

ABB BALDOR RELIANCE III

Customer information packet

EMM2334

15KW, 1770RPM, 3PH, 60HZ, D160L, 0960M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	D160L
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 KW @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	UR 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	25.000 A @ 460.0 V 50.000 A @ 230.0 V 52.000 A @ 208.0 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
Frame Prefix	D
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AC
Type	AC
Mech. spec.	09E142
Base	
Status	PRD/A
Elec. spec.	09WGZ571
Layout	09LYE142
Eff. date	10-07-2025
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	03-22-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	25.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	0960M
Mounting Arrangement	B3
Number of Poles	4
Overall Length	23.63 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.654 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	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

NP1159L									
CAT.NO.	EMM2334								
SPEC.	09E142Z571G1								
IEC FRAME	D160L	KW		15					
VOLTS	230/460								
AMP	50/25								
RPM	1770			ENCL			TEFC		
HZ	60		PH		3	CL		F	
SER.F.	1.15		DES		A	CODE		H	
NEMA-NOM-EFF	93	I.P.	54						
RATING	40C AMB-CONT								
CC	010A								
DE	6309	ODE	6208						
SER. #									

AC Induction Motor Performance Data

Record # 30679

Typical performance - not guaranteed values

Winding: 09WGZ571-R001			Type: 0960M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (KW)		15	Full Load Torque		59.1 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		50/25	Breakdown Torque		218 LB-FT	
R.P.M.		1770	Pull-up Torque		76.9 LB-FT	
Hz	60 Phase	3	Locked-rotor Torque		118 LB-FT	
NEMA Design Code		A	KVA Code		H	
Service Factor (S.F.)		1.15	Starting Current		167 A	
NEMA Nom. Eff.		93	Power Factor		81	
Rating - Duty		40C AMB-CONT	Line-line Res. @ 25°C		0.335 Ω	
S.F. Amps			Temp. Rise @ Rated Load		61°C	
			Temp. Rise @ S.F. Load		73°C	
			Locked-rotor Power Factor		31.8	
			Rotor inertia		2.62 LB-FT2	

Load Characteristics 460 V, 60 Hz, 15 KW

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	41	64	75	81	86	85	84
Efficiency	87.3	92	93	93.1	92.8	91.6	92.9
Speed	1792	1785	1779	1772	1765	1754	1768
Line amperes	12.8	15.8	20.1	24.7	29.6	37.2	27.6

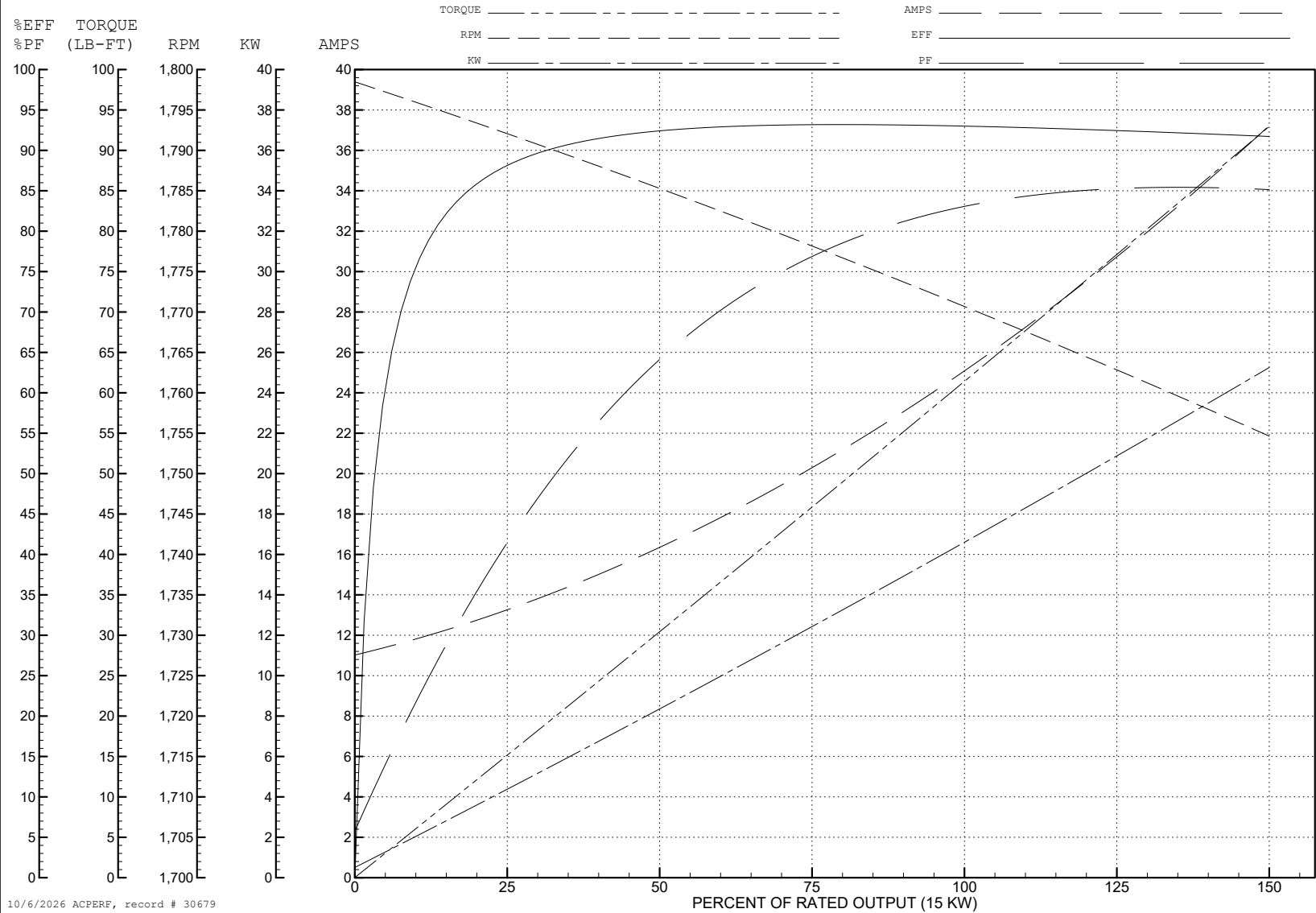
ABB Motors and Mechanical Inc.

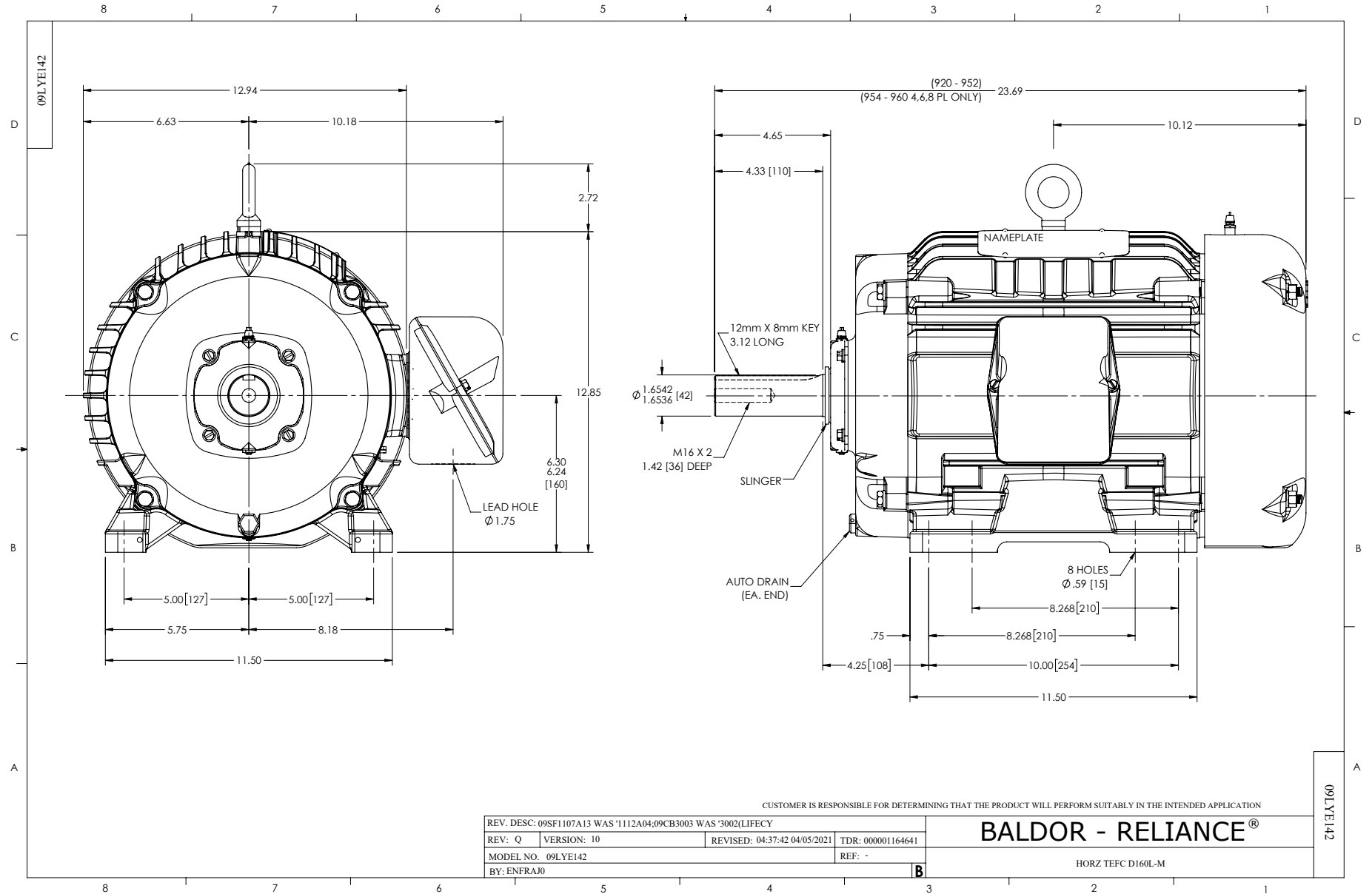
WINDING # 09WGZ571

Typical performance - not guaranteed values.

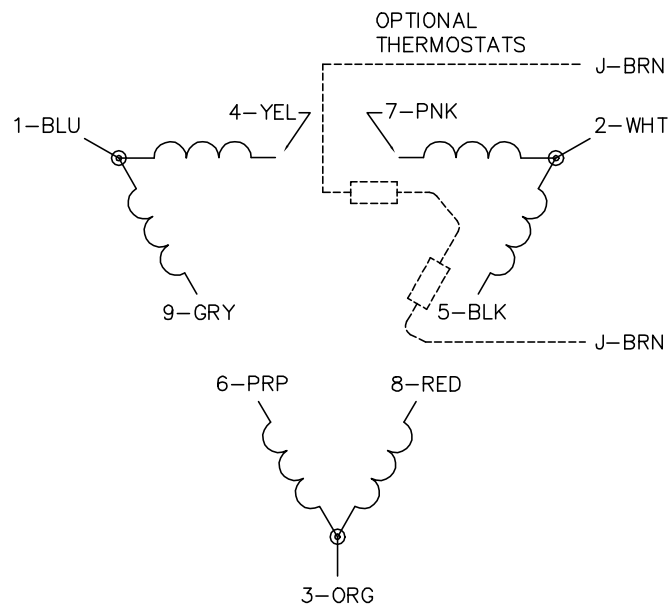
15 KW 3 PH 60 HZ 1770 RPM 460 V 0960M

TORQUES (LB-FT): PO=218 PU=76.9 LR=118 LRA=167

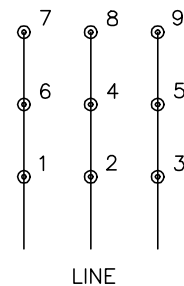




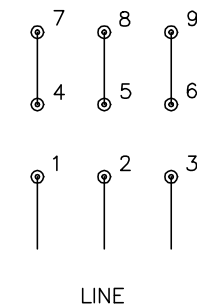
CD0180



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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