ABB BALDOR RELIANCE

Customer information packet

EJMM2538T-G

46M 2P OPSB HOR 286JM SE

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Specifications

Enclosure	OPSB
Frame	286JM
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	NEMA PREMIUM
	CSA EEV
	CSA
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	100.000 A @ 208.0 V
	46.000 A @ 460.0 V
	92.000 A @ 230.0 V
Design Code	B
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	46.0 a

Part Detail

Revision	F
Type	AC
Mech. spec.	40E283
Base	
Status	PRD/A
Elec. spec.	40WGX194
Layout	40LYE283
Eff. date	12-11-2025
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	04-03-2019

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP23
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4046M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.69 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3530 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3554LUA												
CAT.NO.	EJMM2538T-G			**P/N**						**ENCL**	OPSB	
SPEC.	40E283X194G2	**CC**	010A	**FRAME**	286JM		**SER.NO.**					
HP	40		**CLASS**	H	**HZ**	60						
RPM	3530		**PH**	3	**DES**	B						
VOLTS	230/460			**CODE**	G		**ODE BRG**	6309	**DE BRG**	6312		
AMPS	92/46											
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	92.4		**GREASE**	POLYREX EM				
PF	89	**SER.F.**	1.15	**CT30-60(2:1) VT3-60(20:1)**								
USABLE AT	50HZ 40HP 190/380V 112/56A			SF1.0								
HTR-VOLTS	**HTR-AMPS**		**MAX. SPACE HEATER TEMP.**									

AC Induction Motor Performance Data
Record # 36100
Typical performance - not guaranteed values

Winding: 40WGX194-R002	**Type:** 4046M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			40	**Full Load Torque**	59.6 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			92/46	**Breakdown Torque**	207 LB-FT
R.P.M.			3530	**Pull-up Torque**	74.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	103 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	282 A
Service Factor (S.F.)			1.15	**No-load Current**	11.7 A
NEMA Nom. Eff.	92.4	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.1848 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	35°C
S.F. Amps				**Temp. Rise @ S.F. Load**	44°C
				Locked-rotor Power Factor	23.9
				Rotor inertia	1.97 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	66	82	88	89	90	90	90
Efficiency	91.4	93.7	93.7	93	92	90.7	92.4
Speed	3580.7	3565.4	3547.1	3527.4	3504.7	3481	3514
Line amperes	16.4	24.9	34.7	45.9	57	69.7	52.6

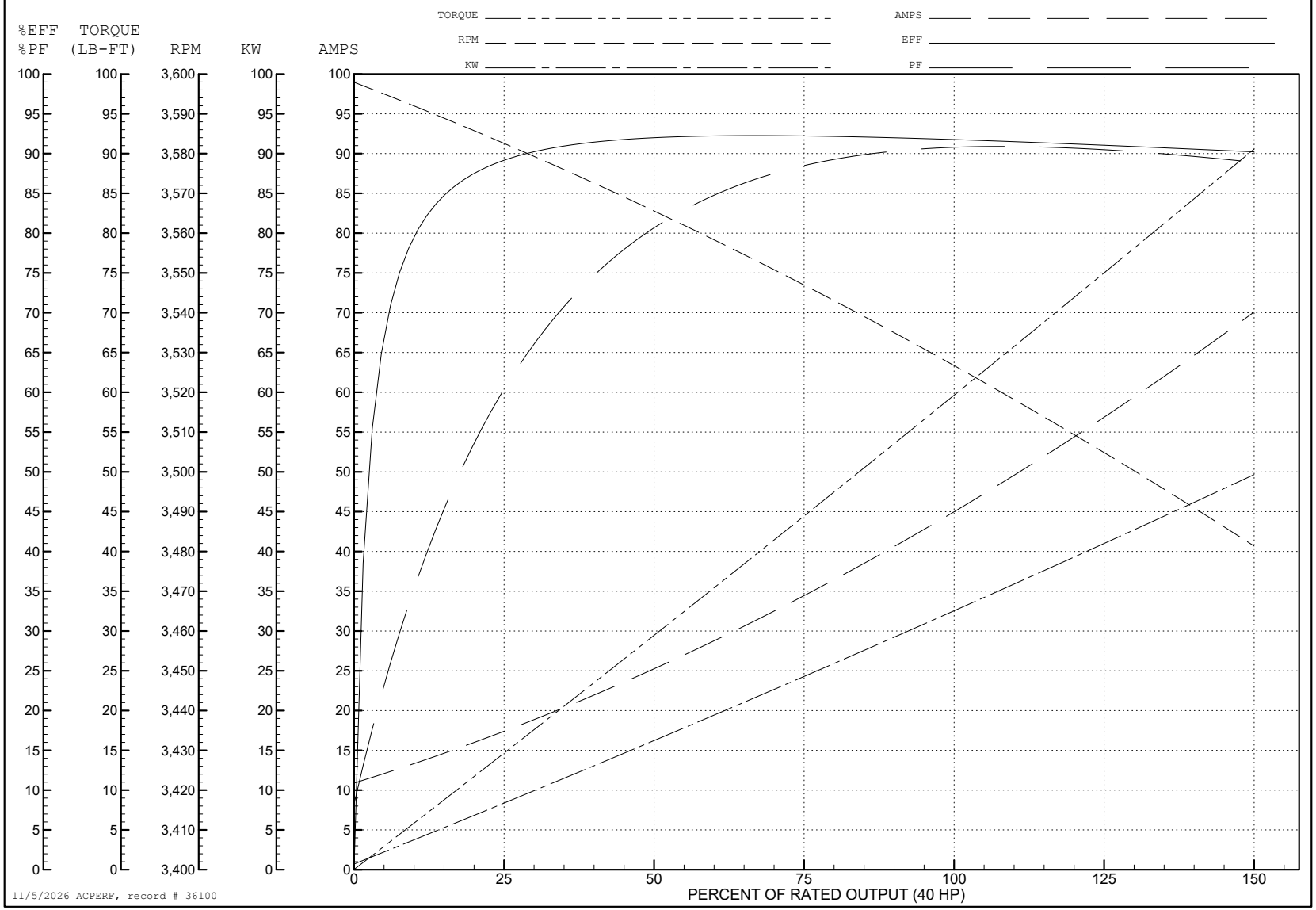
ABB Motors and Mechanical Inc.

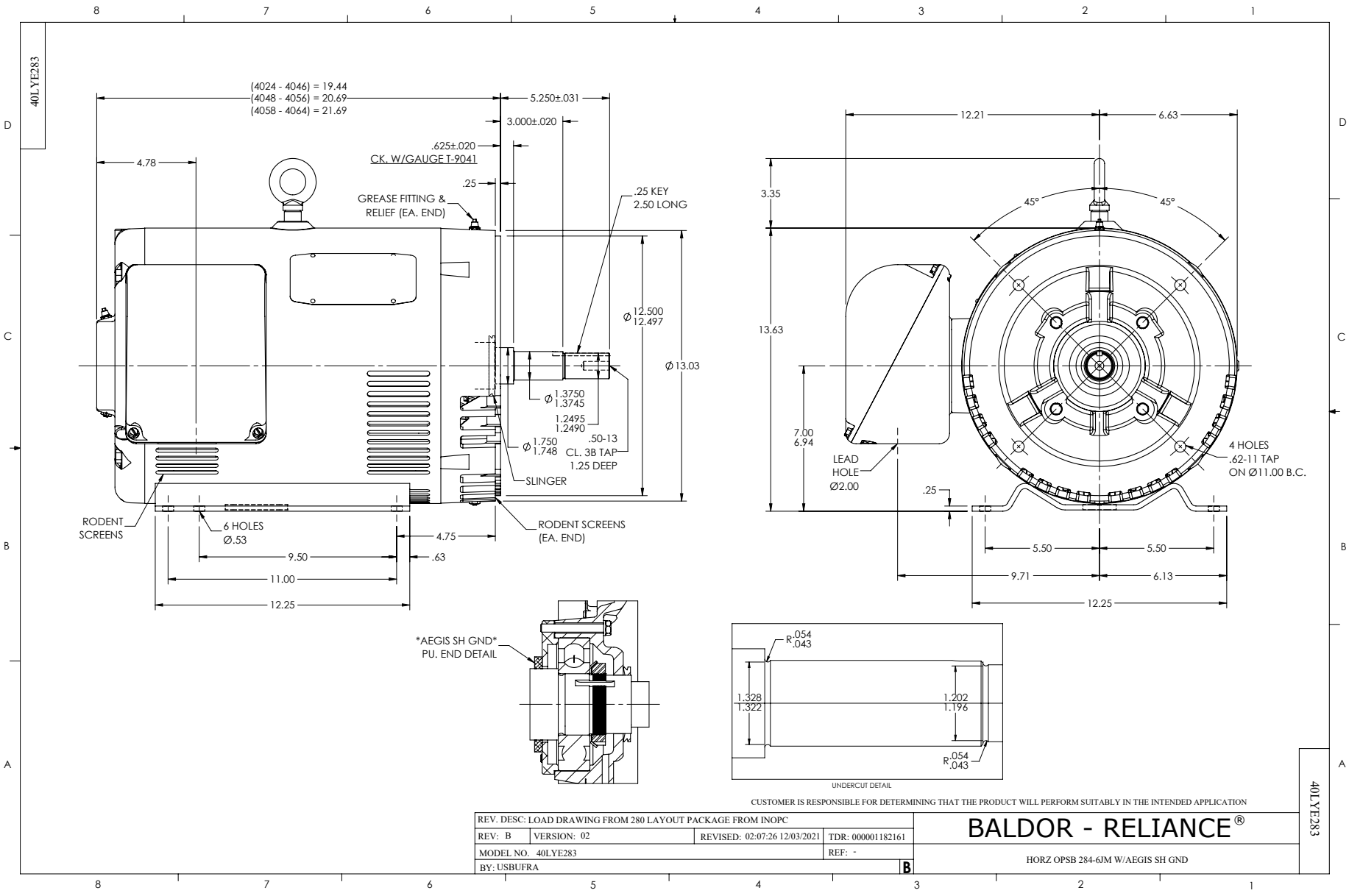
WINDING # 40WGX194

40 HP 3 PH 60 HZ 3530 RPM 460 V 4046M

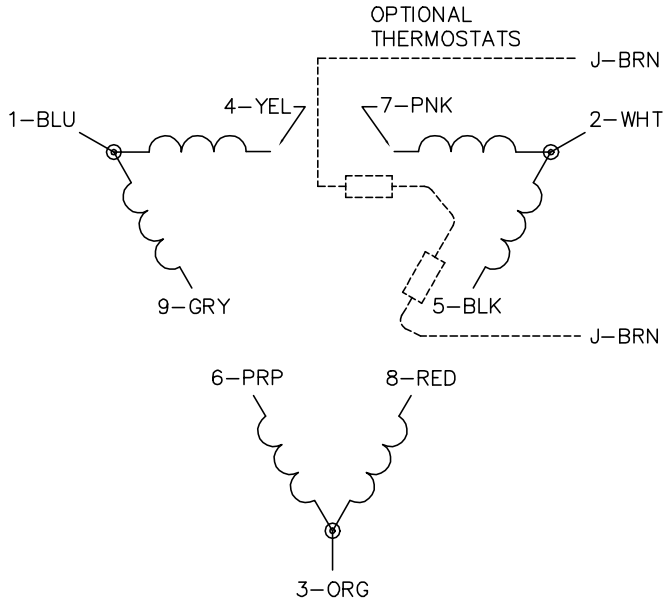
Typical performance - not guaranteed values.

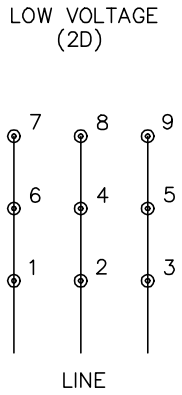
TORQUES(LB-FT): PO=207 PU=74.8 LR=103 LRA=282

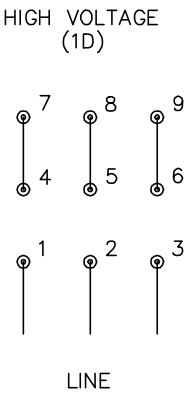



40LYE283
(4024 - 4046) = 19.44
(4048 - 4056) = 20.69
(4058 - 4064) = 21.69
5.250±.031
3.000±.020
.625±.020
CK. W/GAUGE T-9041
.25
4.78
GREASE FITTING & RELIEF (EA. END)
.25 KEY 2.50 LONG
Ø 12.500 12.497
Ø13.03
Ø 1.3750 1.3745
1.2495 1.2490
Ø 1.750 1.748
.50-13 CL. 3B TAP 1.25 DEEP
SLINGER
RODENT SCREENS
6 HOLES Ø.53
RODENT SCREENS (EA. END)
4.75
.63
9.50
11.00
12.25
12.21
6.63
3.35
45°
45°
13.63
7.00 6.94
LEAD HOLE Ø2.00
4 HOLES .62-11 TAP ON Ø11.00 B.C.
.25
5.50
5.50
9.71
6.13
12.25
AEGIS SH GND PU. END DETAIL
R.054 .043
1.328 1.322
1.202 1.196
R.054 .043
UNDERCUT DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING FROM 280 LAYOUT PACKAGE FROM INOPC
REV: B
VERSION: 02
REVISED: 02:07:26 12/03/2021
TDR: 000001182161
MODEL NO. 40LYE283
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ OPSB 284-6JM W/AEGIS SH GND
40LYE283

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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