ABB BALDOR RELIANCE

Customer information packet

CFSWDM3537-5E

.5HP, 3500RPM, 3PH, 60HZ, 56C, 3516M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	56C
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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	.600 A @ 575.0 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
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.6 a
Insulation Class	H
Inverter Code	Not Inverter

Part Detail

Revision	M
Type	AC
Mech. spec.	35E4735
Base	
Status	PRD/A
Elec. spec.	35WGN872
Layout	35LYE4735
Eff. date	09-09-2026
CD Diagram	CD0006
Poles	02
Leads	3#18 15" LEAD LENGTH,0#0 DBL DIP & BAKE,0#0 PHASE INSULAY
Proprietary	False
Created date	03-16-2018

KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Finish	UNPAINTED
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	@ 0 AWG
	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.78 IN
Power Factor	84
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 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

NP4427ALA02												
CAT #	CFSWDM3537-5E			**WT**		**LBS**						
SPEC	35E4735N872G1			**ENCL**	TENV							
SER #				**CC**	010A	**IP**	69					
HP	.5			**MAG CUR**	.32							
VOLTS	575					**NEMA NOM. EFF**	84					
AMPS	.6					**PF**	84					
RATING	40C AMB-CONT											
RPM	3500				**MAX RPM**	5400						
FRAME	56C	**HZ**	60	**CODE**	N	**CLASS**	H					
SER.F.	1.15	**SF AMP**	.62			**PH**	3	**DES**	B			
DE	6205			**ODE**	6205							
LUBRICATION	POLYREX EM											
ID LOGO	**INVERTER TYPE**			**VPWM**		**CHP**	60	**TO**	90	1.5:1		
ID LOGO	**WK2**	0.036	**CT**	15	**TO**	60	4:1					
ID LOGO	**SL HZ**	1.7	**VT**	3	**TO**	60	20:1					
								QR				
YR												

AC Induction Motor Performance Data
Record # 41246
Typical performance - not guaranteed values

Winding: 35WGN872-R001	**Type:** 3516M	**Enclosure:** TENV

Nameplate Data			
Rated Output (HP)			.5
Volts			575
Full Load Amps			.6
R.P.M.			3500
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	N
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	84	**Power Factor**	84
Rating - Duty			40C AMB-CONT
S.F. Amps			

575 V, 60 Hz: Single Voltage Motor	
Full Load Torque	0.758 LB-FT
Start Configuration	direct on line
Breakdown Torque	3.91 LB-FT
Pull-up Torque	1.65 LB-FT
Locked-rotor Torque	3.18 LB-FT
Starting Current	5.93 A
No-load Current	0.323 A
Line-line Res. @ 25ºC	39.4 Ω
Temp. Rise @ Rated Load	46°C
Temp. Rise @ S.F. Load	52°C
Locked-rotor Power Factor	55
Rotor inertia	0.0443 LB-FT2

Load Characteristics 575 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	60	72	80	85	88	83
Efficiency	71.9	80.2	83.3	84.6	84.7	84	84.7
Speed	3573	3552	3528	3502	3477	3449	3487
Line amperes	0.347	0.398	0.47	0.56	0.657	0.763	0.618

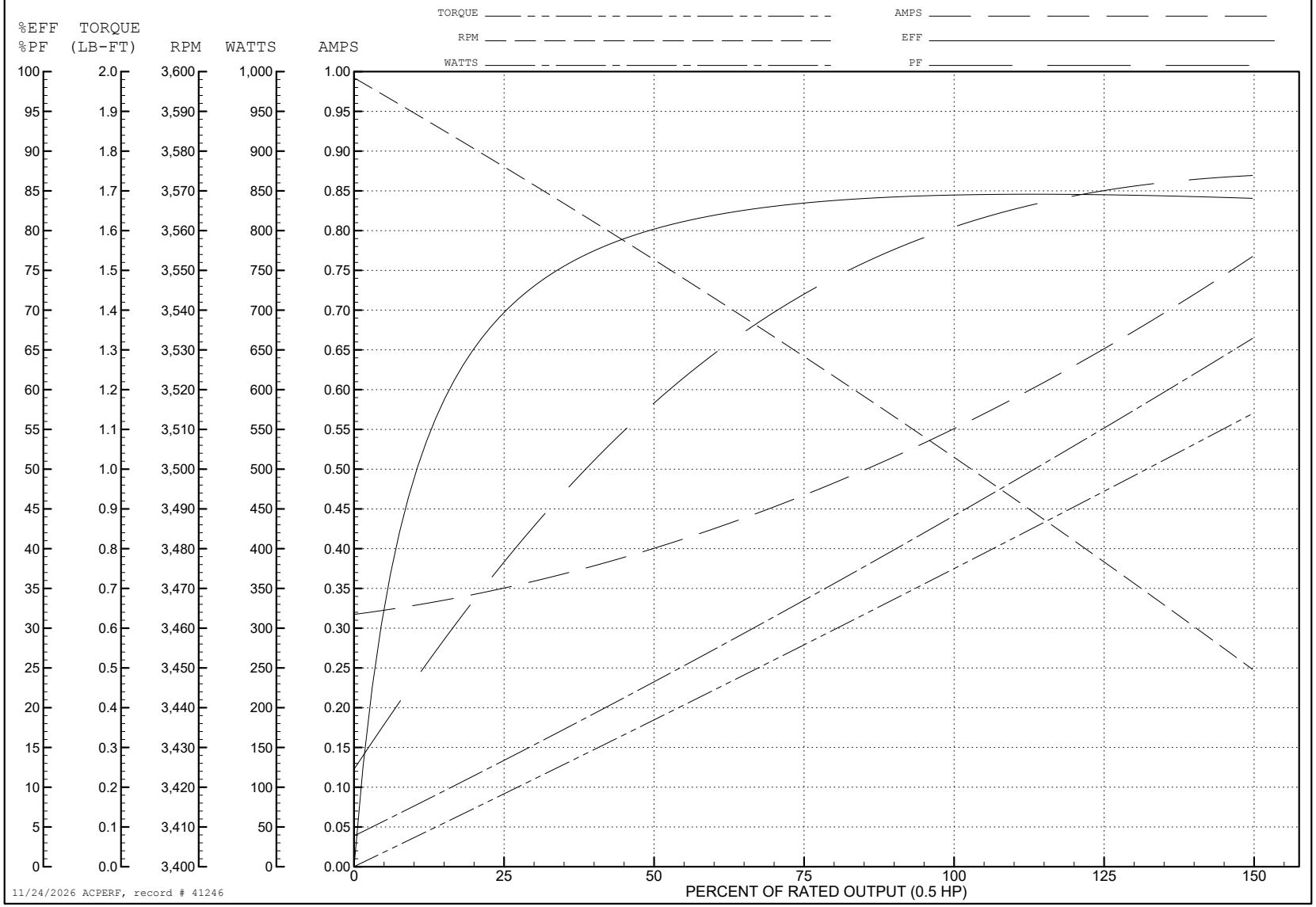
ABB Motors and Mechanical Inc.

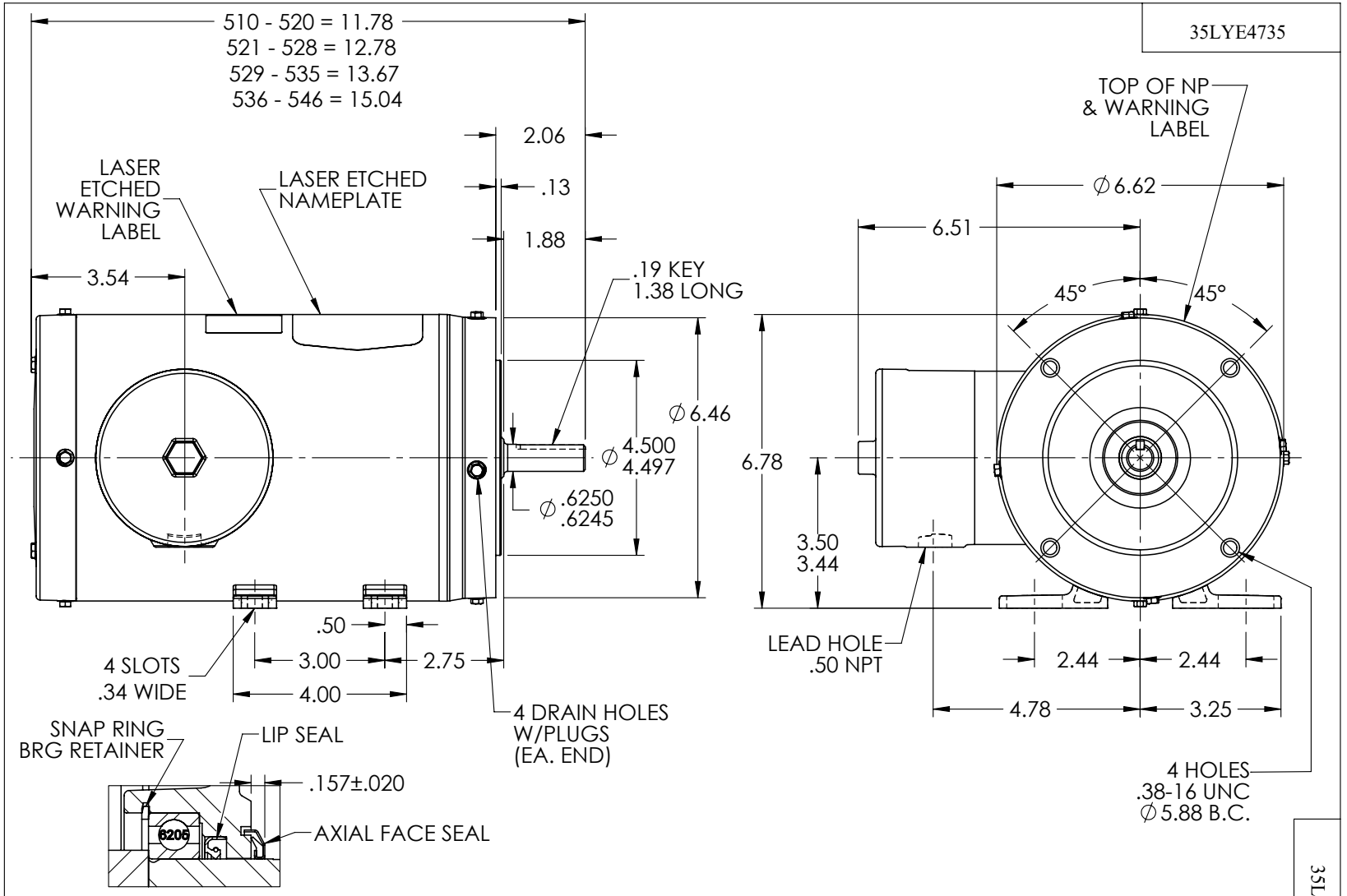
WINDING # 35WGN872

0.5 HP 3 PH 60 HZ 3500 RPM 575 V 3516M

Typical performance - not guaranteed values.

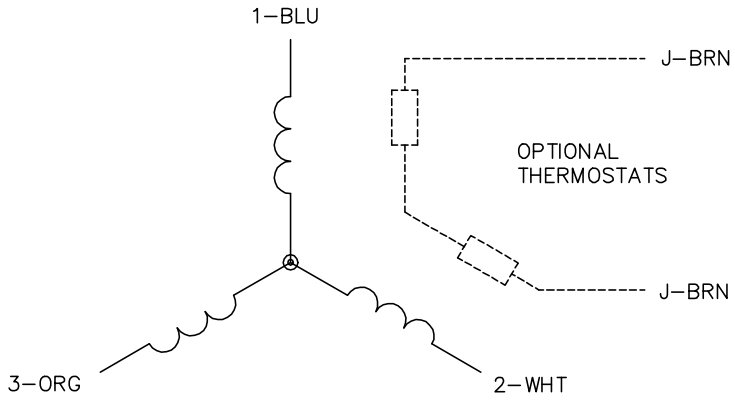
TORQUES(LB-FT): PO=3.91 PU=1.65 LR=3.18 LRA=5.93

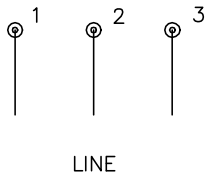



35LYE4735
510 - 520 = 11.78
521 - 528 = 12.78
529 - 535 = 13.67
536 - 546 = 15.04
2.06
.13
1.88
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
3.54
.19 KEY 1.38 LONG
∅6.46
∅4.500 4.497
∅.6250 .6245
.50
3.00
2.75
4.00
4 SLOTS .34 WIDE
4 DRAIN HOLES W/PLUGS (EA. END)
SNAP RING BRG RETAINER
LIP SEAL
.157±.020
AXIAL FACE SEAL
6206
PULLEY END DETAIL
TOP OF NP & WARNING LABEL
∅6.62
6.51
45°
45°
6.78
3.50
3.44
LEAD HOLE .50 NPT
2.44
2.44
4.78
3.25
4 HOLES .38-16 UNC ∅5.88 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: E
VERSION: 05
REVISED: 11:46:52 07/23/2026
TDR: 000001276312
BALDOR - RELIANCE®
35LYE4735
MODEL NO. 35LYE4735
REF: -
BY: USALMAZ
STD HORZ 56C TENV 35M WD11/12
35LYE4735
35LYE4735

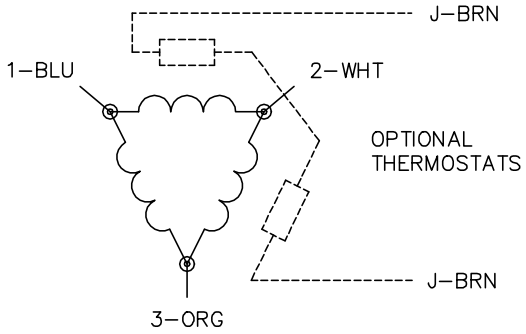
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1