Customer information packet

CWDM3537-H

0.5HP, 3450RPM, 3PH, 60HZ, 56HC, TENV, F1
Class - None
Division - Not Applicable

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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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	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	.900 A @ 460.0 V
	1.800 A @ 230.0 V
	1.900 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WG1706
Layout	35LY-000-259
Eff. date	09-11-2023
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-26-2019

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP55
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.06 IN
Power Factor	76
Product Family	Wash Down
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

NP1496L									
CAT.NO.	CWDM3537-H								
SPEC.	35-0000-0229								
HP	.5								
VOLTS	208-230/460								
AMP	1.9-1.8/.9								
RPM	3450								
FRAME	56HC	**HZ**	60			**PH**	3		
SER.F.	1.25	**CODE**	L	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	70	**PF**	76						
RATING	40C AMB-CONT								
CC									
DE	6205	**ODE**	6203						
ENCL	TENV	**SN**							
	SFA 2.1-2/1								

AC Induction Motor Performance Data
Record # 37295
Typical performance - not guaranteed values

Winding: 35WG1706-R003	**Type:** 3512M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	0.752 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			1.9-1.8/.9	**Breakdown Torque**	3.06 LB-FT
R.P.M.			3450	**Pull-up Torque**	2.14 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	2.44 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	5.71 A
Service Factor (S.F.)			1.25	**No-load Current**	0.525 A
NEMA Nom. Eff.	70	**Power Factor**	76	**Line-line Res. @ 25ºC**	37.8 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps			2.1-2/1	**Temp. Rise @ S.F. Load**	74°C
				Locked-rotor Power Factor	72.9
				Rotor inertia	0.0332 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	62	72	79	83	86	83
Efficiency	43.9	59.7	67.1	70.5	72.1	72.5	72.4
Speed	3557	3530	3502	3471	3438	3402	3450
Line amperes	0.565	0.636	0.727	0.839	0.961	1.1	0.96

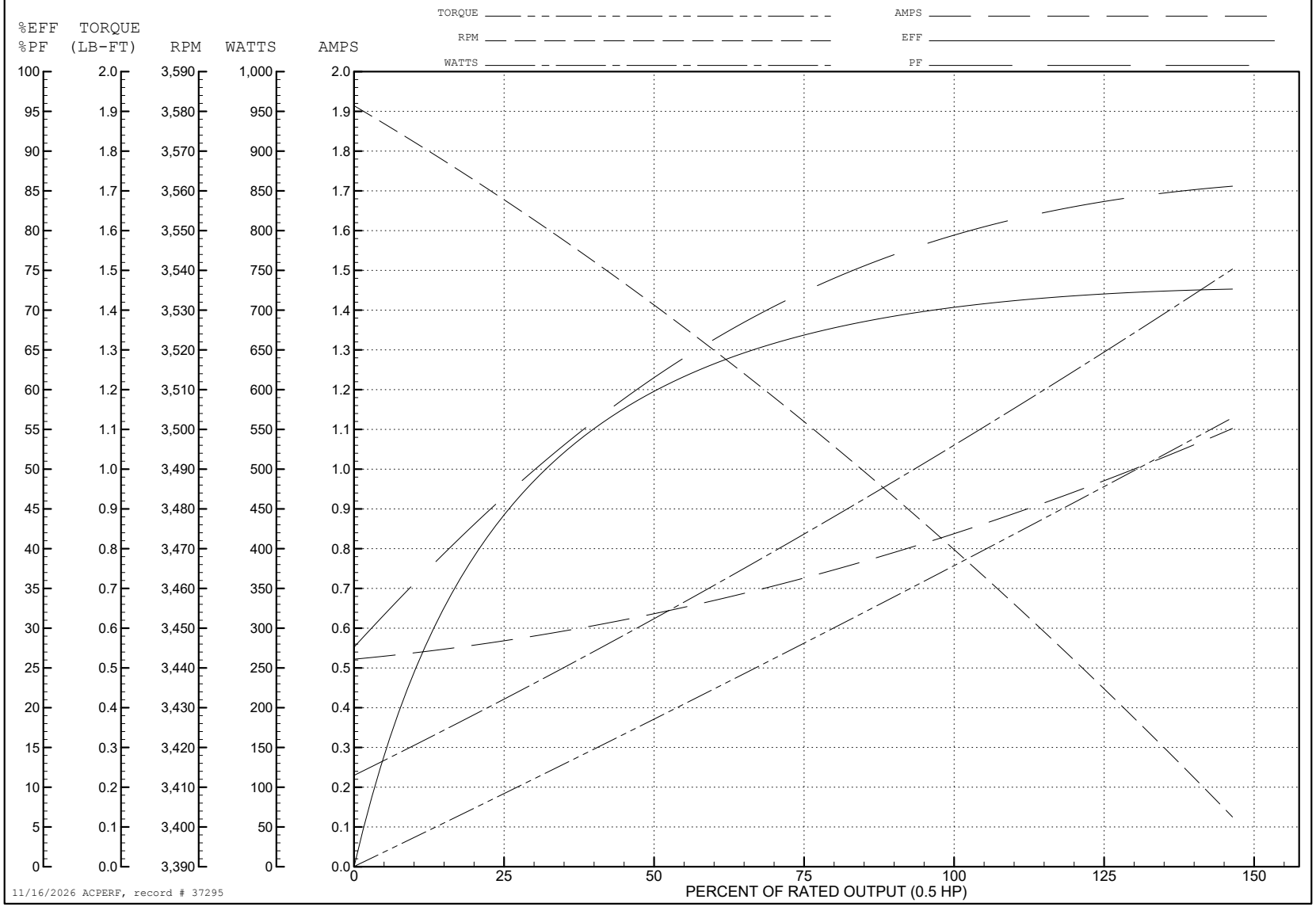
ABB Motors and Mechanical Inc.

WINDING # 35WG1706

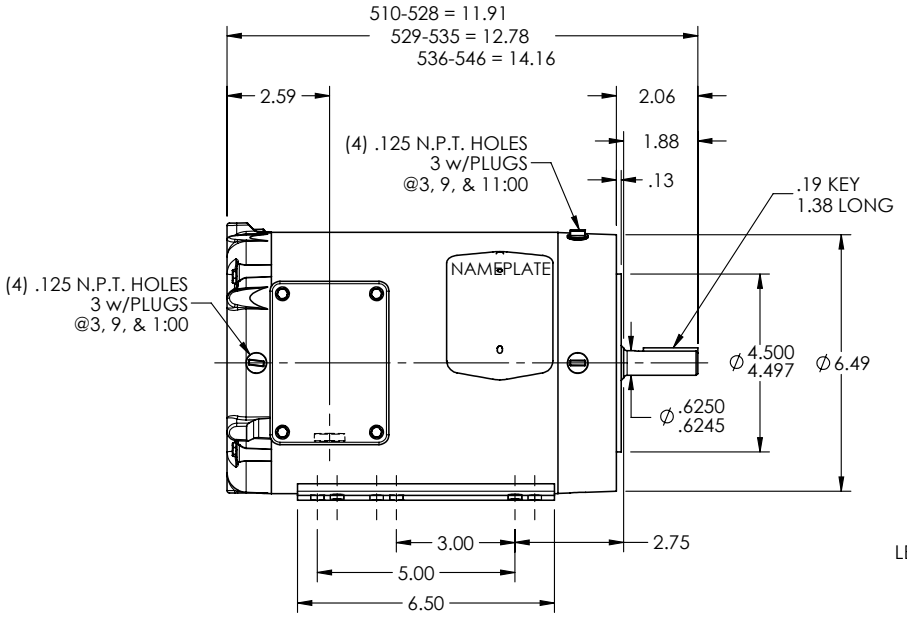
0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3512M

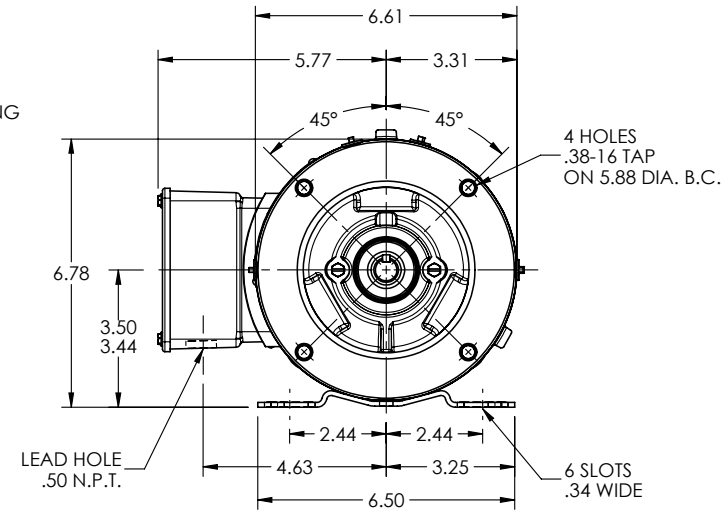
Typical performance - not guaranteed values.

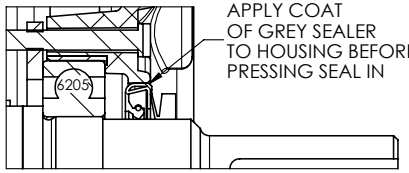
TORQUES(LB-FT): PO=3.06 PU=2.14 LR=2.44 LRA=5.71



35LY-000-259







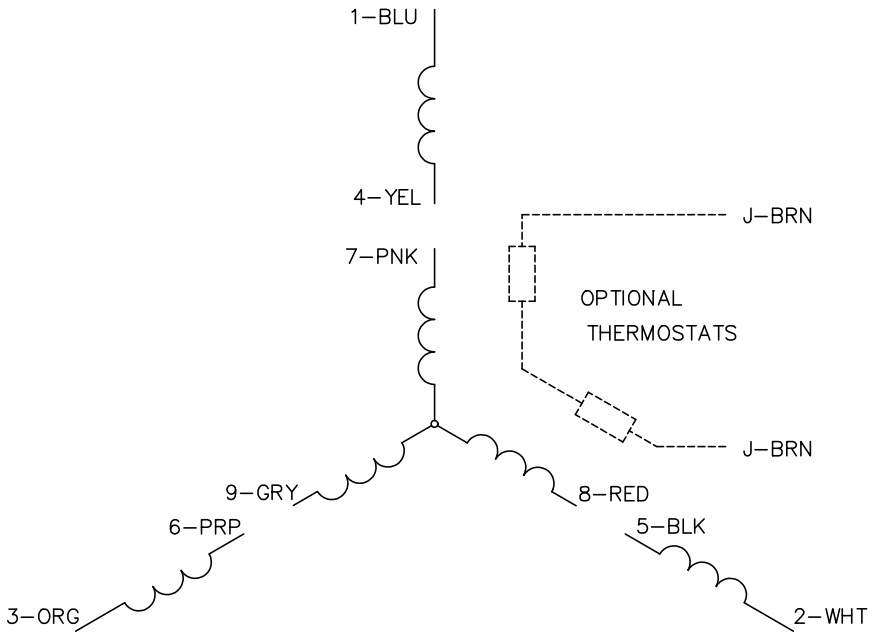
PULLEY END DETAIL

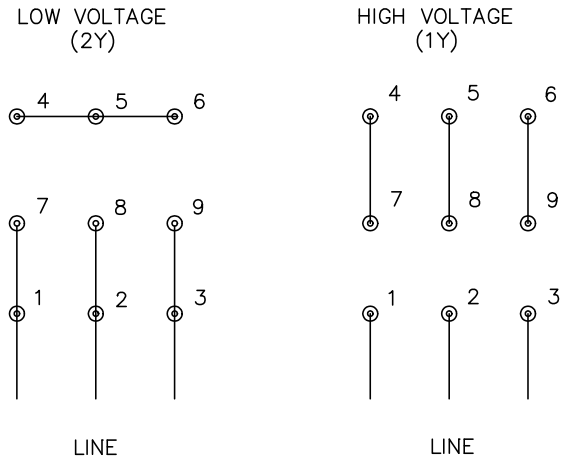
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: UPDATE MATE ERRORS IN 3D MODEL				BALDOR - RELIANCE®
REV: A	VERSION: 01	REVISED: 08:47:50 04/21/2022	TDR: 000001188385	
35LY-000-259	MODEL NO. 35LY-000-259		REF: -	STD HORZ 56HC TENV 35M WD
	BY: USBUFRA			

35LY-000-259

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