

ABB BALDOR RELIANCE III

Customer information packet

GNEM2334T

20HP//15KW, 1770//1465RPM, 3PH, 60//50HZ, 25

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	256T
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ 15.000 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	WEEE UKCA NEMA PREMIUM (OLD LOGO) 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	58.000 A @ 190.0 V 52.000 A @ 208.0 V

Part Detail

Revision	A
Type	AC
Mech. spec.	09P11
Base	
Status	PRD/A
Elec. spec.	09WGT459
Layout	09LYP011
Eff. date	11-14-2023
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	09-08-2023

48.000 A @ 230.0 V

29.000 A @ 380.0 V

24.000 A @ 460.0 V

Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	24.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.36 IN
Power Factor	83
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	1.625 IN
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1465 rpm
	1770 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.	GNEM2334T								
SPEC.	09P011T459G7								
HP	20HP//15KW						PH	3	
VOLTS	208-230/460//190/380								
AMPS	52-48/24//58/29								
R.P.M. (1/MIN)	1770//1465						WT.	145KG	KG
FRAME	256T		HZ	60//50			I.P.	54	
SER.F.	1.15	CODE	J	DES.	A	CLASS	F		
NOM.EFF.	93//92.1		% (100%)						
P.F.	83	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT				CC	010A			
DE	6309		ODE	6208					
ENCL	TEFC	SN							
	SFA 60-54/27//66/33								
	IE3-50HZ 93.8(75%),93.6 (50%)								
	IE3-60HZ 93.7(75%),93.0(50%)								

AC Induction Motor Performance Data

Record # 101161

Typical performance - not guaranteed values

Winding: 09WGT459-R041			Type: 0960M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		20HP//15KW		Full Load Torque		59.27 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		52-48/24//58/29		Breakdown Torque		232 LB-FT	
R.P.M.		1770//1465		Pull-up Torque		126 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		141 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		198 A
Service Factor (S.F.)		1.15		No-load Current		10.4 A	
NEMA Nom. Eff.		93	Power Factor	83	Line-line Res. @ 25°C		0.33814 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		58°C	
S.F. Amps		60-54/27//66/33		Temp. Rise @ S.F. Load		70°C	
				Locked-rotor Power Factor		27	
				Rotor inertia		2.65 lb-ft²	

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	78	83	86	87	85
Efficiency	89.2	93	93.7	93.6	93.1	92.4	93.3
Speed	1793.2	1786.4	1779.1	1771.9	1763.7	1755.3	1767
Line amperes	11.8	15	19.2	24	29.3	34.9	27.2

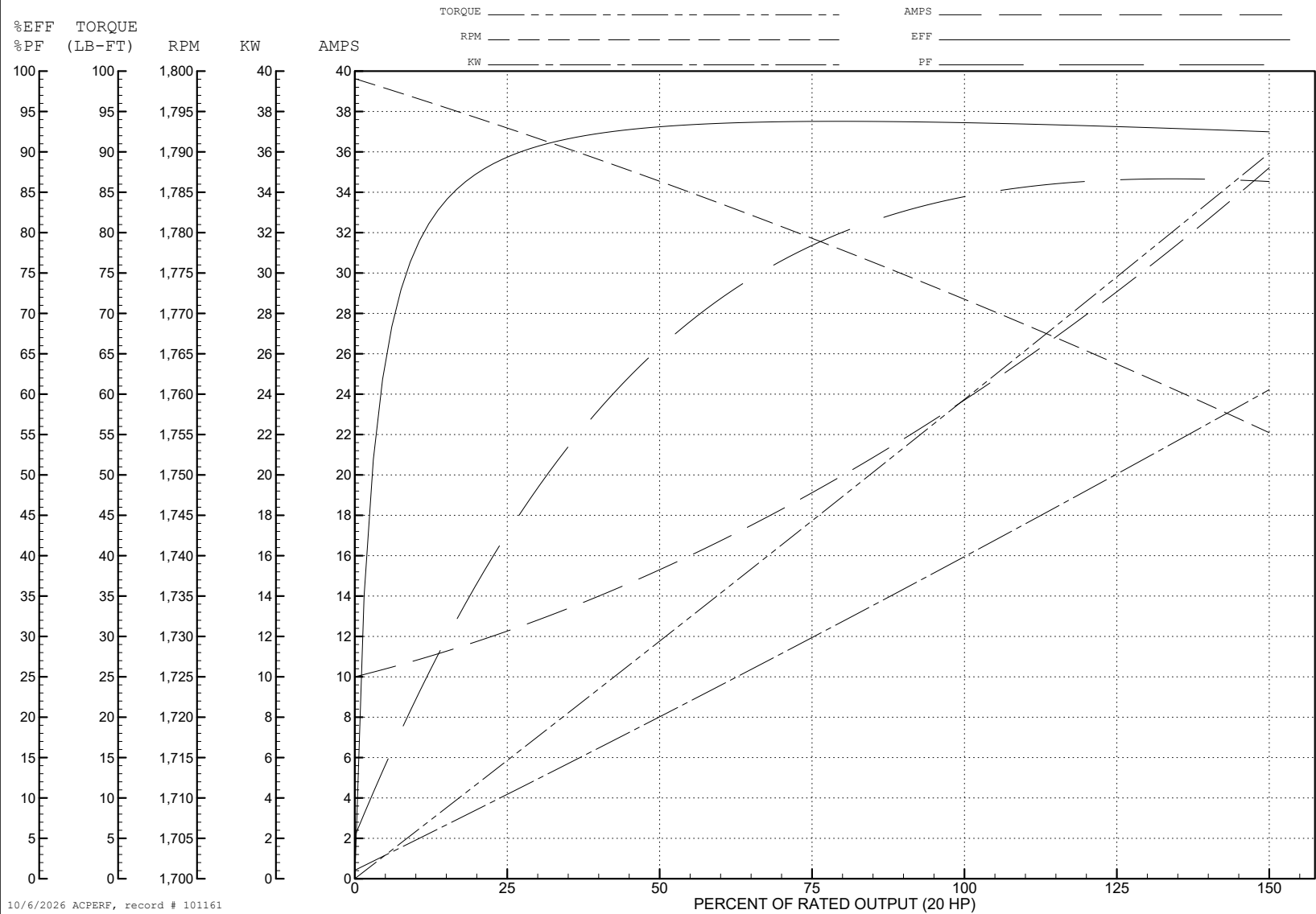
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WINDING # 09WGT459

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 1771.9 RPM 460 V 0960M

TORQUES (LB-FT): PO=232 PU=126 LR=141 LRA=198



AC Induction Motor Performance Data

Record # 101162

Typical performance - not guaranteed values

Winding: 09WGT459-R041				Type: 0960M		Enclosure: TEFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		20HP//15KW		Full Load Torque		71.55 LB-FT	
Volts		208-230/460//190/380		Start Configuration		direct on line	
Full Load Amps		52-48/24//58/29		Breakdown Torque		224 LB-FT	
R.P.M.		1770//1465		Pull-up Torque		130 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		146 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		193 A
Service Factor (S.F.)		1.15		No-load Current		10.15 A	
NEMA Nom. Eff.		93	Power Factor	83	Line-line Res. @ 25°C		0.332 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		72°C	
S.F. Amps		60-54/27//66/33		Temp. Rise @ S.F. Load		90°C	
				Locked-rotor Power Factor		30	
				Rotor inertia		2.65 LB-FT2	

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	51	72	81	85	86	87	85
Efficiency	91.7	93.6	93.8	93.1	92	90.6	93.3
Speed	1492	1484	1475	1467	1456	1445	1767
Line amperes	12.31	16.78	22.38	28.65	35.7	43.41	27.2

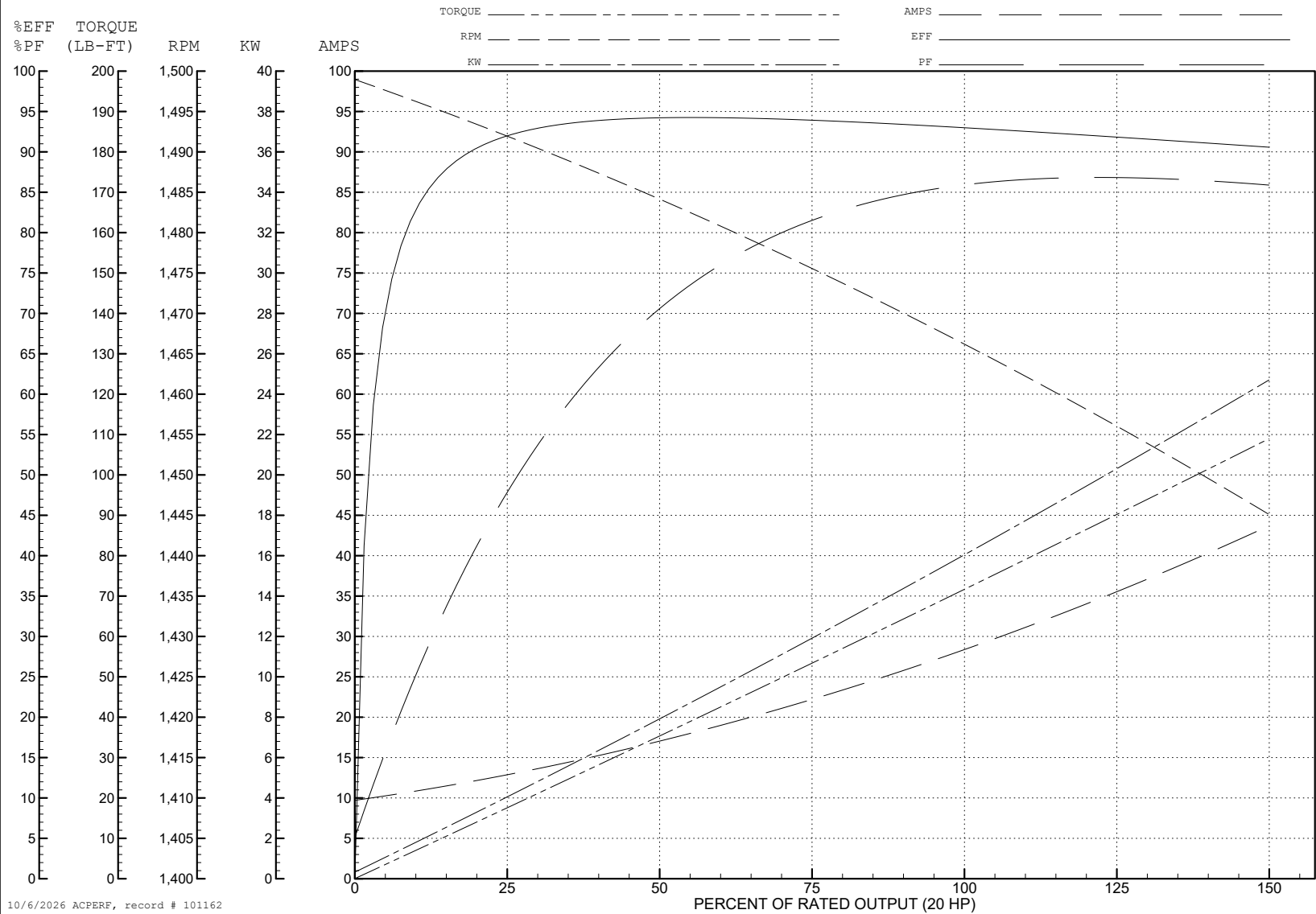
ABB Motors and Mechanical Inc.

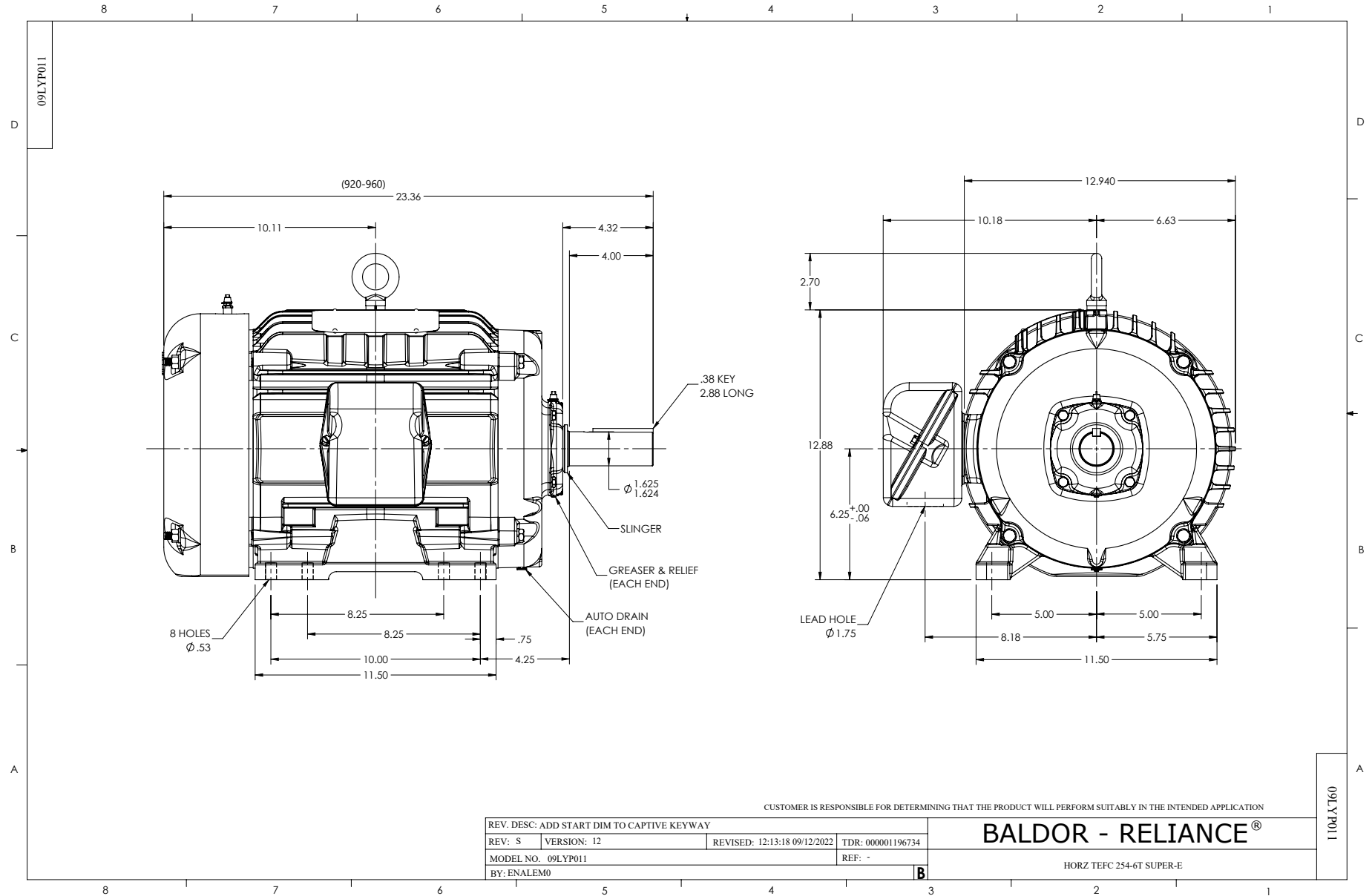
WINDING # 09WGT459

Typical performance - not guaranteed values.

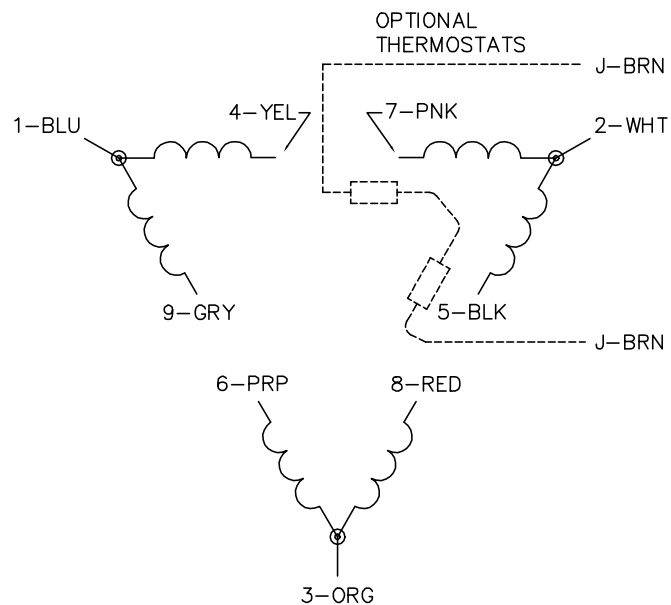
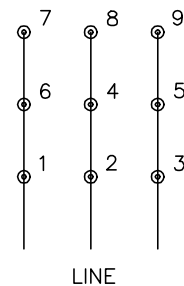
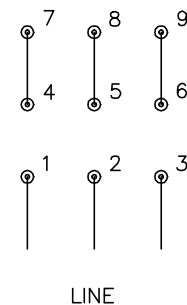
20 HP 3 PH 50 HZ 1467 RPM 380 V 0960M

TORQUES (LB-FT): PO=224 PU=130 LR=146 LRA=193





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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