

ABB BALDOR RELIANCE III

Customer information packet

GNEM2528T-G

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
Auxiliary Box	NO AUXILLARY BOX
Auxiliary 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

Part Detail

Revision	B
Type	AC
Mech. spec.	40E246
Base	
Status	PRD/A
Elec. spec.	40WGX408
Layout	40LYE246
Eff. date	07-20-2026
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	09-19-2023

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	29.0 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
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	4060M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	26.06 IN
Power Factor	70
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 rpm

	980 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

NP4304L									
CAT.NO.	GNEM2528T-G								
SPEC.	40E246X408G1								
HP	20HP//15KW					PH	3		
VOLTS	208-230/460//190/380								
AMPS	56-58/29//66/33								
R.P.M. (1/MIN)	1180//980					WT.	167KG		KG
FRAME	286T		HZ	60//50		I.P.	22		
SER.F.	1.15	CODE	K	DES.	A	CLASS	H		
NOM.EFF.	92.4//91.2		% (100%)						
P.F.	70	IC01, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6311		ODE	6309					
ENCL	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 # 102719

Typical performance - not guaranteed values

Winding: 40WGX408-R003				Type: 4060M		Enclosure: OPSB	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		20HP//15KW		Full Load Torque		88.52 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		56-58/29//66/33		Breakdown Torque		330 LB-FT	
R.P.M.		1180//980		Pull-up Torque		124 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		181 LB-FT	
NEMA Design Code		A	KVA Code	K	Starting Current		201 A
Service Factor (S.F.)		1.15		No-load Current		16.77 A	
NEMA Nom. Eff.		92.4	Power Factor	70	Line-line Res. @ 25°C		0.341 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		29°C	
S.F. Amps		64/32//74/37		Temp. Rise @ S.F. Load		34°C	
				Locked-rotor Power Factor		30.4	
				Rotor inertia		7.35 lb-ft²	

Load Characteristics 460 V, 60 Hz, 20 HP

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

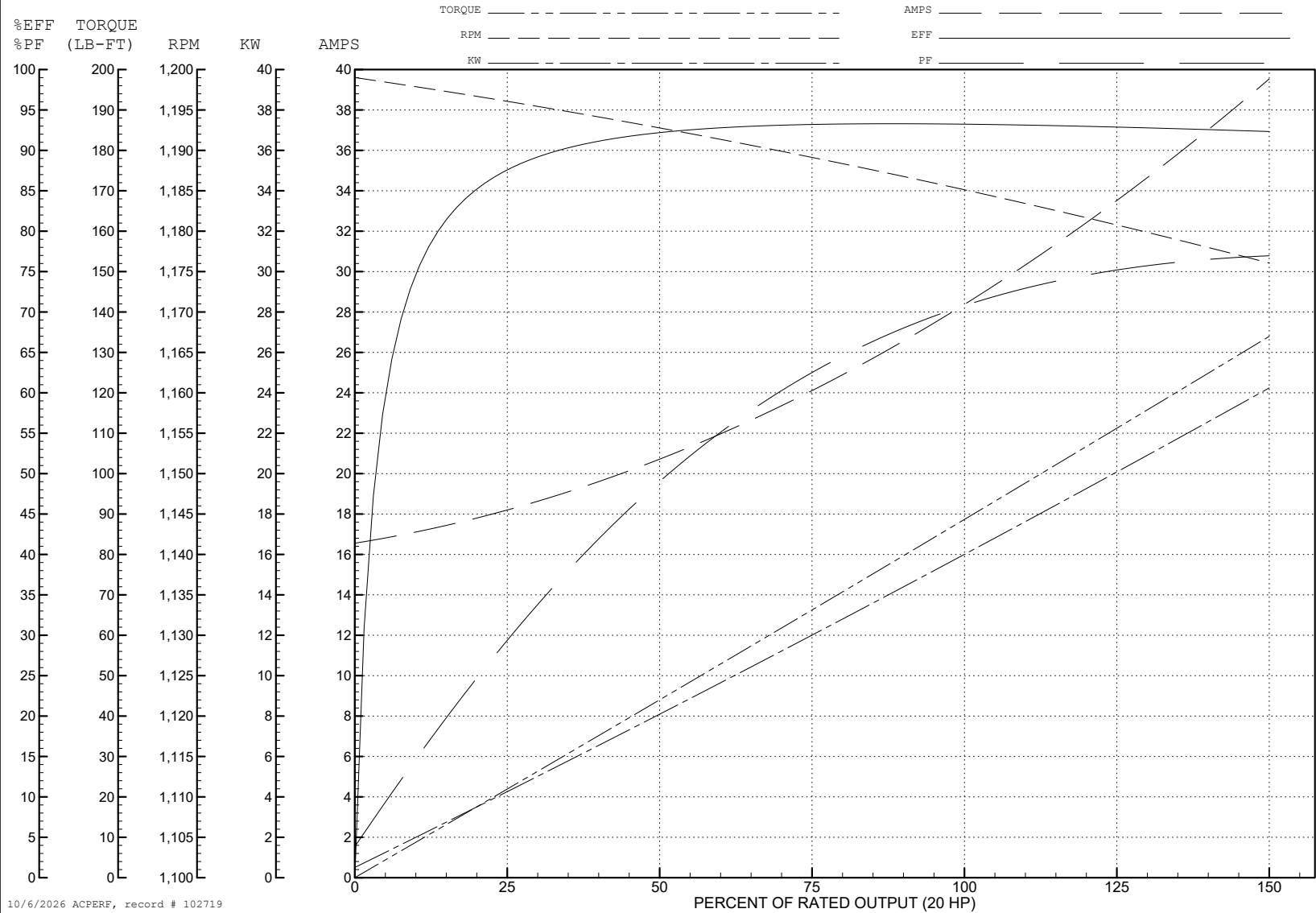
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WINDING # 40WGX408

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



AC Induction Motor Performance Data

Record # 102720

Typical performance - not guaranteed values

Winding: 40WGX408-R003				Type: 4060M		Enclosure: OPSB			
Nameplate Data				380 V, 50 Hz: High Voltage Connection					
Rated Output (HP)		20HP//15KW		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		3		Locked-rotor Torque		186 LB-FT	
NEMA Design Code		A		KVA Code		K		Starting Current	195 A
Service Factor (S.F.)		1.15		No-load Current		16.32 A			
NEMA Nom. Eff.		92.4		Power Factor		70		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-ft²			

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

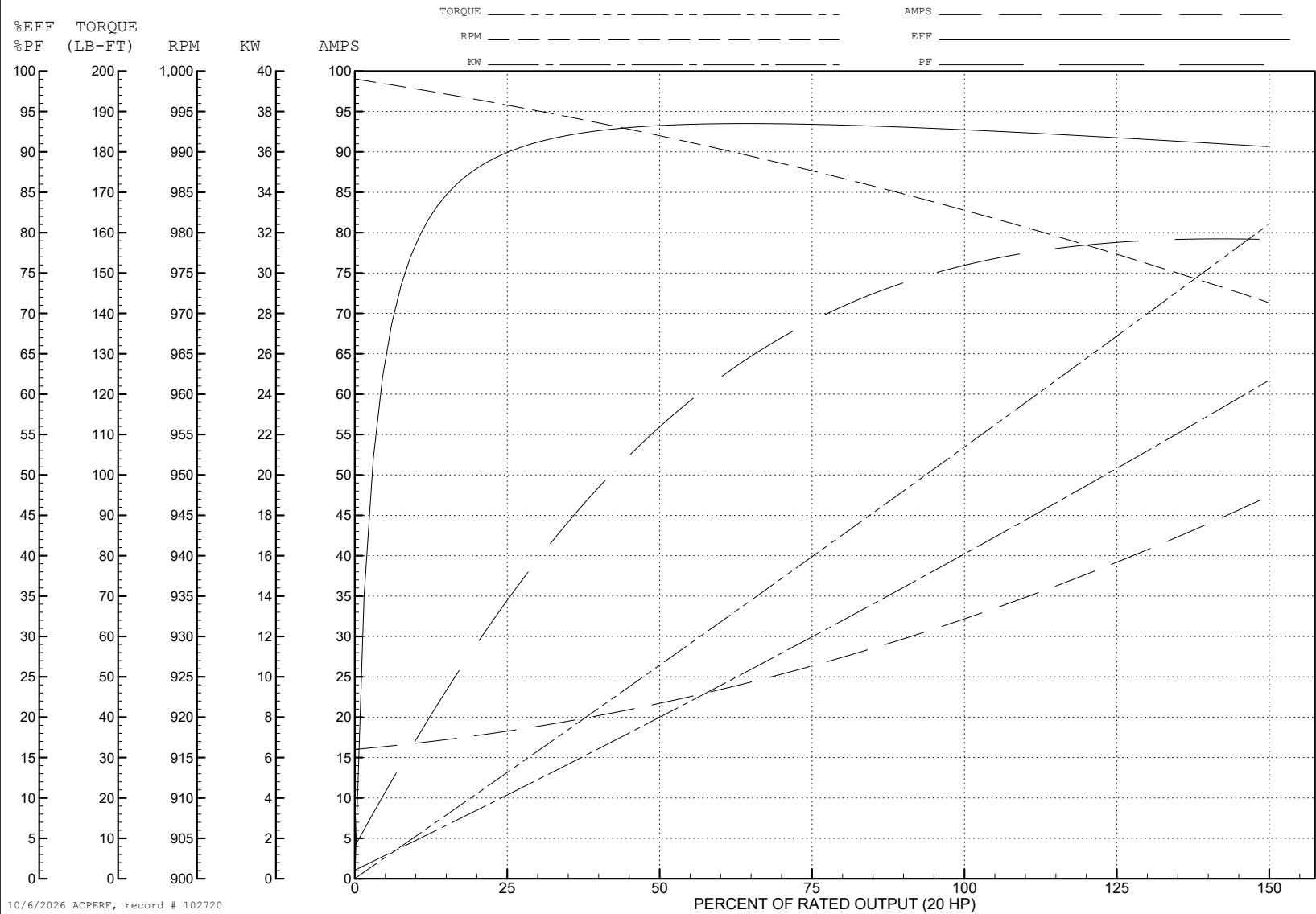
ABB Motors and Mechanical Inc.

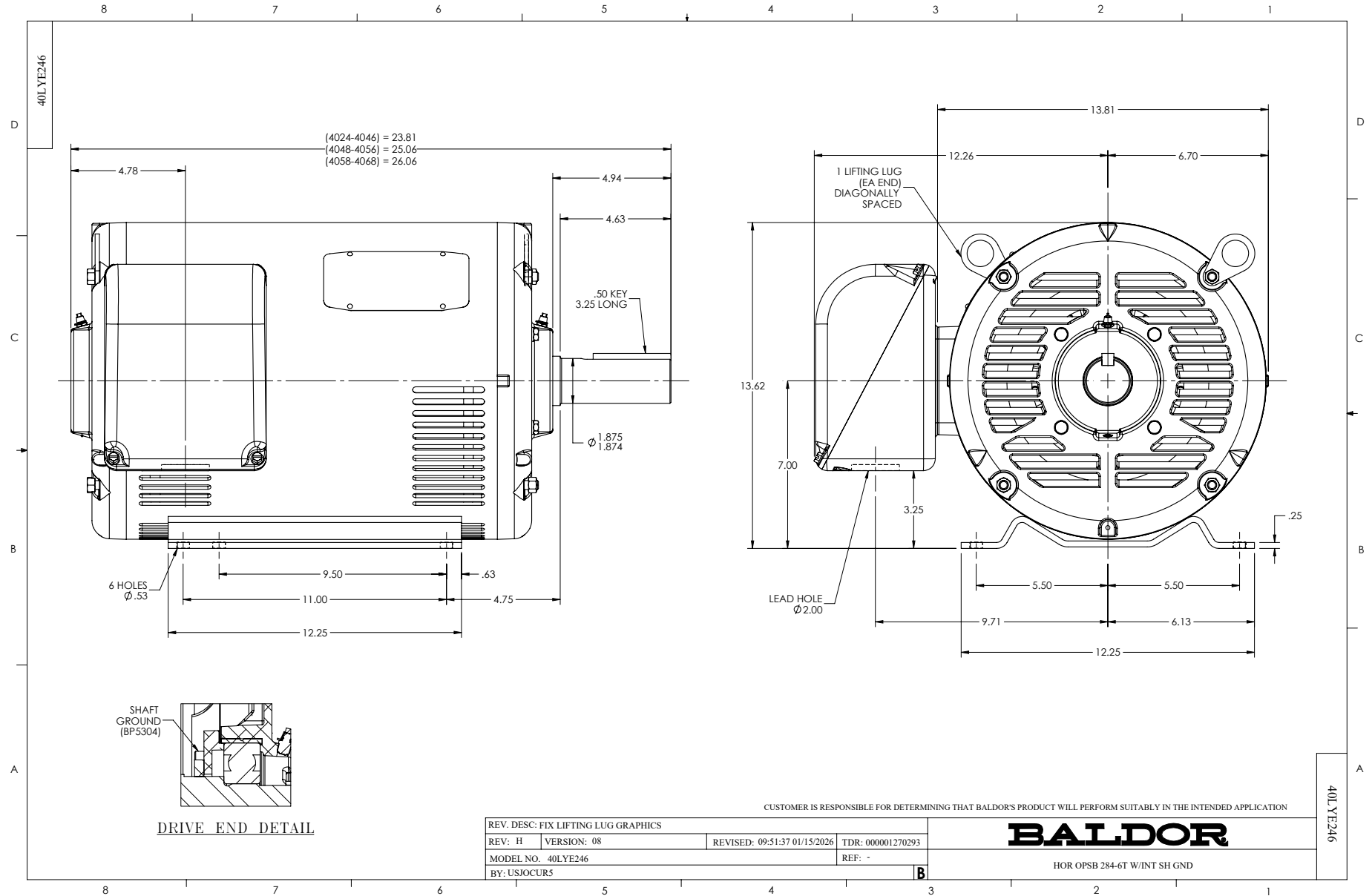
WINDING # 40WGx408

Typical performance - not guaranteed values.

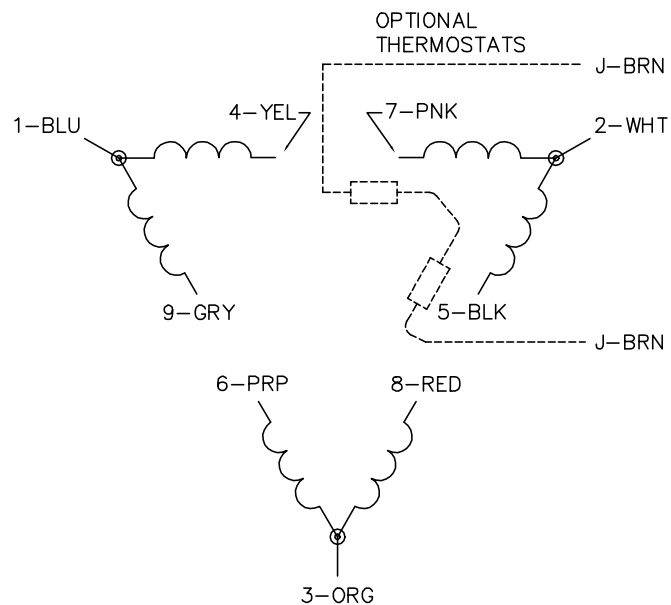
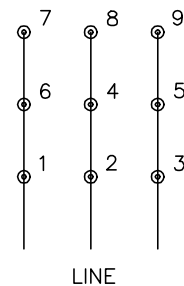
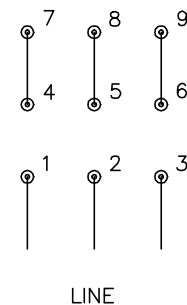
20 HP 3 PH 50 HZ 983 RPM 380 V 4060M

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





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

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