Customer information packet

CWDM3538-H

0.5HP, 1770RPM, 3PH, 60HZ, 56HC, 3512M, TENV, F
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	1800 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	80.0 %
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.	35WGG155
Layout	35LY-000-259
Eff. date	03-12-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-28-2021

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.91 IN
Power Factor	62
Product Family	Wash Down
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP1496L											
CAT.NO.	CWDM3538-H										
SPEC.	35-0000-1382										
HP	.5										
VOLTS	208-230/460										
AMP	1.9-1.8/0.9										
RPM	1770										
FRAME	56HC		**HZ**	60			**PH**	3			
SER.F.	1.00	**CODE**	M	**DES**	B	**CLASS**	H				
NEMA-NOM-EFF	80	**PF**	62								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	TENV	**SN**									

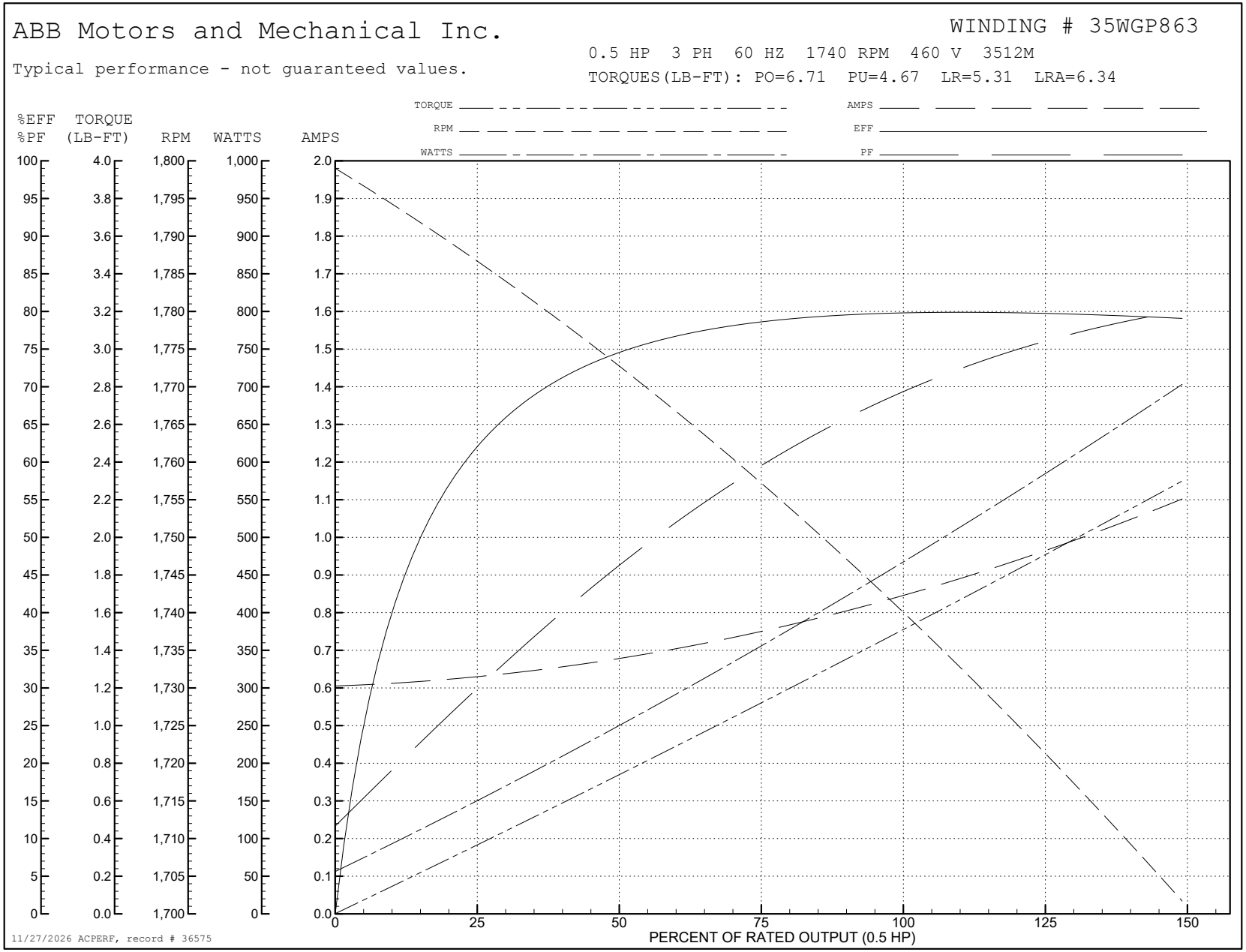
AC Induction Motor Performance Data
Record # 36575
Typical performance - not guaranteed values

Winding: 35WGP863-R016	**Type:** 3512M	**Enclosure:** TENV

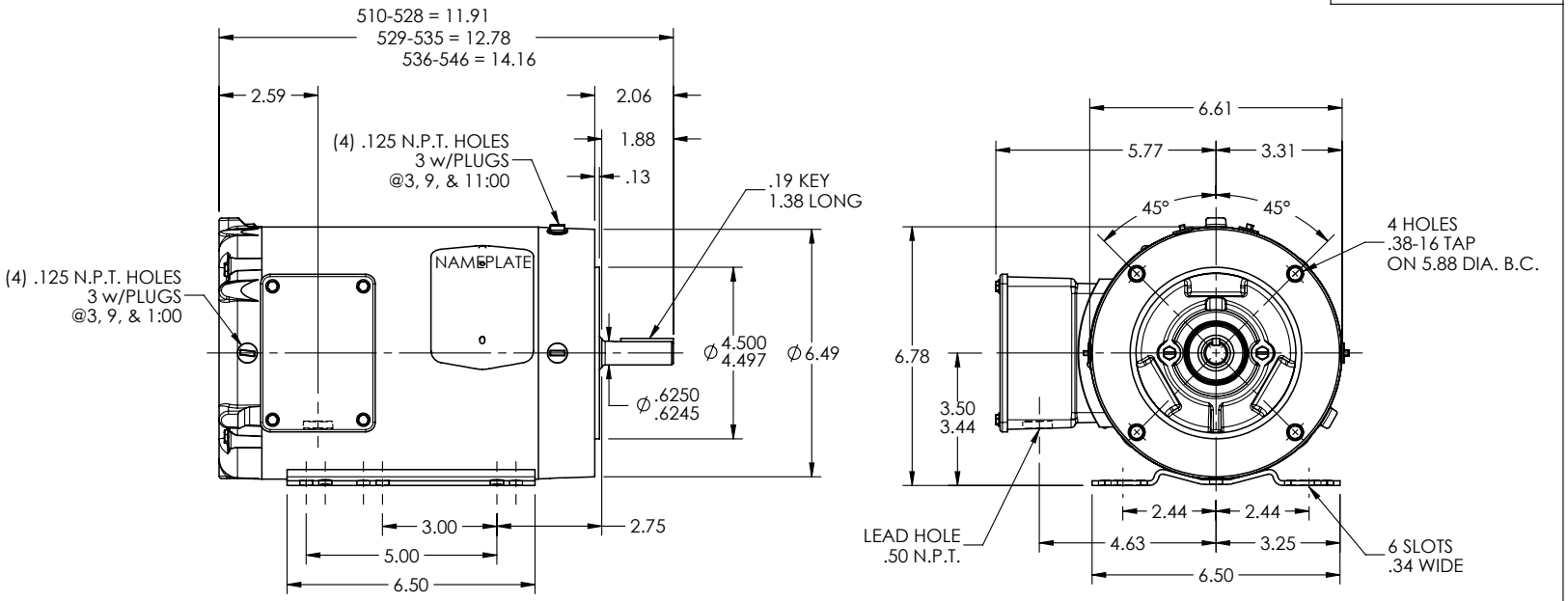
Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		.5	**Full Load Torque**	1.49 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		1.6/.8	**Breakdown Torque**	6.71 LB-FT
R.P.M.		1740	**Pull-up Torque**	4.67 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	5.31 LB-FT
NEMA Design Code	B **KVA Code**	M	**Starting Current**	6.34 A
Service Factor (S.F.)		1.25	**No-load Current**	0.608 A
NEMA Nom. Eff.	80 **Power Factor**	69	**Line-line Res. @ 25ºC**	34 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	54°C
S.F. Amps		1.9/0.95	**Temp. Rise @ S.F. Load**	65°C
			Locked-rotor Power Factor	74
			Rotor inertia	0.0709 LB-FT2

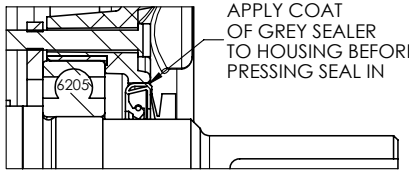
Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	28	45	59	69	75	80	75
Efficiency	59.5	73.1	78.5	80	80.1	78.9	80.1
Speed	1788	1774	1759	1741	1722	1702	1722
Line amperes	0.624	0.669	0.744	0.844	0.957	1.1	0.957


ABB Motors and Mechanical Inc.
WINDING # 35WGP863
0.5 HP 3 PH 60 HZ 1740 RPM 460 V 3512M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=6.71 PU=4.67 LR=5.31 LRA=6.34
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/27/2026 ACPERF, record # 36575

35LY-000-259





PULLEY END DETAIL

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

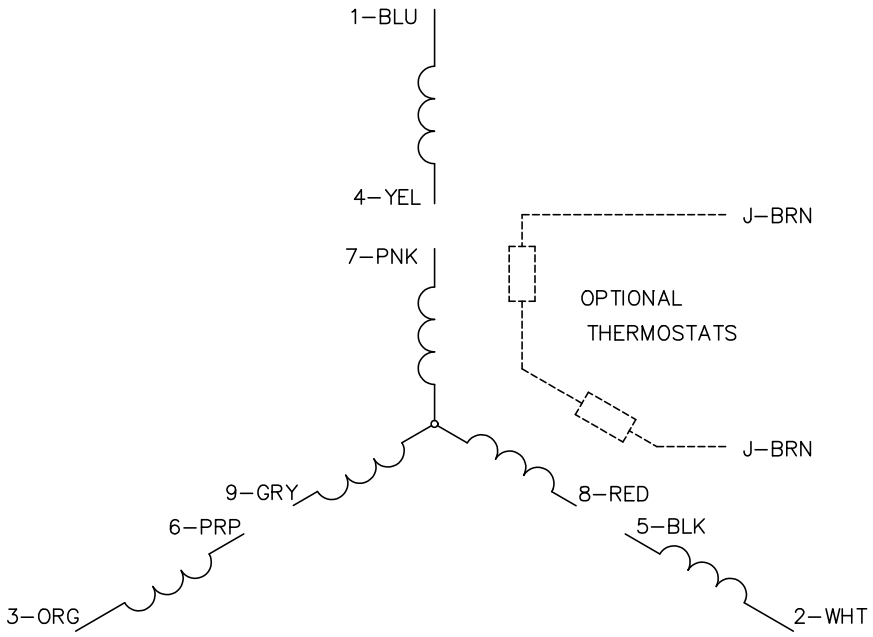
REV. DESC: UPDATE MATE ERRORS IN 3D MODEL			
REV: A	VERSION: 01	REVISED: 08:47:50 04/21/2022	TDR: 000001188385
35LY-000-259	MODEL NO. 35LY-000-259		REF: -
	BY: USBUFRA		

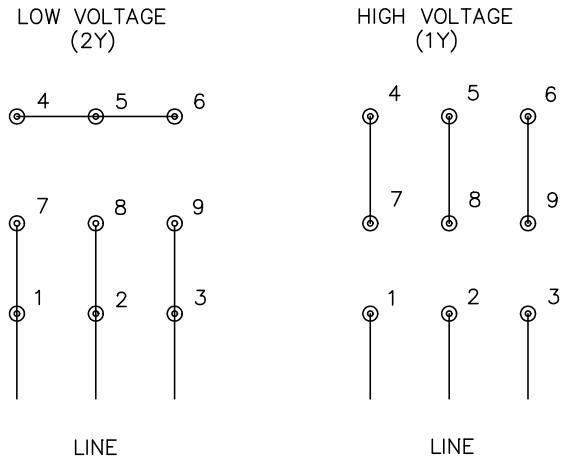
BALDOR - RELIANCE®

STD HORZ 56HC TENV 35M WD

35LY-000-259

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