

**BALDOR • RELIANCE**

---

# Customer information packet

## GNEM2528T

20HP//15KW, 1180//980RPM, 3PH, 60//50HZ, 286

## Specifications

Enclosure	OPSB
Frame	286T
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ 15.000 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 380.0 V @ 50 HZ 230.0 V @ 60 HZ 208.0 V @ 60 HZ 190.0 V @ 50 HZ
Agency Approvals	UKCA WEEE NEMA PREMIUM IE3 CURUSEEV CE
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	66.000 A @ 190.0 V 58.000 A @ 230.0 V 56.000 A @ 208.0 V 33.000 A @ 380.0 V 29.000 A @ 460.0 V
Design Code	A

## Part detail

Revision	-
Type	AC
Mech. spec.	40G48
Base	
Status	PRD/A
Elec. spec.	40WGX408
Layout	40LYG048
Eff. date	10-25-2023
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	09-19-2023

<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	92.4 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Feedback Device</b>	NO FEEDBACK
<b>Front Shaft Indicator</b>	None
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	29.0 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	K
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	9 @ 10 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	4060M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	6
<b>Overall Length</b>	26.06 IN
<b>Power Factor</b>	70
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.875 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1180 rpm 980 rpm

<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP4304L</b>									
<b>CAT.NO.</b>	GNEM2528T								
<b>SPEC.</b>	40G048X408G1								
<b>HP</b>	20HP//15KW				<b>PH</b>	3			
<b>VOLTS</b>	208-230/460//190/380								
<b>AMPS</b>	56-58/29//66/33								
<b>R.P.M. (1/MIN)</b>	1180//980				<b>WT.</b>	167KG		<b>KG</b>	
<b>FRAME</b>	286T		<b>HZ</b>	60//50		<b>I.P.</b>	22		
<b>SER.F.</b>	1.15	<b>CODE</b>	K	<b>DES.</b>	A	<b>CLASS</b>	F		
<b>NOM.EFF.</b>	92.4//91.2		<b>% (100%)</b>						
<b>P.F.</b>	70	IC01, 10:1 VT							
<b>RATING</b>	40C AMB-S1 CONT				<b>CC</b>	010A			
<b>DE</b>	6311		<b>ODE</b>	6309					
<b>ENCL</b>	OPSB	SN							
	SFA 64/32//74/37								
	IE3-50HZ 93.2 (75%),92.8 (50%)								
	IE3-60HZ 93.2 (75%),92.0 (50%)								

**AC Induction Motor Performance Data**

Record # 100993

Typical performance - not guaranteed values

<b>Winding: 40WGX408-R002</b>		<b>Type: 4060M</b>		<b>Enclosure: OPSB</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	20	<b>Full Load Torque</b>	88.52 LB-FT		
<b>Volts</b>	208-230/460//190/380	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	56-58/29//66/33	<b>Breakdown Torque</b>	330 LB-FT		
<b>R.P.M.</b>	1180//980	<b>Pull-up Torque</b>	124 LB-FT		
<b>Hz</b>	60//50 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	181 LB-FT	
<b>NEMA Design Code</b>	<b>A KVA Code</b>	K	<b>Starting Current</b>	201 A	
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	16.77 A		
<b>NEMA Nom. Eff.</b>	92.4 <b>Power Factor</b>	70	<b>Line-line Res. @ 25°C</b>	0.341 Ω	
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	29°C		
<b>S.F. Amps</b>	64/32//74/37	<b>Temp. Rise @ S.F. Load</b>	34°C		
		<b>Locked-rotor Power Factor</b>	30.4		
		<b>Rotor inertia</b>	7.35 lb-ft <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 20 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	30	50	62	70	75	77	73
<b>Efficiency</b>	87.2	92	93.2	93.3	92.9	92.2	93.1
<b>Speed</b>	1196	1193	1189	1185	1181	1176	1183
<b>Line amperes</b>	17.95	20.57	24.1	28.55	33.63	39.36	31.6

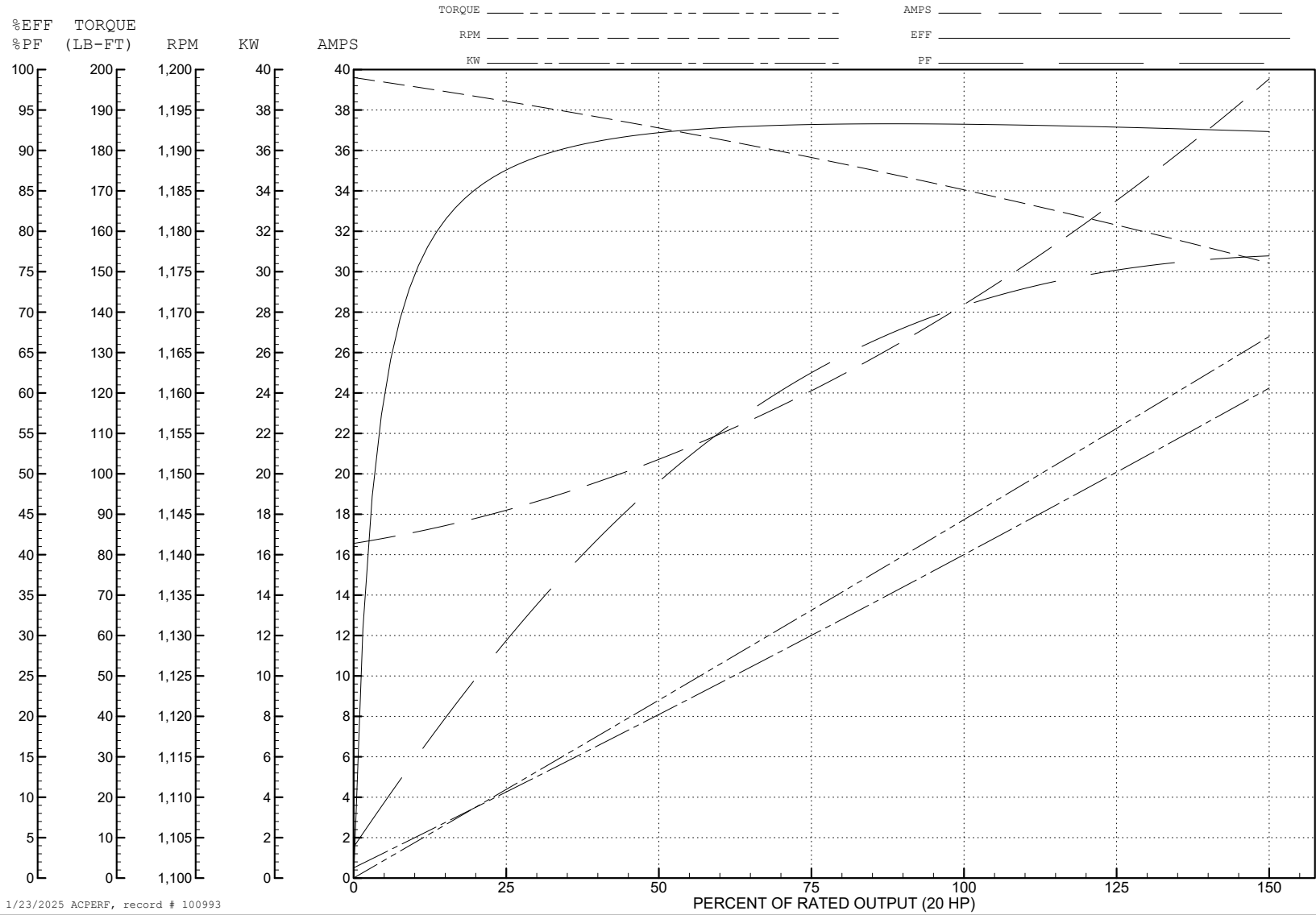
ABB Motors and Mechanical Inc.

WINDING # 40WGx408

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1185 RPM 460 V 4060M

TORQUES (LB-FT): PO=330 PU=124 LR=181 LRA=201



1/23/2025 ACPERF, record # 100993

**AC Induction Motor Performance Data**

Record # 100994

Typical performance - not guaranteed values

Winding: 40WGX408-R002		Type: 4060M	Enclosure: OPSB	
<b>Nameplate Data</b>			<b>380 V, 50 Hz: High Voltage Connection</b>	
Rated Output (HP)	20	Full Load Torque	107 LB-FT	
Volts	208-230/460//190/380	Start Configuration	direct on line	
Full Load Amps	56-58/29//66/33	Breakdown Torque	318 LB-FT	
R.P.M.	1180//980	Pull-up Torque	128 LB-FT	
Hz	60//50 Phase	Locked-rotor Torque	186 LB-FT	
NEMA Design Code	A KVA Code	Starting Current	195 A	
Service Factor (S.F.)	1.15	No-load Current	16.32 A	
NEMA Nom. Eff.	92.4 Power Factor	Line-line Res. @ 25°C	0.341 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	36°C	
S.F. Amps	64/32//74/37	Temp. Rise @ S.F. Load	44°C	
		Locked-rotor Power Factor	33.7	
		Rotor inertia	7.35 lb-ft <sup>2</sup>	

**Load Characteristics 380 V, 50 Hz, 20 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	57	69	75	78	80	77
Efficiency	89.4	92.8	93.2	92.7	91.9	90.6	92.2
Speed	996	992	987	983	978	971	980
Line amperes	17.89	21.53	26.41	32.45	39.28	47.11	36.5



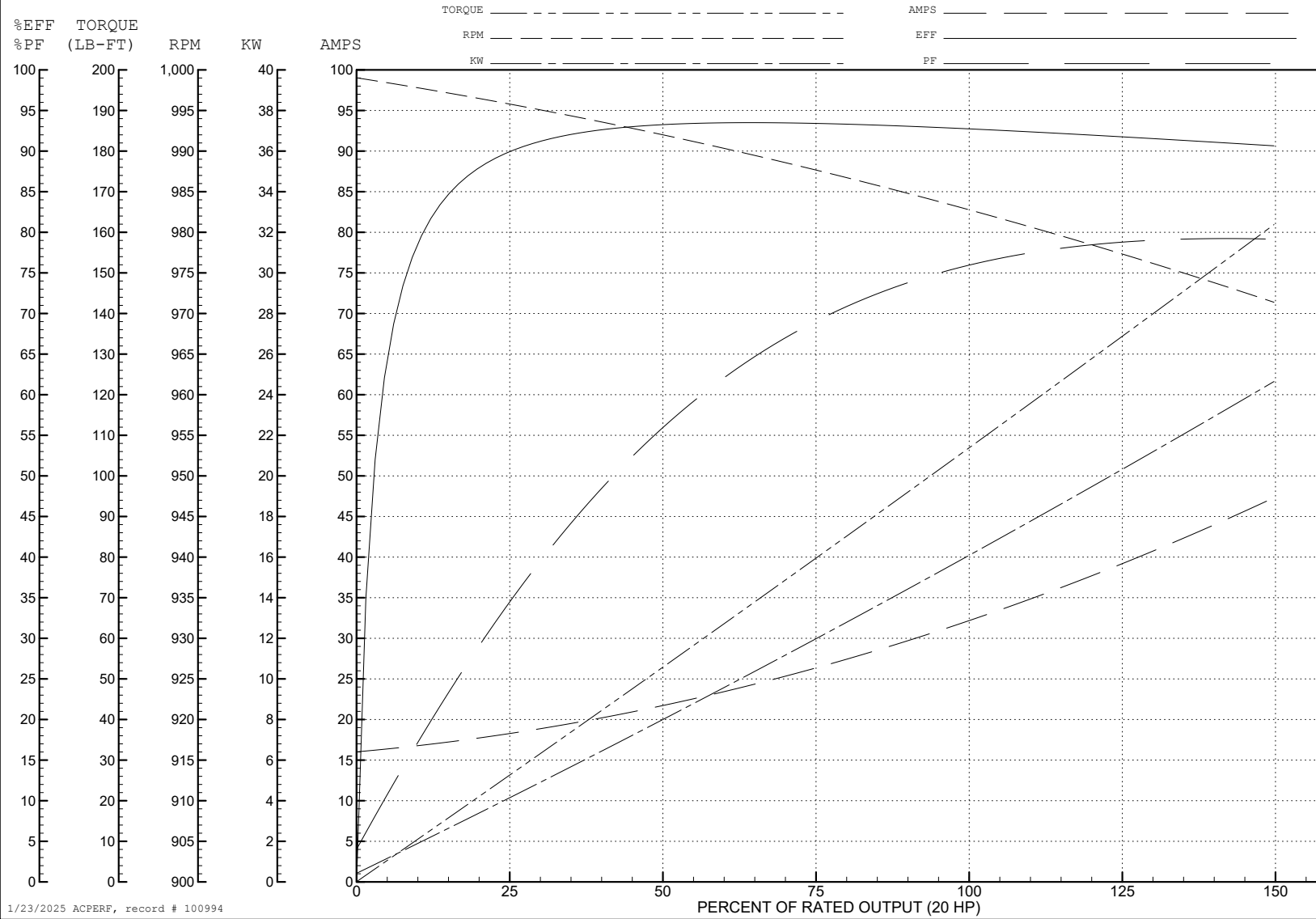
ABB Motors and Mechanical Inc.

WINDING # 40WGx408

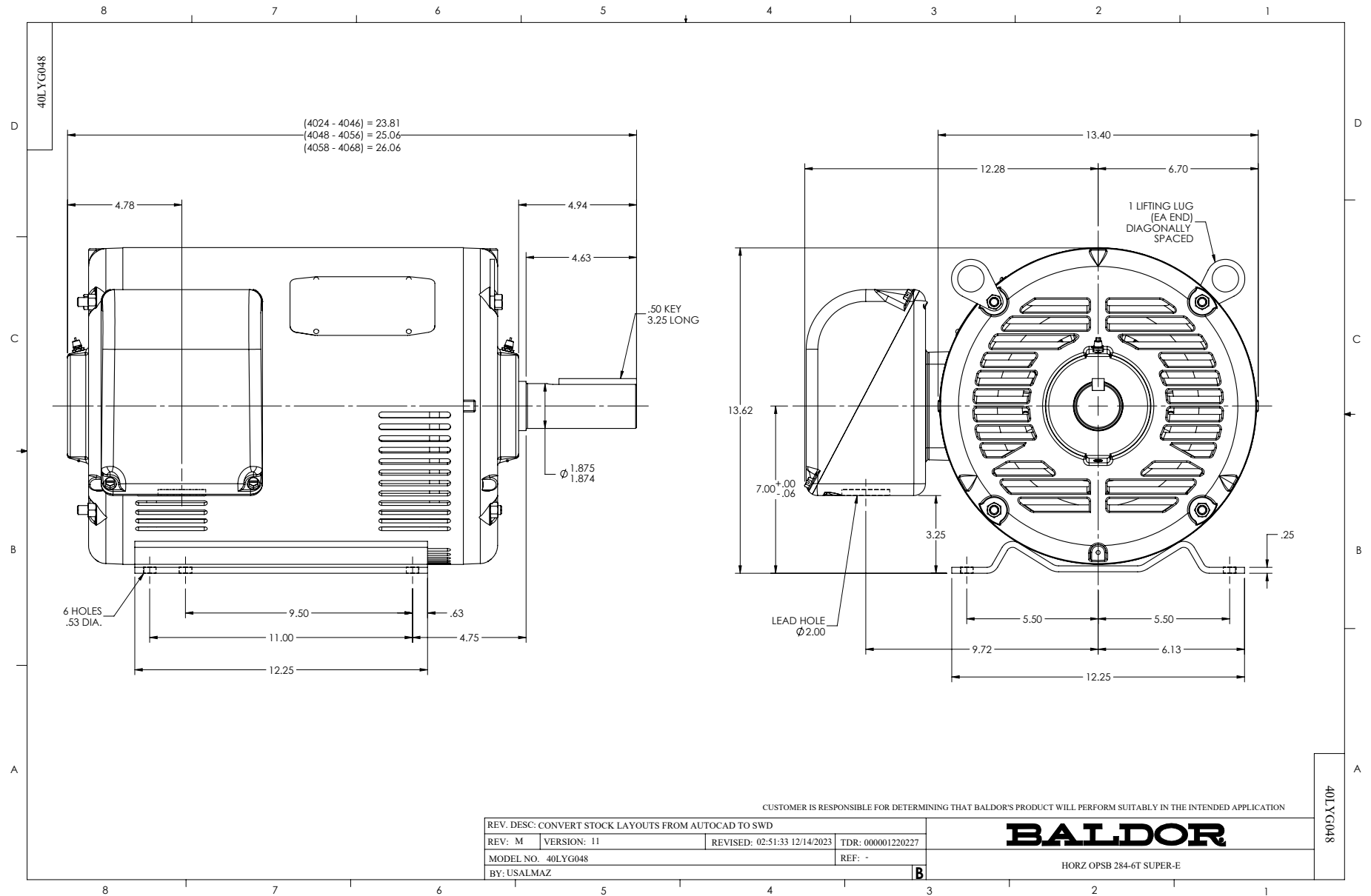
20 HP 3 PH 50 HZ 983 RPM 380 V 4060M

Typical performance - not guaranteed values.

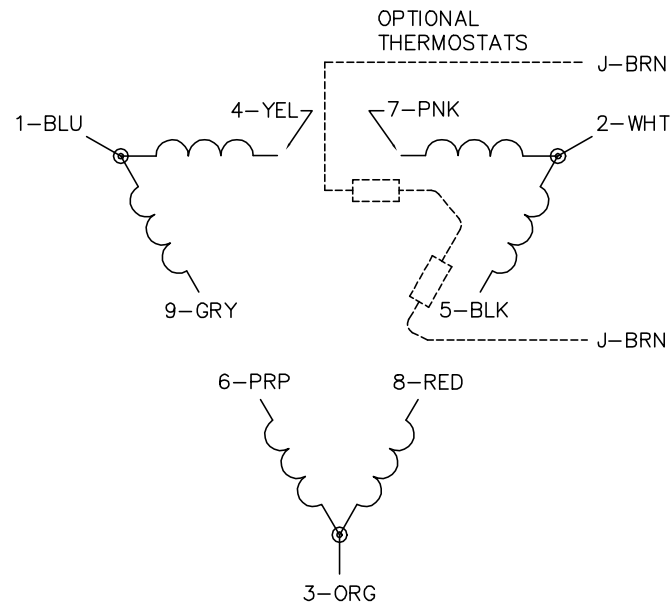
TORQUES (LB-FT): PO=318 PU=128 LR=186 LRA=195



1/23/2025 ACPERF, record # 100994



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
FILE: \AAA\00005\148	REVISED: 10: 25: 29 02/19/2019	BY: ENBRIRO
MTL: -	© □	

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1