Customer information packet

CWDM3539-H

.5HP, 1175RPM, 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.
11/17/2026 5:44:39 AM

Specifications

Enclosure	TENV
Frame	56HC
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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 V @ 60 HZ
Agency Approvals	C UR US
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	2.000 A @ 230.0 V
	2.000 A @ 208.0 V
	1.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.0 a

Part Detail

Revision	B
Type	AC
Mech. spec.	35E1081
Base	
Status	PRD/A
Elec. spec.	35WGG337
Layout	35LY-000-259
Eff. date	10-19-2023
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

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	6
Overall Length	11.91 IN
Power Factor	57
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1175 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

NP1496L											
CAT.NO.	CWDM3539-H										
SPEC.	35E1081G337										
HP	.5										
VOLTS	208-230/460										
AMP	2/1										
RPM	1175										
FRAME	56HC		**HZ**	60			**PH**	3			
SER.F.	1.25	**CODE**	M	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF	77	**PF**	57								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**								
ENCL	TENV	**SN**									
	SFA 2.3/1.15										

AC Induction Motor Performance Data
Record # 38108
Typical performance - not guaranteed values

Winding: 35WGN469-R001	**Type:** 3522M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	2.19 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			1.9/0.95	**Breakdown Torque**	7.69 LB-FT
R.P.M.			1165	**Pull-up Torque**	5.09 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.89 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	5.68 A
Service Factor (S.F.)			1.25	**No-load Current**	0.712 A
NEMA Nom. Eff.	78.5	**Power Factor**	60	**Line-line Res. @ 25ºC**	33.876 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	73°C
S.F. Amps			2.3-2.2/1.1	**Temp. Rise @ S.F. Load**	100°C

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	24	39	51	60	67	72	67
Efficiency	58.1	72.5	77.4	78.8	78.8	77.6	78.8
Speed	1192.7	1184.4	1175.1	1165.4	1154.5	1141.6	1154
Line amperes	0.734	0.78	0.855	0.955	1.08	1.23	1.08

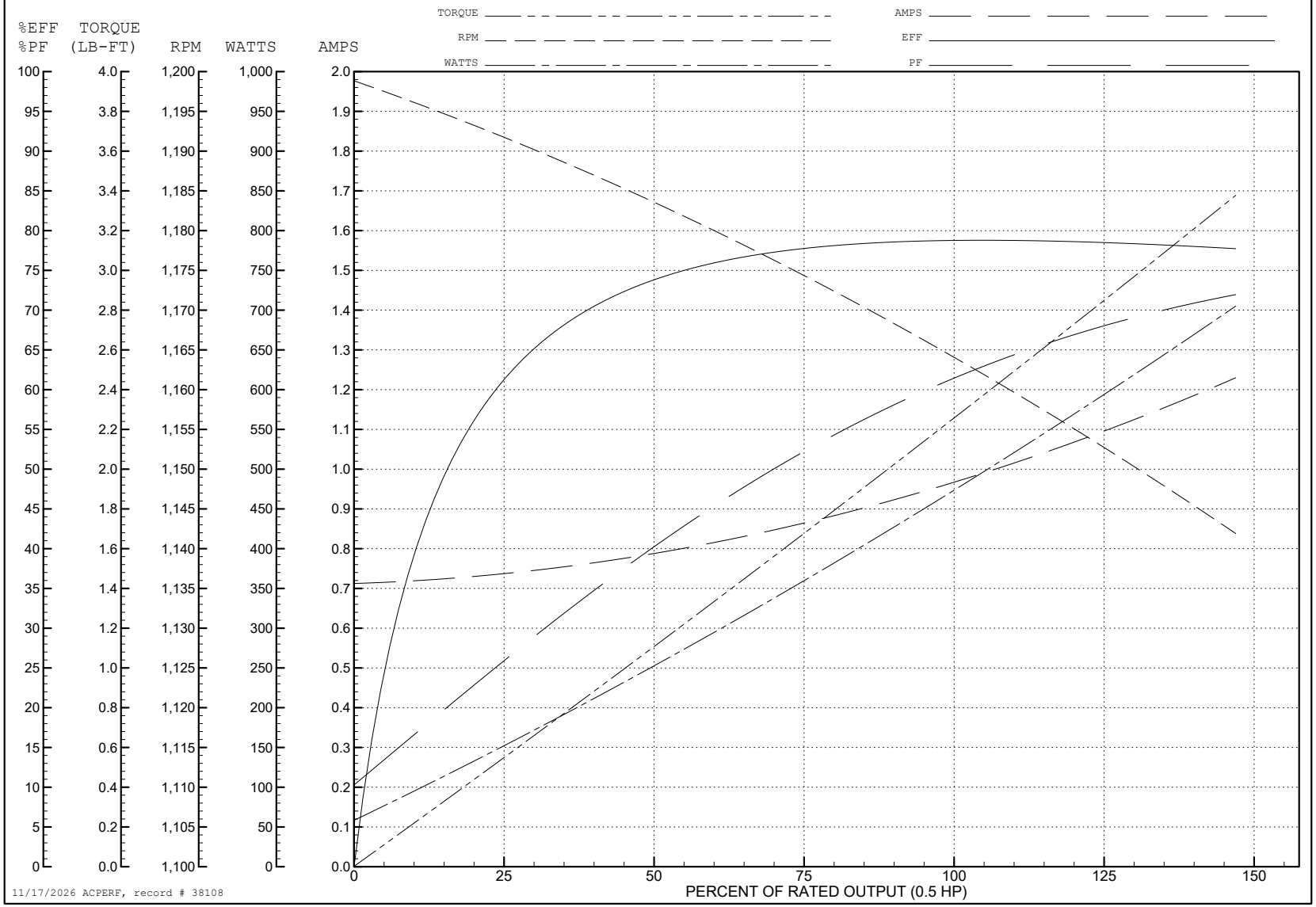
ABB Motors and Mechanical Inc.

WINDING # 35WGN469

0.5 HP 3 PH 60 HZ 1165 RPM 460 V 3522M

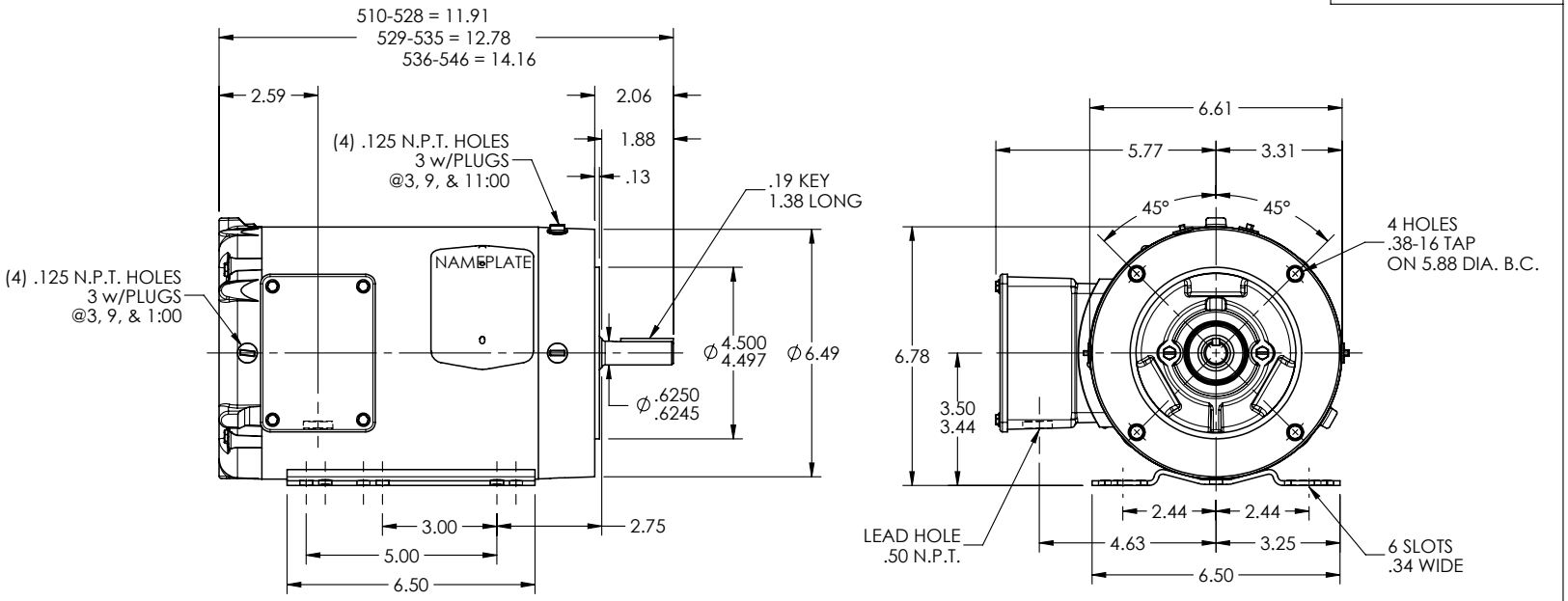
Typical performance - not guaranteed values.

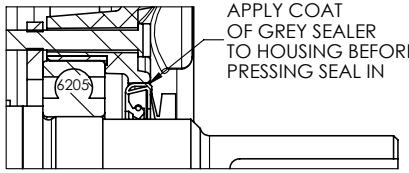
TORQUES(LB-FT): PO=7.69 PU=5.09 LR=5.89 LRA=5.68



11/17/2026 ACPERF, record # 38108

35LY-000-259





PULLEY END DETAIL

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

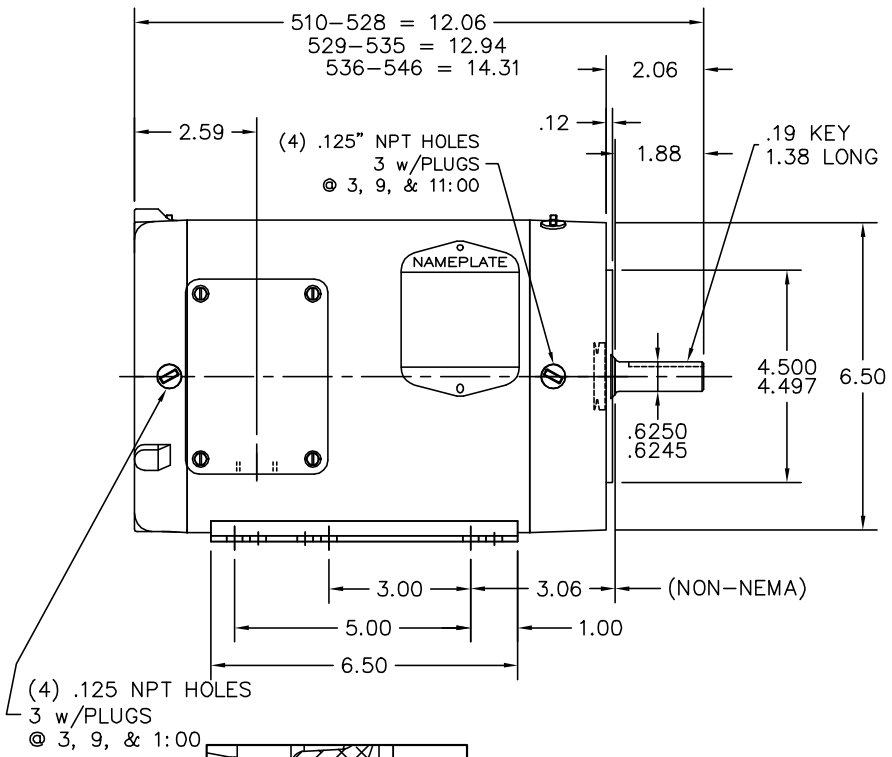
REV. DESC: UPDATE MATE ERRORS IN 3D MODEL			
REV: A	VERSION: 01	REVISED: 08:47:50 04/21/2022	TDR: 000001188385
35LY-000-259	MODEL NO. 35LY-000-259		REF: -
	BY: USBUFRA		

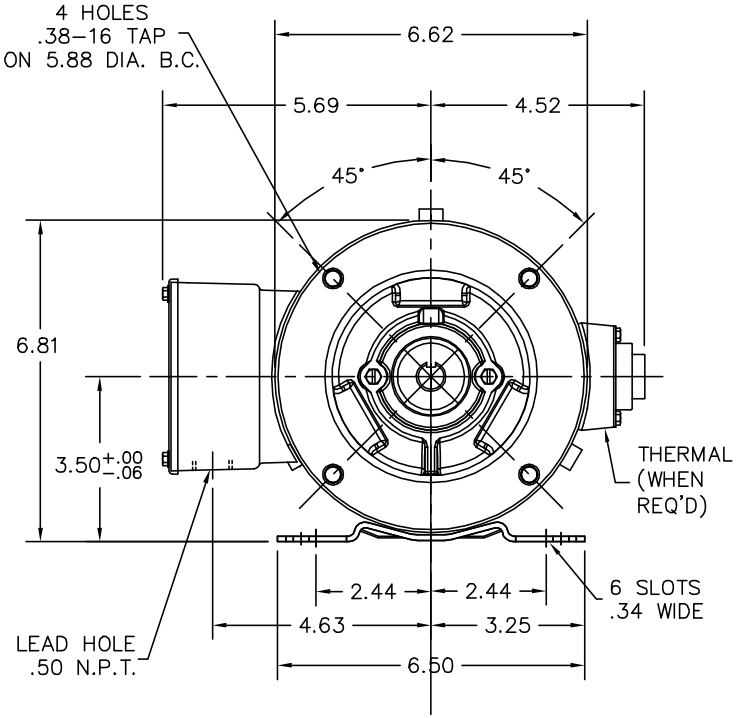
BALDOR - RELIANCE®

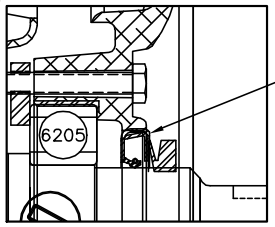
STD HORZ 56HC TENV 35M WD

35LY-000-259

35LYE1081







PULLEY END DETAIL

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: UPDATE ENDPLATES AND NOTES		
REV. LTR: A	VERSION: 01	TDR: 000001076108
FILE: \AAA\00189\330	REVISED: 06:19:51 06/26/2018	BY: FGCHAH1
MTL: –		

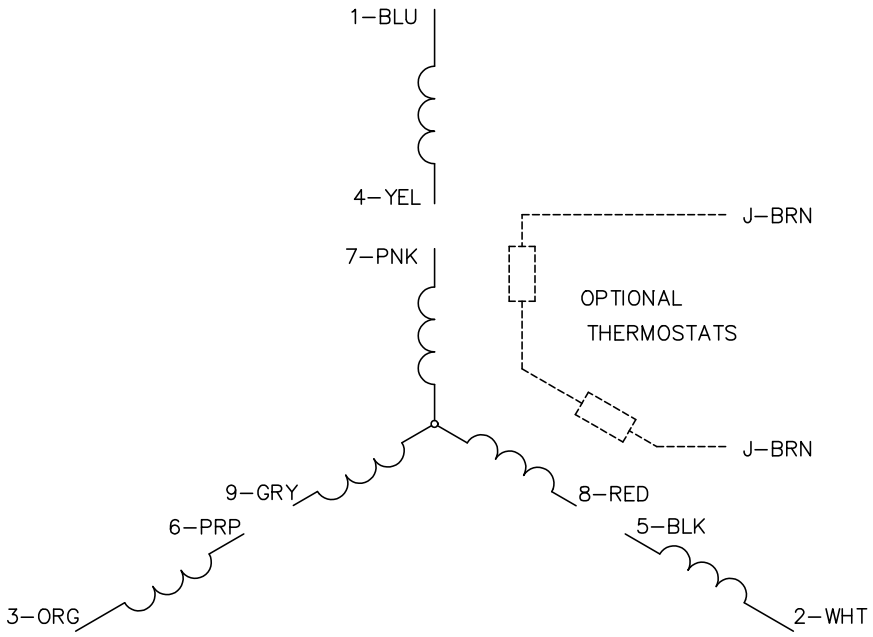
BALDOR - RELIANCE®

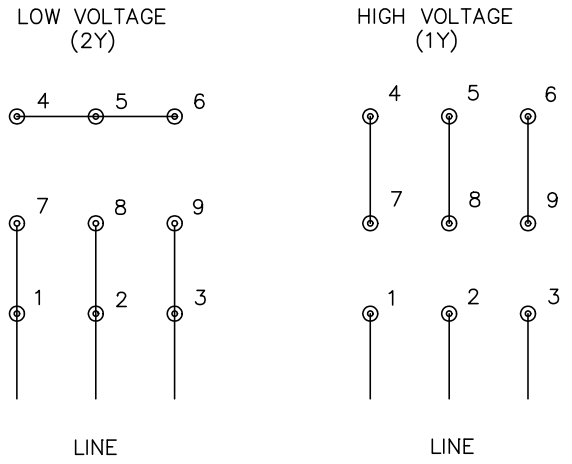
HORZ 56HC TENV 35M WD

SH 1 of 1

35LYE1081

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