

ABB BALDOR RELIANCE III

Customer information packet

CWDM3538-H

0.5HP, 1770RPM, 3PH, 60HZ, 56HC, 3512M, TENV, F

Class - None

Division - Not Applicable

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	Starting Current		6.34 A	
Service Factor (S.F.)		1.25	No-load Current		0.608 A	
NEMA Nom. Eff.		80 Power Factor	Line-line Res. @ 25°C		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

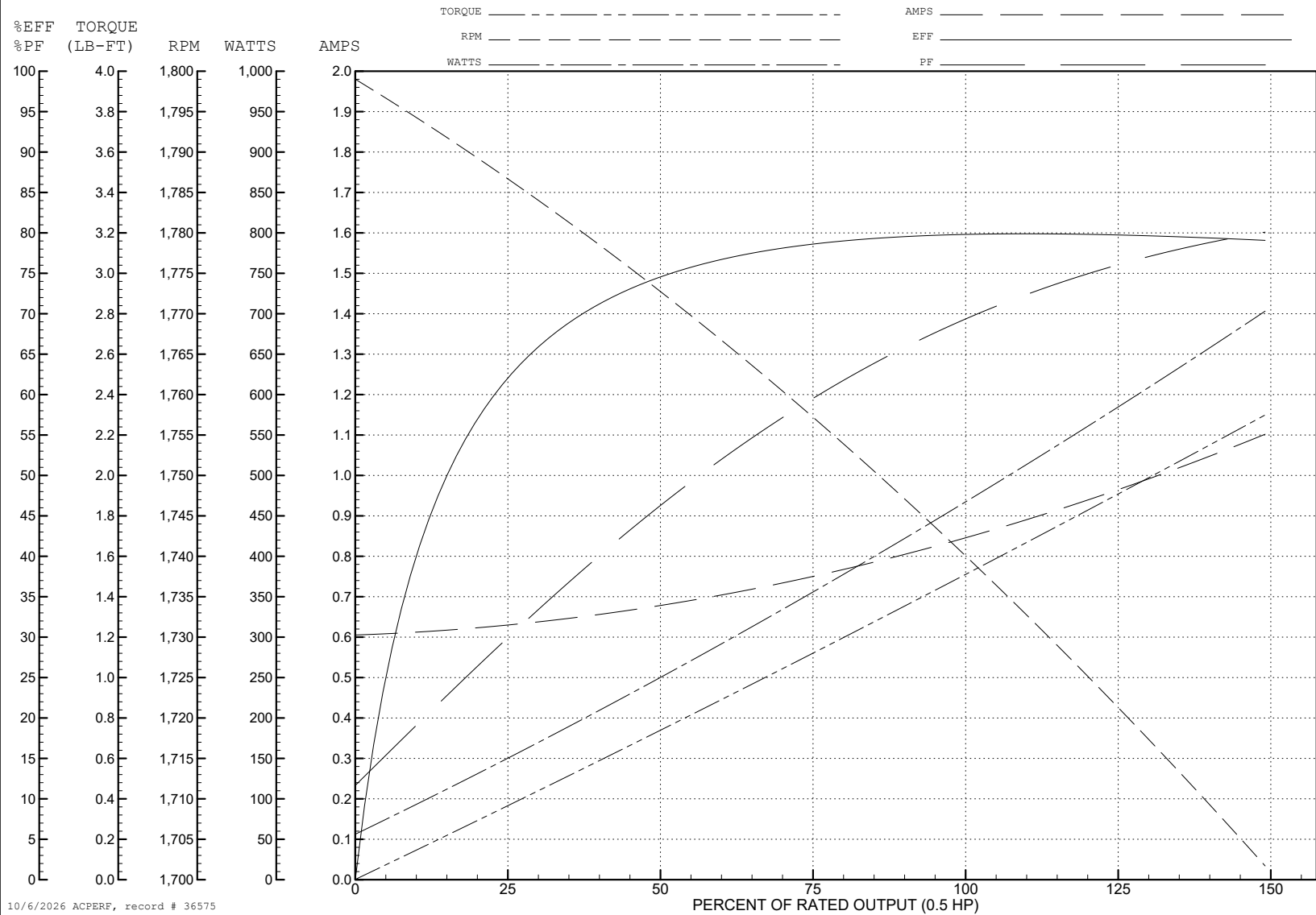
ABB Motors and Mechanical Inc.

WINDING # 35WGP863

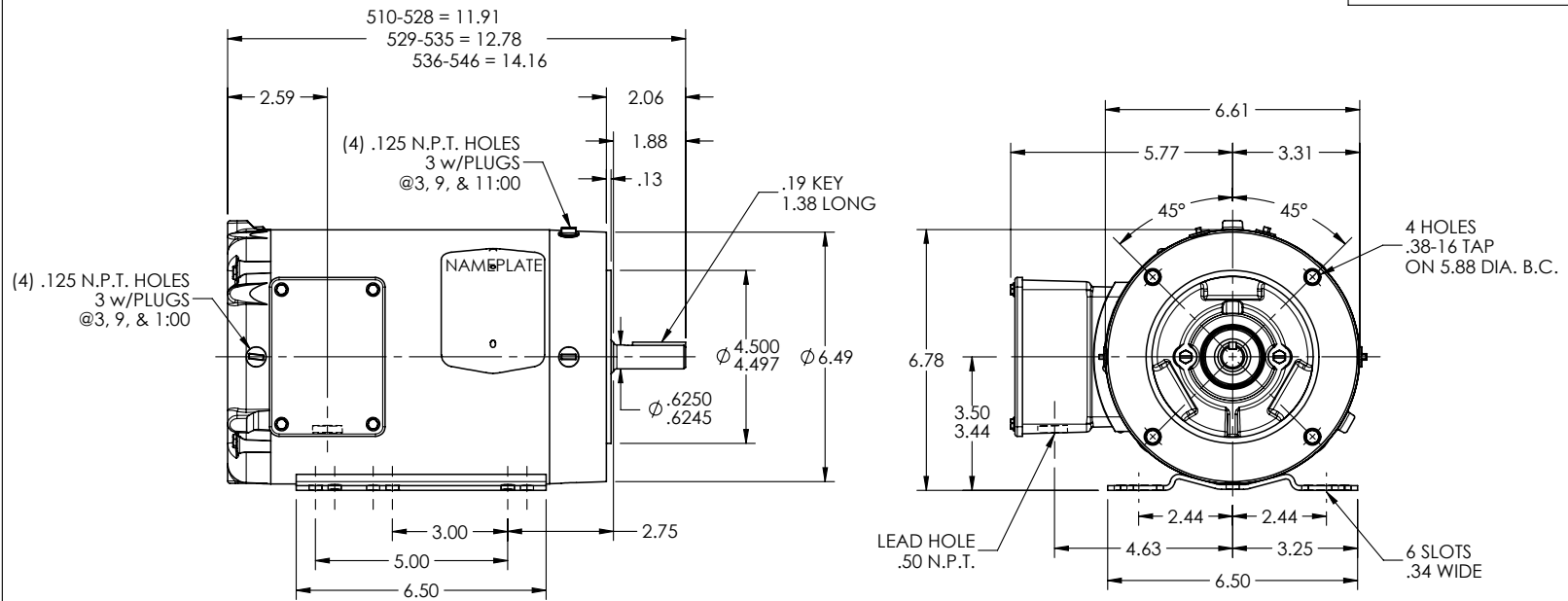
Typical performance - not guaranteed values.

0.5 HP 3 PH 60 HZ 1740 RPM 460 V 3512M

TORQUES (LB-FT) : PO=6.71 PU=4.67 LR=5.31 LRA=6.34



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

657-000-1759

MODEL NO. 35LY-000-259

BY: USBUFRA

REF: -

BALDOR - RELIANCE®

STD HORZ 56HC TENV 35M WD

35LY-000-259

