Customer information packet

CESSWDM3545-H

1HP, 3450RPM, 3PH, 60HZ, 56HC, TENV, F1
Class - None
Division - Not Applicable

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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	3600 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	1.300 A @ 460.0 V
	2.600 A @ 230.0 V
	2.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGR090
Layout	35LY-000-350
Eff. date	06-14-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	05-26-2020

Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.97 IN
Power Factor	88
Product Family	Wash Down All Stainless Steel
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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.	CESSWDM3545-H							
SPEC.	35-0000-0796							
HP	1							
VOLTS	230/460							
AMP	2.6/1.3							
RPM	3450 SFA 3/1.5							
FRAME	56HC	**HZ**	60			**PH**	3	
SER.F.	1.25	**CODE**	L	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	84	**PF**	88					
RATING	40C AMB-CONT							
CC	010A							
DE	6205	**ODE**	6203					
ENCL	TENV	**SN**						
	4:1CT 20:1VT							

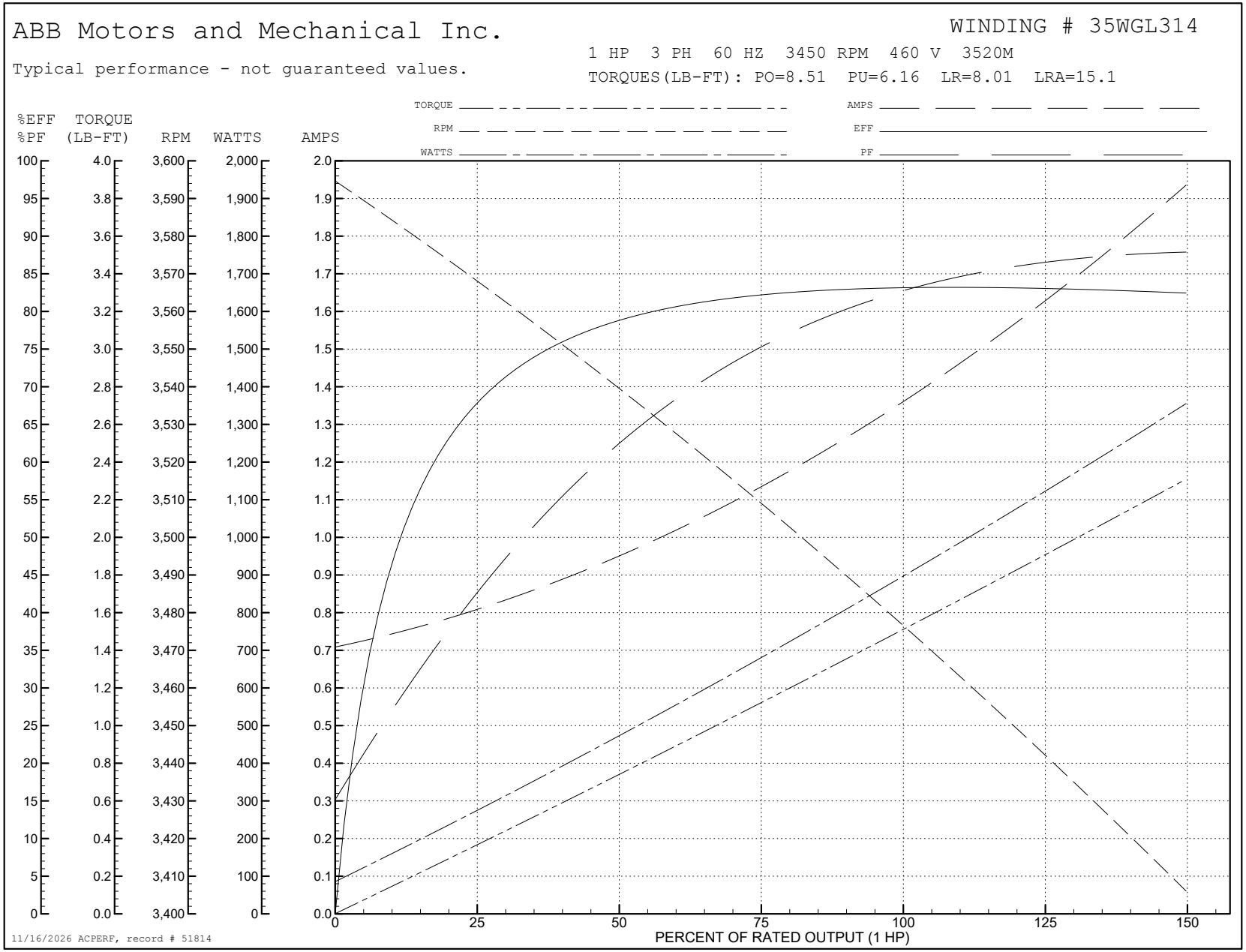
AC Induction Motor Performance Data
Record # 51814
Typical performance - not guaranteed values

Winding: 35WGL314-R001	**Type:** 3520M	**Enclosure:** TENV

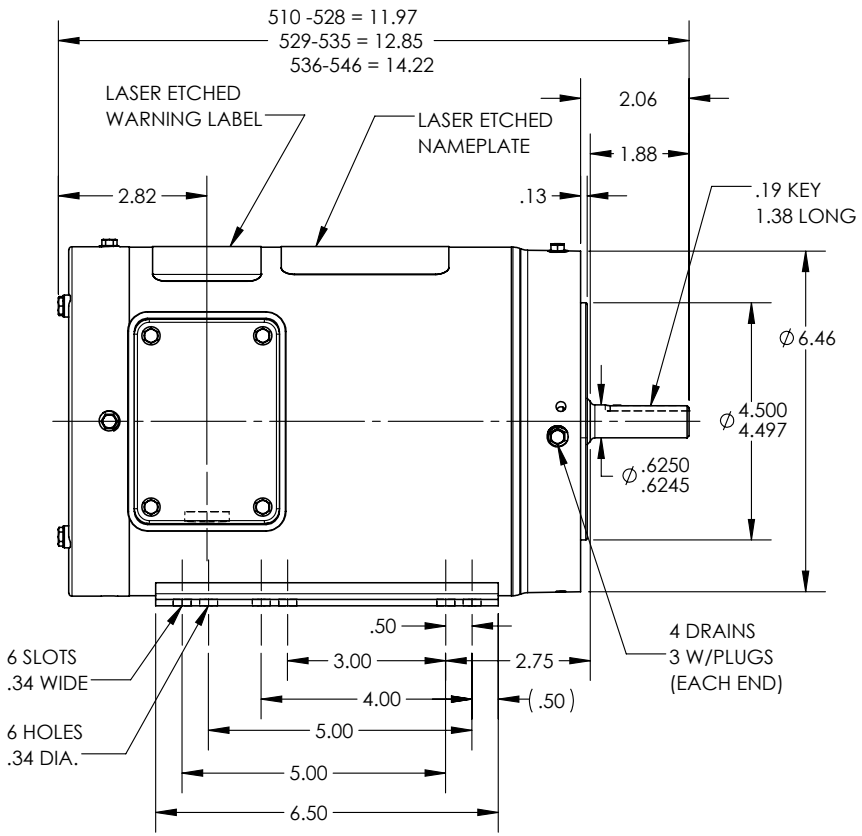
Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	1.52 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			2.8/1.4	**Breakdown Torque**	8.51 LB-FT
R.P.M.			3450	**Pull-up Torque**	6.16 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.01 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	15.1 A
Service Factor (S.F.)			1.25	**No-load Current**	0.722 A
NEMA Nom. Eff.	82.5	**Power Factor**	82	**Line-line Res. @ 25ºC**	10.85 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	91°C
S.F. Amps			3.2/1.6	**Temp. Rise @ S.F. Load**	108°C

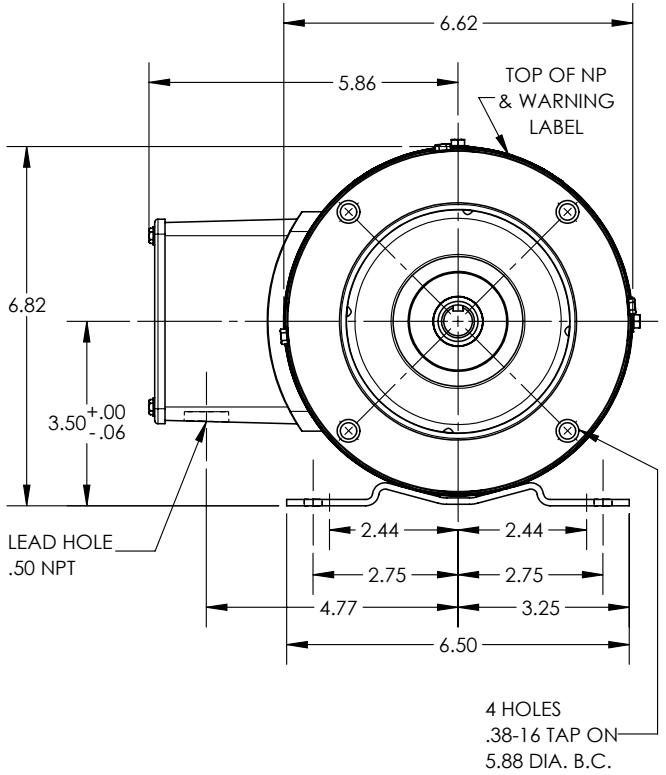
Load Characteristics 460 V, 60 Hz, 1 HP

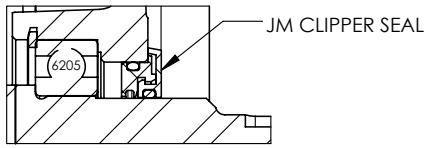
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	44	64	76	82	86	88	86
Efficiency	67.8	79	82.4	83.4	83.4	82.5	84.5
Speed	3566.5	3536.9	3507.4	3477.1	3442.7	3405	3439
Line amperes	0.791	0.953	1.15	1.38	1.63	1.93	1.585


ABB Motors and Mechanical Inc.
WINDING # 35WGL314
1 HP 3 PH 60 HZ 3450 RPM 460 V 3520M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=8.51 PU=6.16 LR=8.01 LRA=15.1
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 # 51814

35LY-000-350







PULLEY END DETAIL

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

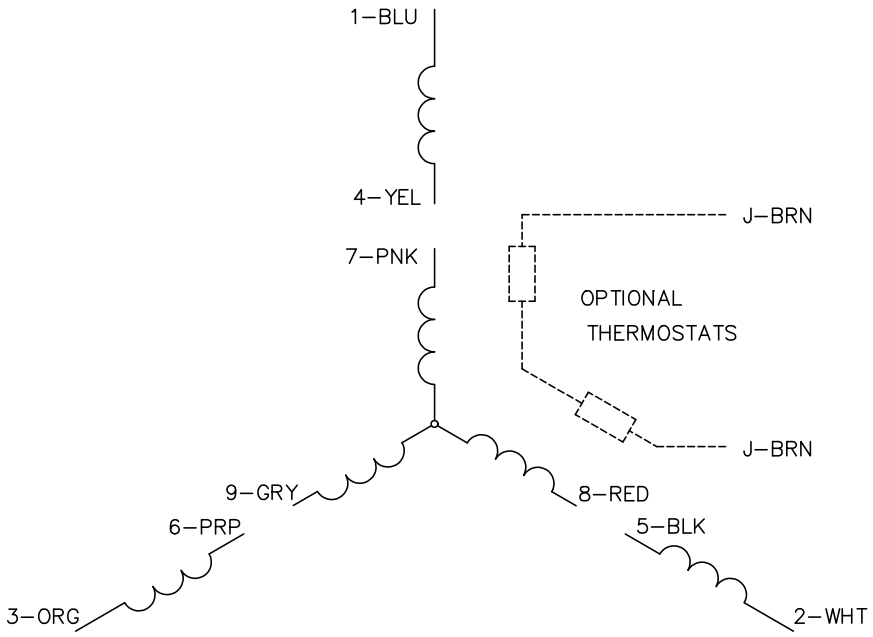
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REV: -	VERSION: 00	REVISED: 09:59:04 06/01/2020	TDR: 000001125696
35LY-000-350	MODEL NO. 35LY-000-350		REF: -
	BY: ENADAF0		

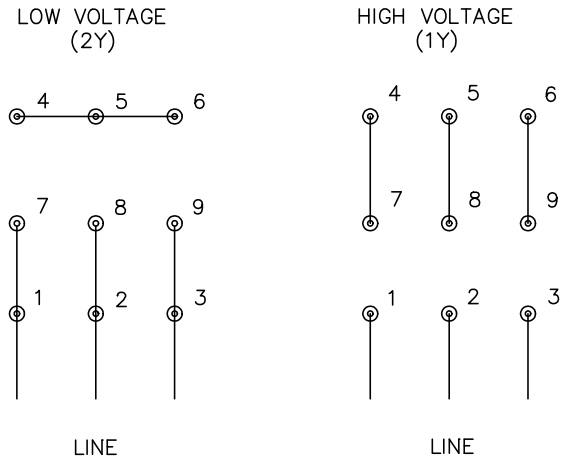
BALDOR - RELIANCE®

STD HORZ 56HC TENV 35M WD4

35LY-000-350

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