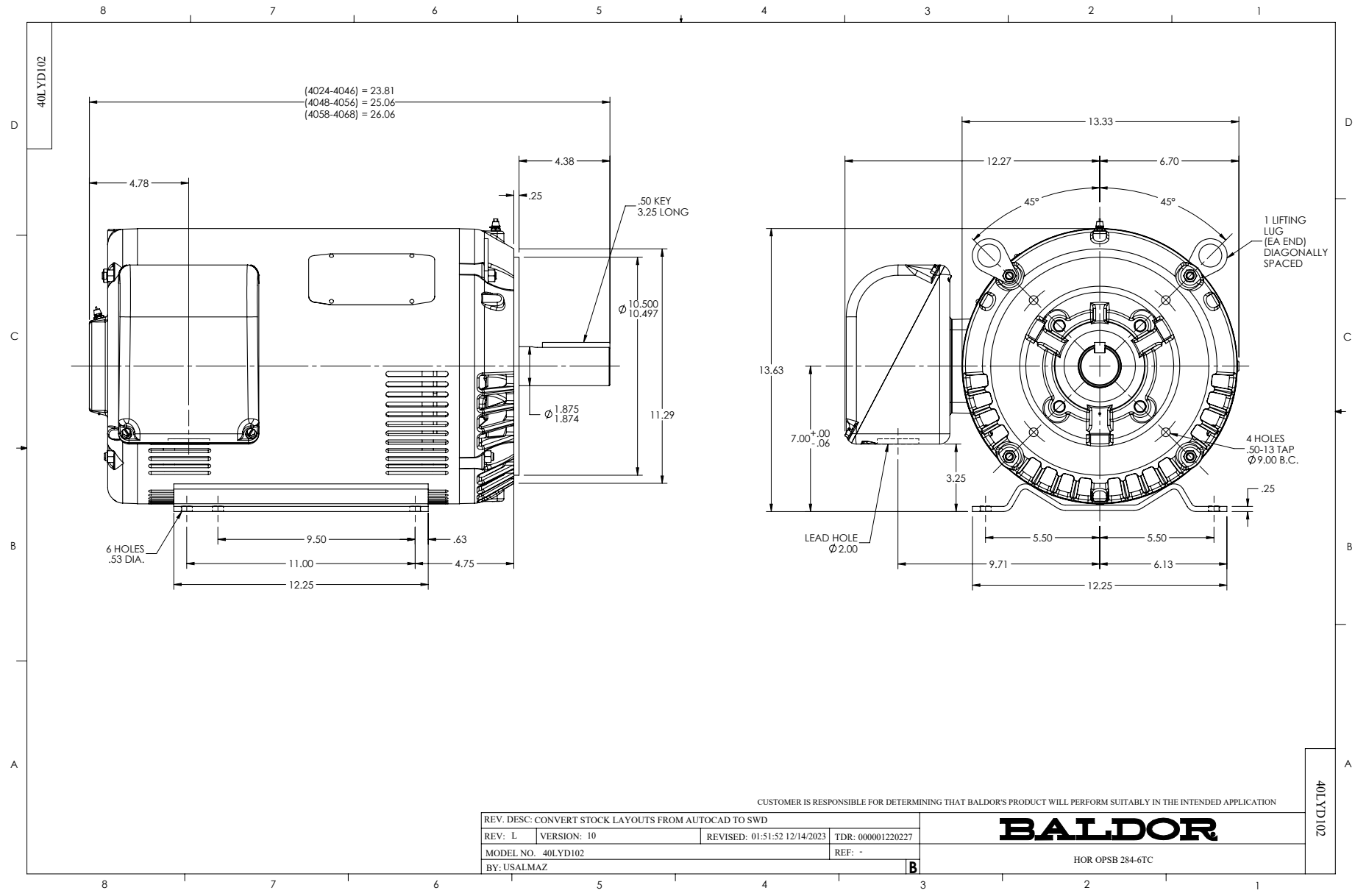
WINDING # 40WGX191

20 HP 3 PH 60 HZ 1180 RPM 460 V 4056M

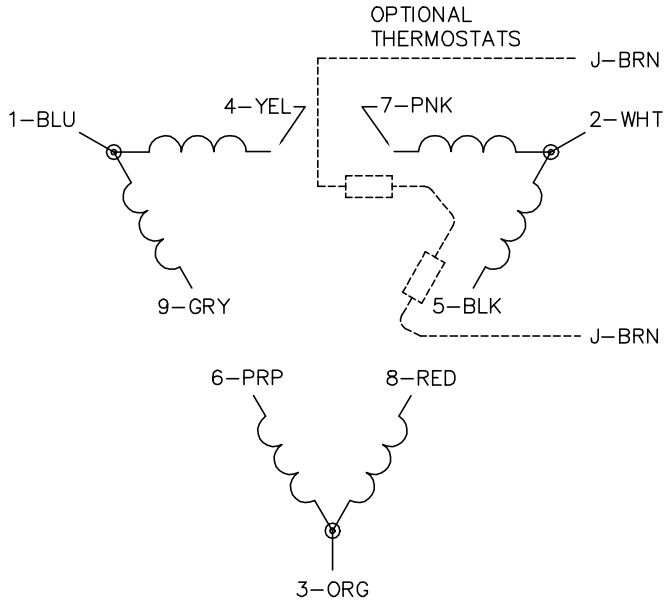
Typical performance - not guaranteed values.

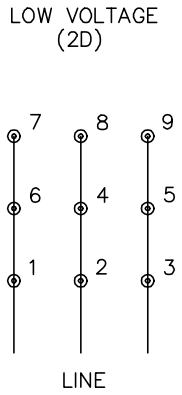
TORQUES(LB-FT): PO=291 PU=110 LR=160 LRA=177

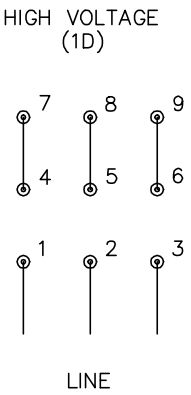



40LYD102
(4024-4046) = 23.81
(4048-4056) = 25.06
(4058-4068) = 26.06
4.78
4.38
.25
.50 KEY
3.25 LONG
Ø 10.500
10.497
Ø 1.875
1.874
11.29
6 HOLES
.53 DIA.
9.50
.63
11.00
4.75
12.25
13.33
12.27
6.70
45°
45°
1 LIFTING
LUG
(EA END)
DIAGONALLY
SPACED
13.63
7.00 +.00 -.06
3.25
4 HOLES
.50-13 TAP
Ø 9.00 B.C.
.25
LEAD HOLE
Ø 2.00
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: CONVERT STOCK LAYOUTS FROM AUTOCAD TO SWD
REV: L
VERSION: 10
REVISED: 01:51:52 12/14/2023
TDR: 000001220227
MODEL NO. 40LYD102
REF: -
BY: USALMAZ
B
BALDOR
HOR OPSB 284-6TC
40LYD102

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

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