ABB BALDOR RELIANCE

Customer information packet

ERM3158TA

3HP, 3450RPM, 3PH, 60HZ, 56HZ, 3530M, OPEN, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/22/2026 3:04:50 AM

Specifications

Enclosure	OPEN
Frame	145TY
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	7.600 A @ 230.0 V
	8.000 A @ 208.0 V
	3.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None

Part Detail

Revision	Q
Type	AC
Mech. spec.	35J829
Base	
Status	PRD/A
Elec. spec.	35WGP988
Layout	35LYJ829
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	07-02-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	3.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.64 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use Eve-Not Valiid
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload

Winding Thermal 2	None

Nameplate

NP1259L										
CAT.NO.	ERM3158TA									
SPEC.	35J829P988G1									
HP	3									
VOLTS	230/460									
AMP	7.6/3.8									
RPM	3450									
FRAME	143TY	**HZ**	60				**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	F			
NEMA-NOM-EFF	85.5	**PF**	87							
RATING	40C AMB-CONT									
CC	010A									
DE	6205	**ODE**	6203							
ENCL	OPEN	**SN**								

AC Induction Motor Performance Data
Record # 59451
Typical performance - not guaranteed values

Winding: 35WGP988-R004	**Type:** 3530M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			7.6/3.8	**Breakdown Torque**	18.1 LB-FT
R.P.M.			3450	**Pull-up Torque**	11.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	15.1 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	32.5 A
Service Factor (S.F.)			1.15	**No-load Current**	1.55 A
NEMA Nom. Eff.	85.5	**Power Factor**	87	**Line-line Res. @ 25ºC**	5.8893 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	33°C
S.F. Amps				**Temp. Rise @ S.F. Load**	40°C
				Locked-rotor Power Factor	57.8
				Rotor inertia	0.0822 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	72	82	87	90	91	89
Efficiency	76.1	84.3	86	85.8	84.7	83	85.1
Speed	3569.1	3541.6	3510.6	3478.3	3442.7	3400.2	3457
Line amperes	1.77	2.29	2.97	3.73	4.58	5.53	4.24

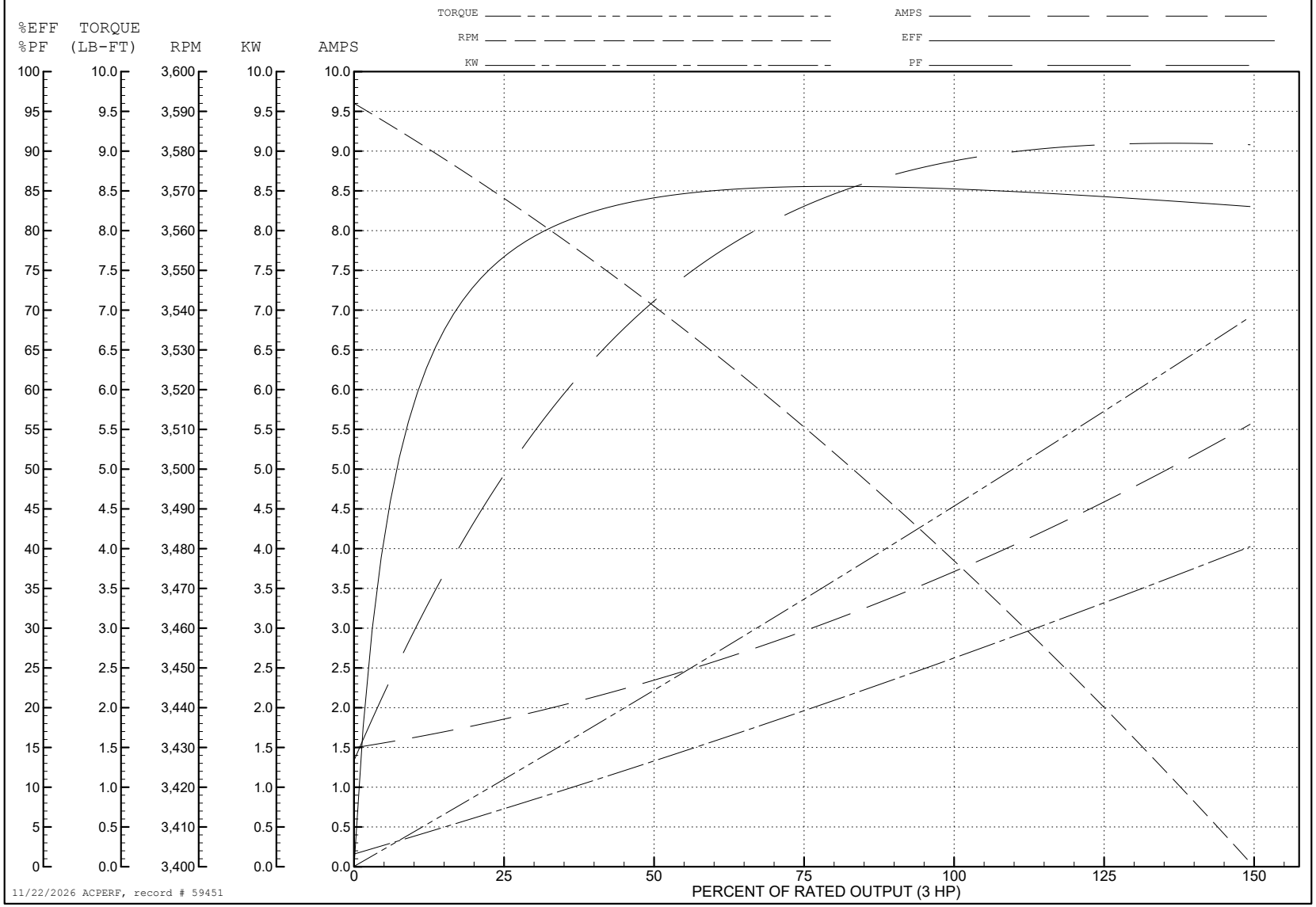
ABB Motors and Mechanical Inc.

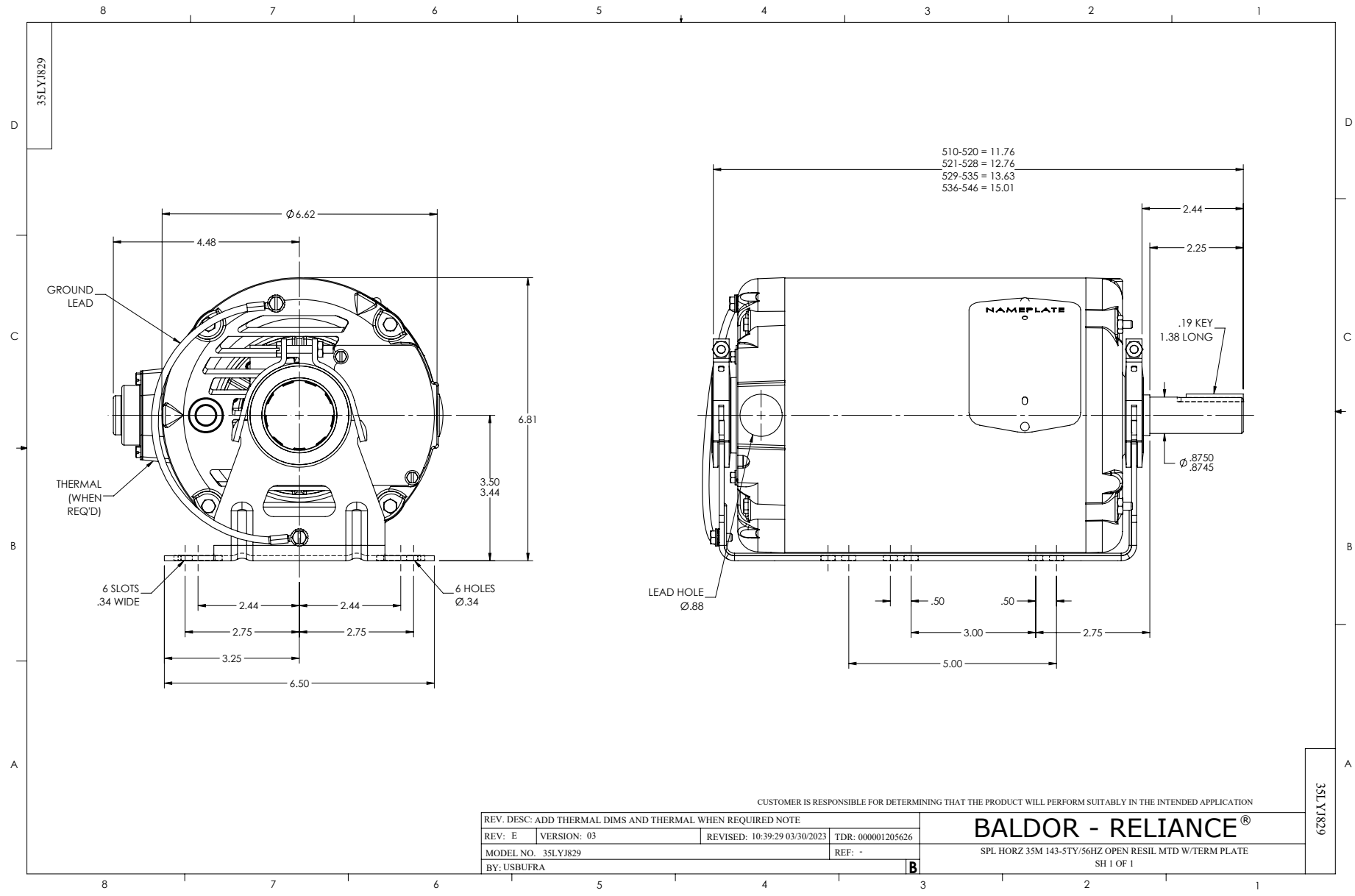
WINDING # 35WGP988

3 HP 3 PH 60 HZ 3450 RPM 460 V 3530M

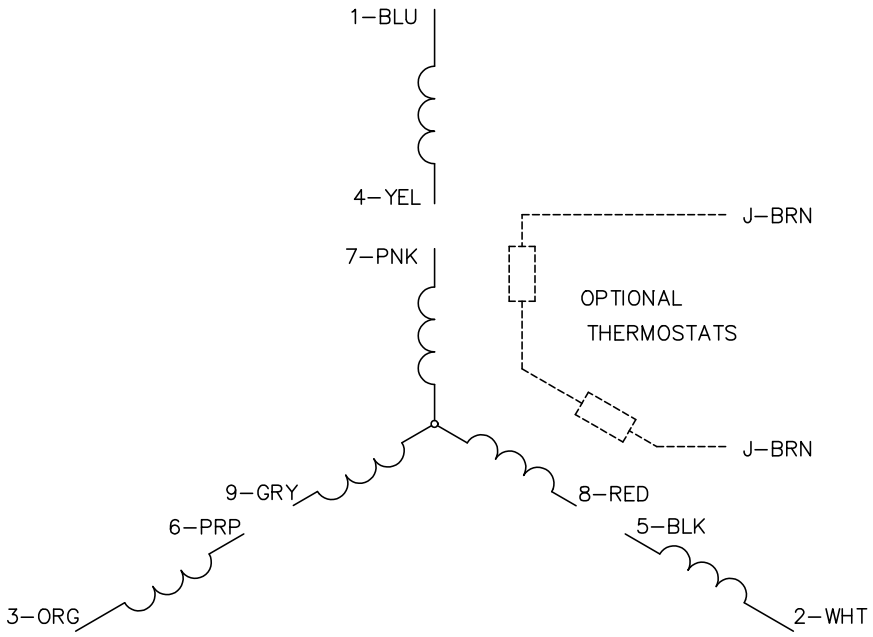
Typical performance - not guaranteed values.

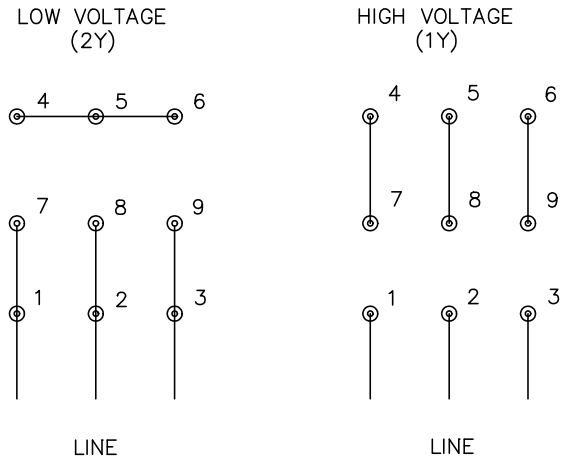
TORQUES(LB-FT): PO=18.1 PU=11.3 LR=15.1 LRA=32.5




35LYJ829
Ø6.62
4.48
GROUND LEAD
THERMAL (WHEN REQ'D)
6.81
3.50
3.44
6 SLOTS .34 WIDE
6 HOLES Ø.34
2.44
2.44
2.75
2.75
3.25
6.50
510-520 = 11.76
521-528 = 12.76
529-535 = 13.63
536-546 = 15.01
2.44
2.25
NAMEPLATE
.19 KEY
1.38 LONG
Ø .8750
.8745
LEAD HOLE Ø.88
.50
.50
3.00
2.75
5.00
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: E
VERSION: 03
REVISED: 10:39:29 03/30/2023
TDR: 000001205626
MODEL NO. 35LYJ829
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
SPL HORZ 35M 143-5TY/56HZ OPEN RESIL MTD W/TERM PLATE
SH 1 OF 1
35LYJ829

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS