Customer information packet

CESSWDM3546-H

1HP, 1770RPM, 3PH, 60HZ, 56HC, 3522M, TENV, 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.
11/16/2026 11:47:35 PM

Specifications

Enclosure	TENV
Frame	56HC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 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	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
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	3.340 A @ 230.0 V
	3.300 A @ 208.0 V
	1.670 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 Shaft Indicator	None

Part Detail

Revision	A
Type	AC
Mech. spec.	35E6083
Base	
Status	PRD/A
Elec. spec.	35WGZ818
Layout	35LYE6083
Eff. date	06-14-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	02-21-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.97 IN
Power Factor	66
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP1953A01								
CAT.NO.	CESSWDM3546-H							
SPEC.	35E6083Z818G1							
HP	1 TE							
VOLTS	230/460							
AMP	3.34/1.67							
RPM	1770							
FRAME	56HC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	M	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	85.5	**PF**	66					
RATING	40C AMB-CONT							
CC	010A							
DE	6205	**ODE**	6203					
ENCL	TENV	**SN**						
	SFA 3.5/1.75							

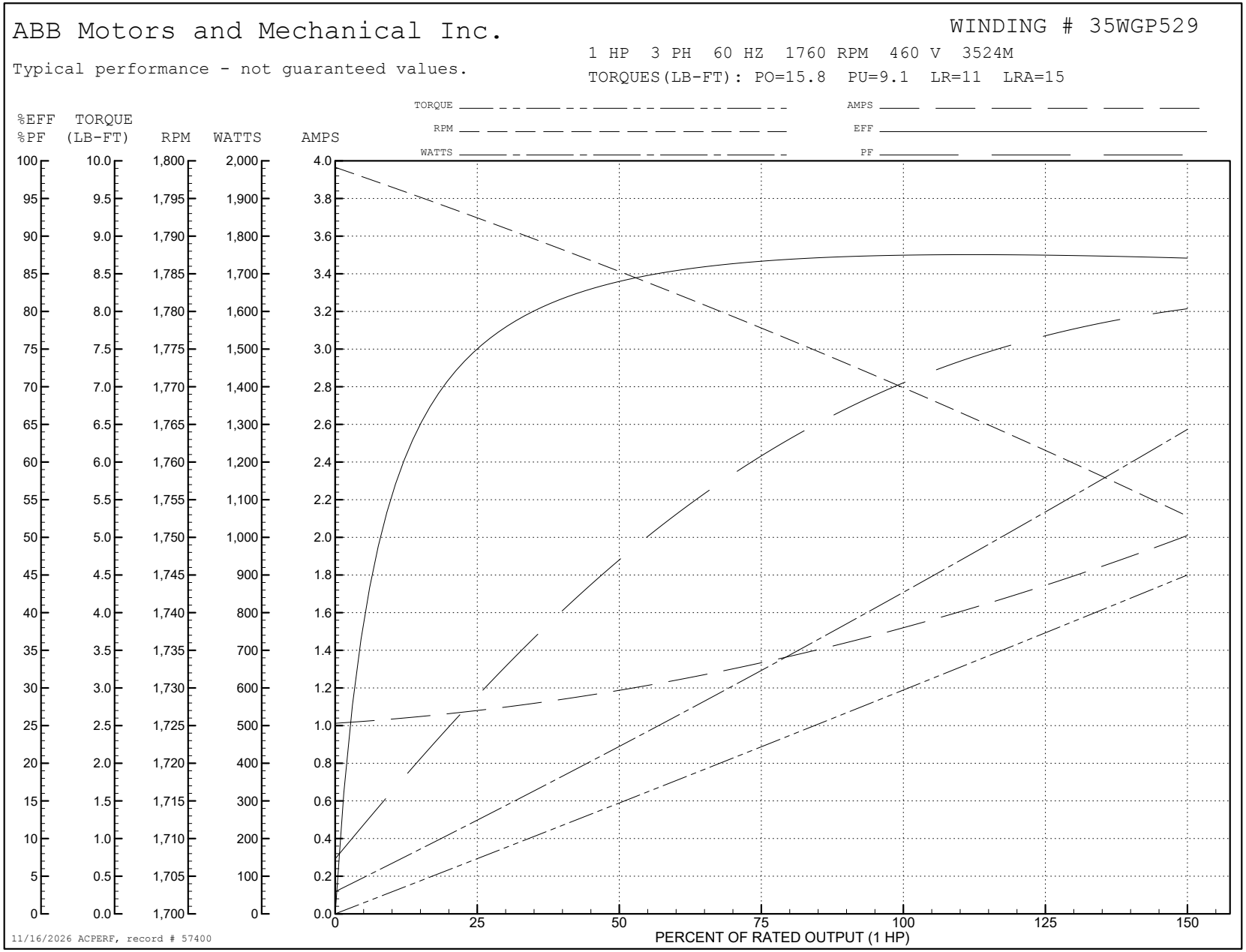
AC Induction Motor Performance Data
Record # 57400
Typical performance - not guaranteed values

Winding: 35WGP529-R087	**Type:** 3524M	**Enclosure:** TENV

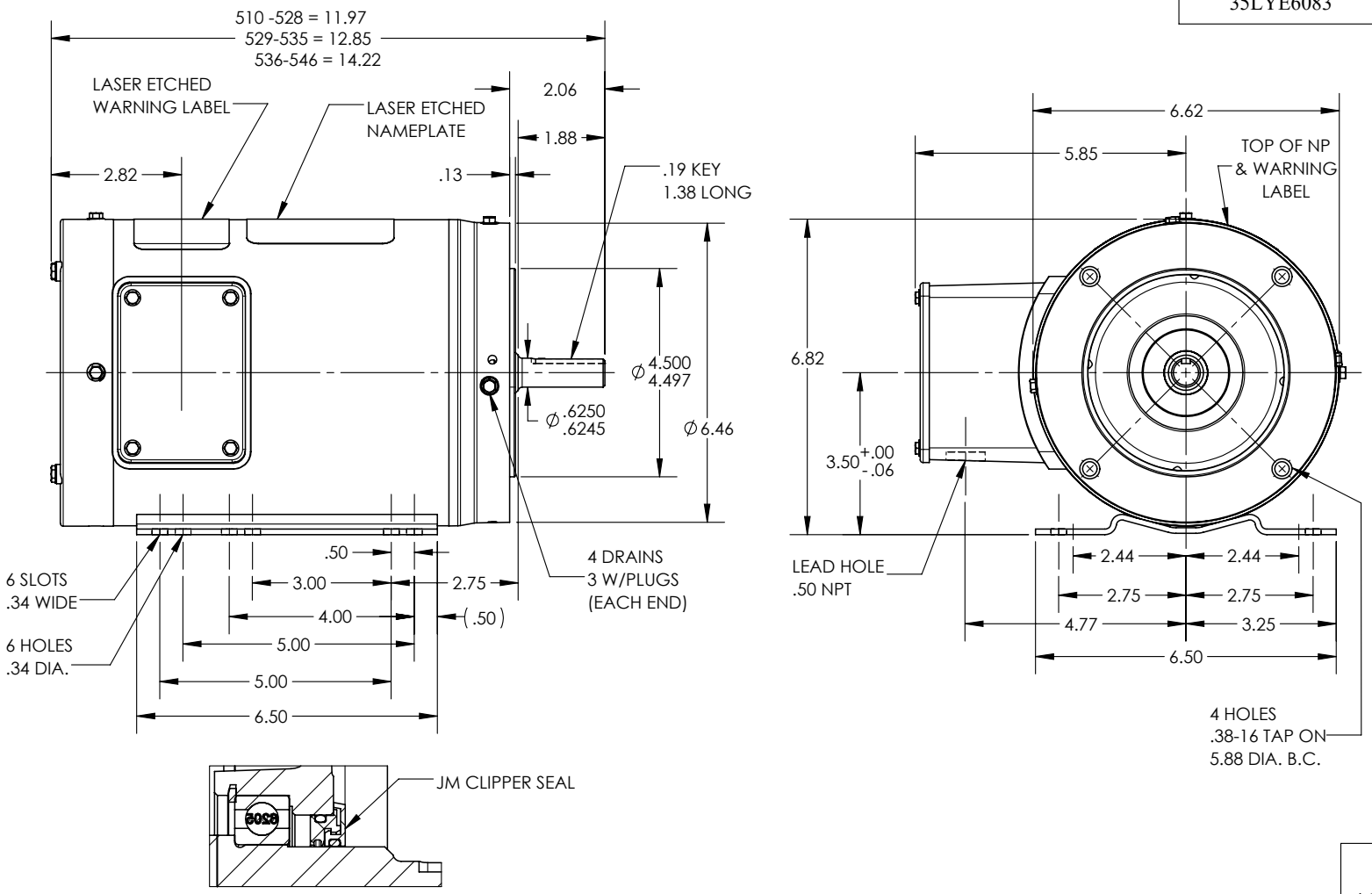
Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	2.99 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3/1.5	**Breakdown Torque**	15.8 LB-FT
R.P.M.			1760	**Pull-up Torque**	9.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	11 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	15 A
Service Factor (S.F.)			1.15	**No-load Current**	1.02 A
NEMA Nom. Eff.	87.5	**Power Factor**	70	**Line-line Res. @ 25ºC**	11.2 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	26°C
S.F. Amps				**Temp. Rise @ S.F. Load**	30°C
				Locked-rotor Power Factor	48.9
				Rotor inertia	0.142 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	28	48	60	70	76	81	74
Efficiency	74.2	83.6	86.7	87.9	87.4	87.1	87.6
Speed	1793	1785	1778	1770	1761	1753	1765
Line amperes	1.07	1.18	1.33	1.53	1.76	2	1.67


ABB Motors and Mechanical Inc.
WINDING # 35WGP529
1 HP 3 PH 60 HZ 1760 RPM 460 V 3524M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=15.8 PU=9.1 LR=11 LRA=15
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/16/2026 ACPERF, record # 57400

35LYE6083



PULLEY END DETAIL

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

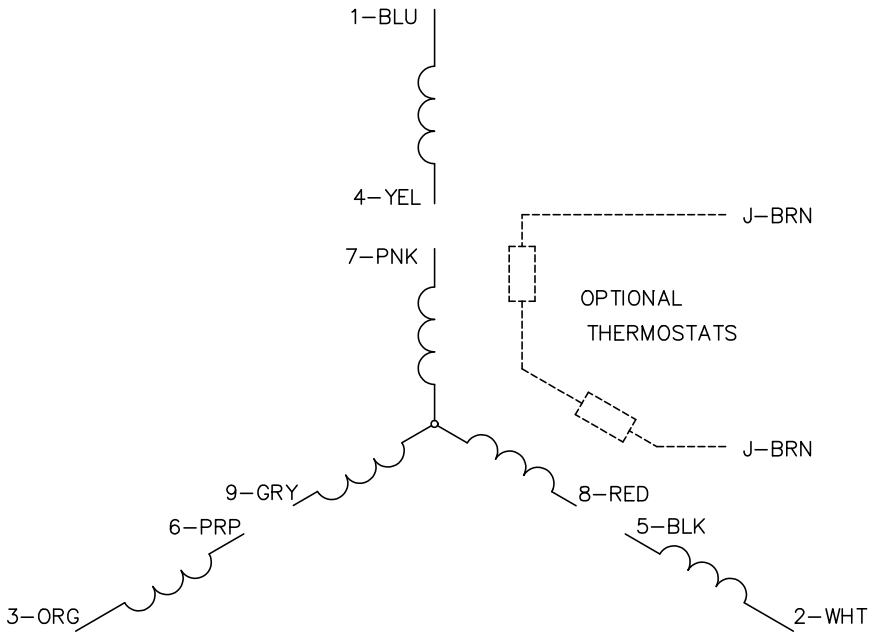
REV. DESC: NEW - REPLACE 35LY-000-350			
REV: -	VERSION: 00	REVISED: 11:55:57 02/21/2023	TDR: 000001197425
35LYE6083	MODEL NO. 35LYE6083		REF: -
	BY: ENALEM0		

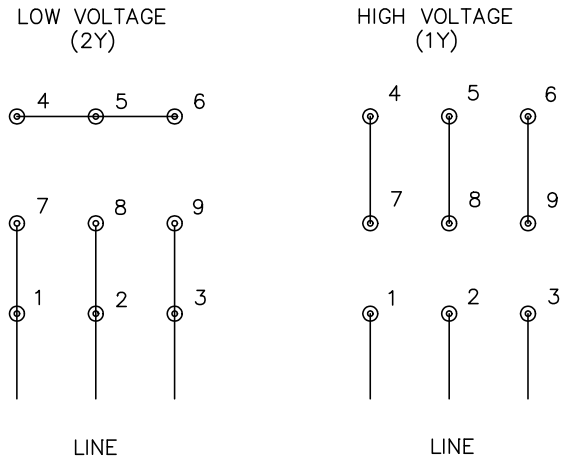
BALDOR - RELIANCE®

STD HORZ 56HC TENV 35M WD4

35LYE6083

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