ABB BALDOR RELIANCE

Customer information packet

CFSWDNM3555T-E

2HP, 3480RPM, 3PH, 60HZ, 145TC, 3546M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	145TC
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 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	2.400 A @ 460.0 V
	4.800 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
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	2.4 a

Part Detail

Revision	L
Type	AC
Mech. spec.	35E4742
Base	
Status	PRD/A
Elec. spec.	35WGL288
Layout	35LYE4742
Eff. date	04-17-2024
CD Diagram	CD0005
Poles	02
Leads	9#18 15" LEAD LENGTH,0#,0#,0# Y
Proprietary	False
Created date	07-25-2017

Insulation Class	H
Inverter Code	Not Inverter
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
	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3546M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.09 IN
Power Factor	89
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	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3480 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

NP4427AAA01												
CAT #	CFSWDNM3555T-E			**WT**	61	**LBS**						
SPEC	35E4742L288G1			**ENCL**	TENV							
SER #				**CC**	010A	**IP**	69					
HP	2			**MAG CUR**	1.7/.85							
VOLTS	230/460					**NEMA NOM. EFF**	88.5					
AMPS	4.8/2.4					**PF**	89					
RATING	40C AMB-CONT											
RPM	3480				**MAX RPM**	5400						
FRAME	145TC	**HZ**	60	**CODE**	N	**CLASS**	H					
SER.F.	1.15	**SF AMP**				**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**	0.127	**CT**	15	**TO**	60		4:1				
ID LOGO	**SL HZ**	2	**VT**	3	**TO**	60		20:1				
						QR						
YR												

AC Induction Motor Performance Data
Record # 51581
Typical performance - not guaranteed values

Winding: 35WGL288-R001	**Type:** 3546M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	3.04 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			4.8/2.4	**Breakdown Torque**	17.3 LB-FT
R.P.M.			3480	**Pull-up Torque**	6.76 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	14.8 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	29.7 A
Service Factor (S.F.)			1.15	**No-load Current**	0.876 A
NEMA Nom. Eff.	88.5	**Power Factor**	89	**Line-line Res. @ 25ºC**	5.3448 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	104°C
S.F. Amps				**Temp. Rise @ S.F. Load**	128°C

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	54	75	85	89	91	93	90
Efficiency	84.9	89.3	89.9	89.2	88.1	86.5	88.5
Speed	3568.9	3541.4	3511.5	3479.4	3445.1	3406.6	3459
Line amperes	1.06	1.41	1.86	2.37	2.92	3.52	2.7

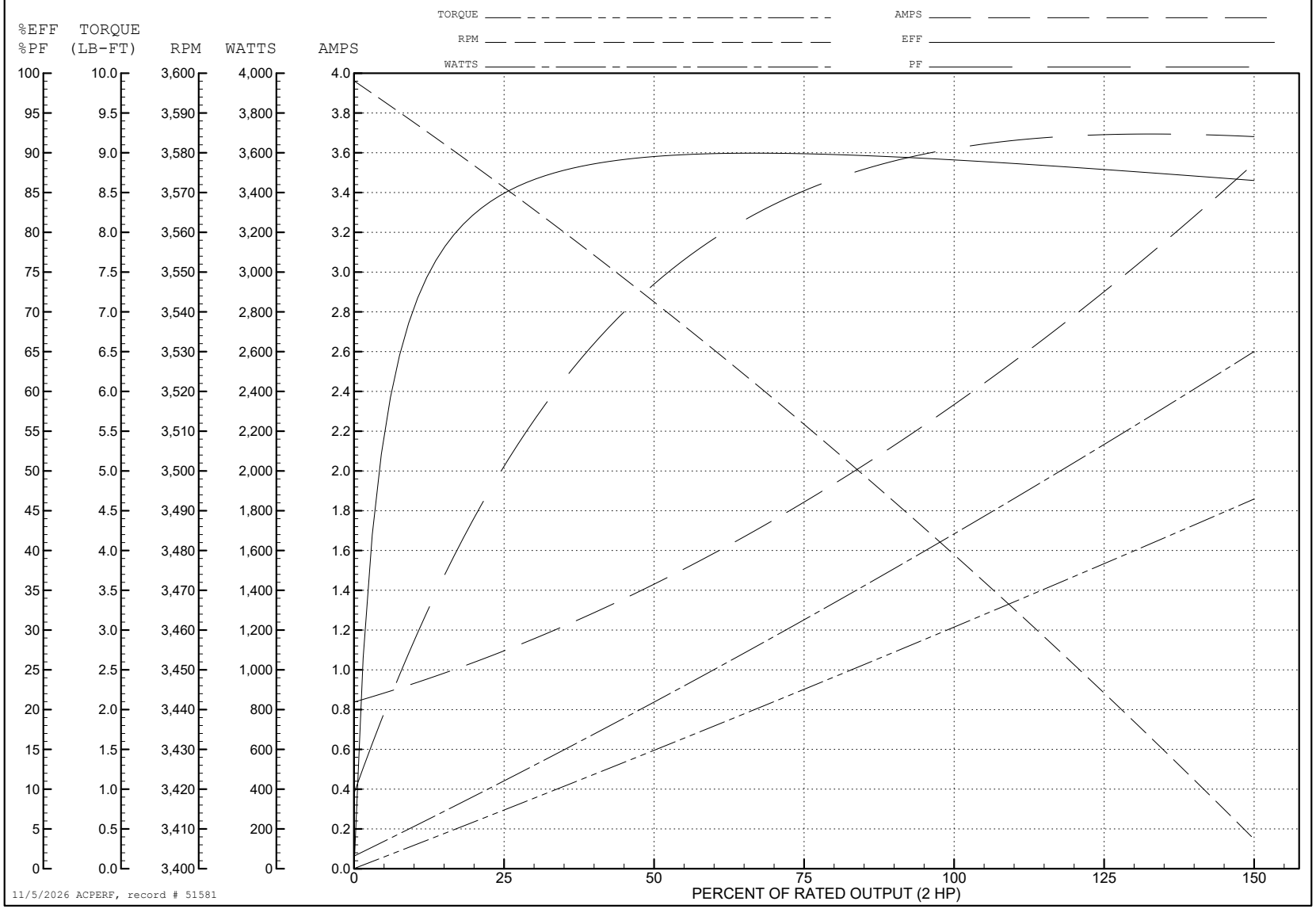
ABB Motors and Mechanical Inc.

WINDING # 35WGL288

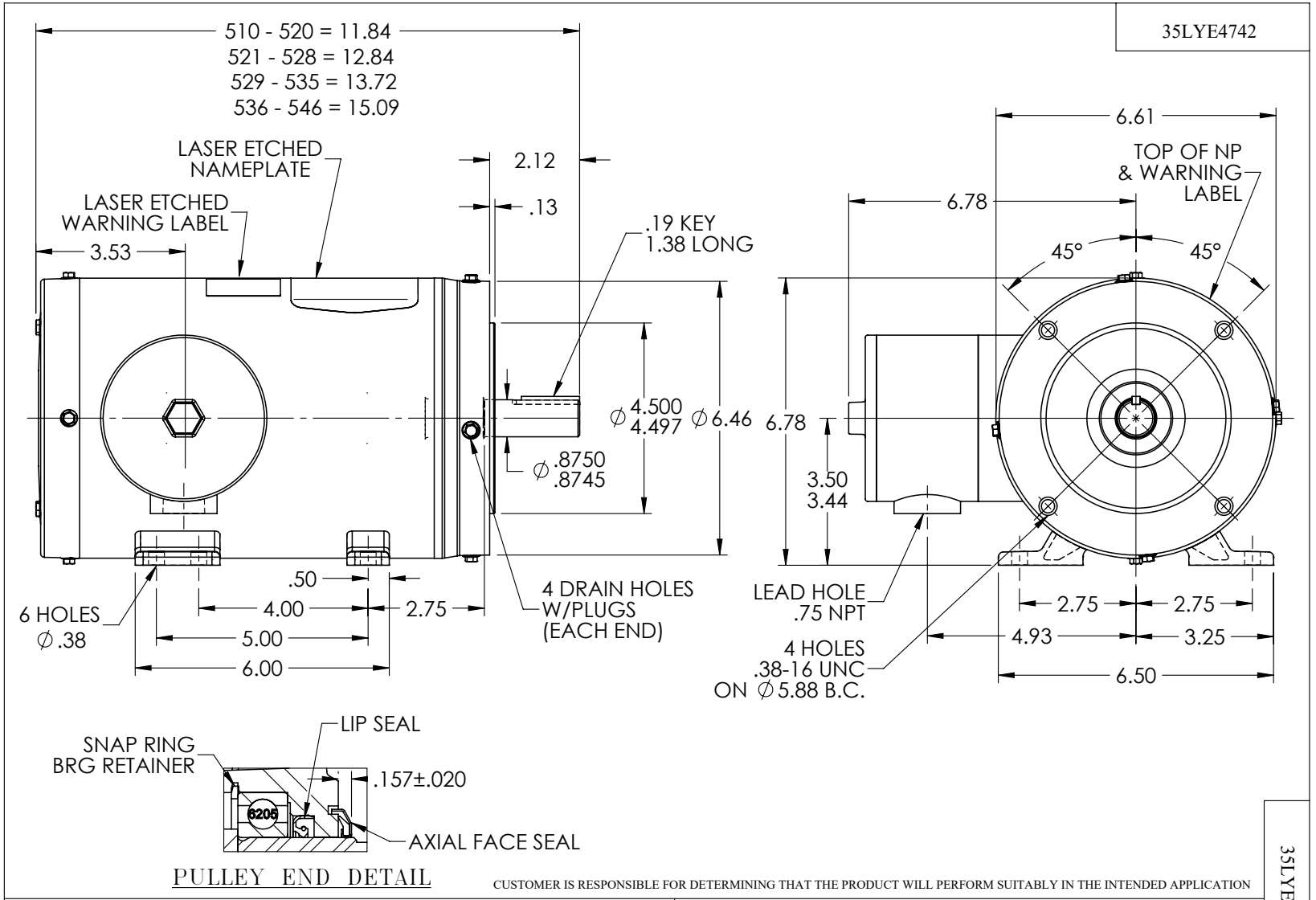
2 HP 3 PH 60 HZ 3480 RPM 460 V 3546M

Typical performance - not guaranteed values.

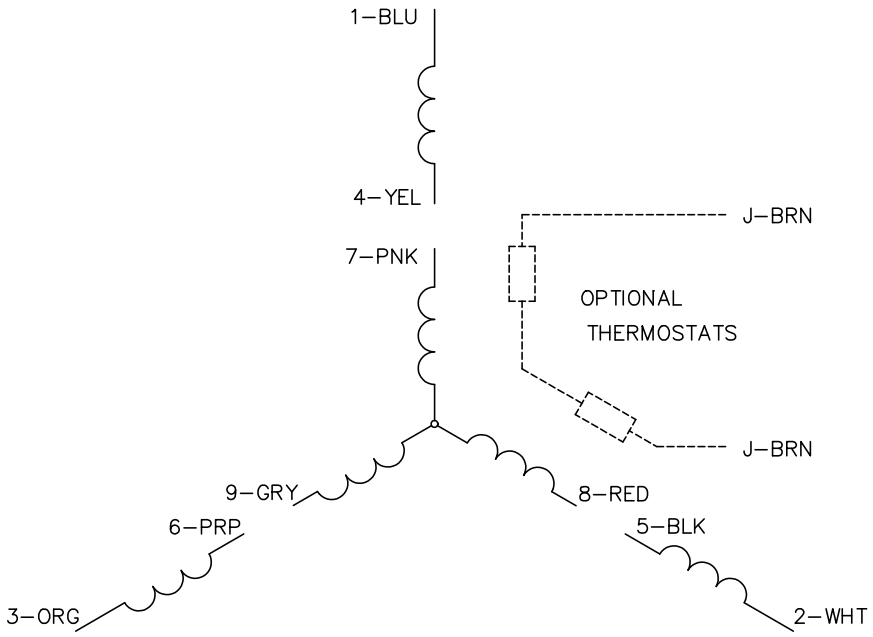
TORQUES(LB-FT): PO=17.3 PU=6.76 LR=14.8 LRA=29.7

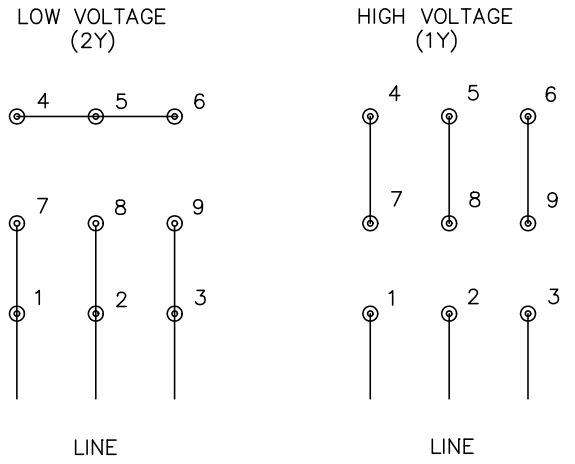


11/5/2026 ACPERF, record # 51581


35LYE4742
510 - 520 = 11.84
521 - 528 = 12.84
529 - 535 = 13.72
536 - 546 = 15.09
LASER ETCHED NAMEPLATE
LASER ETCHED WARNING LABEL
3.53
2.12
.13
.19 KEY 1.38 LONG
∅4.500 4.497
∅6.46
∅.8750 .8745
6 HOLES ∅.38
.50
4.00
2.75
5.00
6.00
4 DRAIN HOLES W/PLUGS (EACH END)
6.61
TOP OF NP & WARNING LABEL
6.78
45°
45°
6.78
3.50 3.44
LEAD HOLE .75 NPT
4 HOLES .38-16 UNC ON ∅5.88 B.C.
2.75
2.75
4.93
3.25
6.50
LIP SEAL
SNAP RING BRG RETAINER
.157±.020
6206
AXIAL FACE SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: F
VERSION: 06
REVISED: 12:58:55 07/23/2026
TDR: 000001276312
BALDOR - RELIANCE®
35LYE4742
MODEL NO. 35LYE4742
REF: -
BY: USALMAZ
STD HORZ 143/5TC TENV 35M WD11/12
35LYE4742
35LYE4742

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