ABB BALDOR RELIANCE

Customer information packet

CFSWDM3559T-E

3HP, 3470RPM, 3PH, 60HZ, 145TC, 3546M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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	3.000 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	3.700 A @ 460.0 V
	7.400 A @ 230.0 V
	7.700 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	L
Type	AC
Mech. spec.	35E4743
Base	
Status	PRD/A
Elec. spec.	35WGR930
Layout	35LYE4743
Eff. date	08-14-2023
CD Diagram	CD0005
Poles	02
Leads	9#18,0#,0#,0# Y
Proprietary	False
Created date	07-28-2017

High Voltage Full Load Amps	3.7 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	P
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	3546M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.28 IN
Power Factor	91
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	3470 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 #	CFSWDM3559T-E			**WT**	61	**LBS**						
SPEC	35E4743R930G2			**ENCL**	TEFC							
SER #				**CC**	010A	**IP**	69					
HP	3			**MAG CUR**	2.6/1.3							
VOLTS	230/460					**NEMA NOM. EFF**	86.5					
AMPS	7.4/3.7					**PF**	91					
RATING	40C AMB-CONT											
RPM	3470					**MAX RPM**	5400					
FRAME	145TC	**HZ**	60			**CODE**	P	**CLASS**	H			
SER.F.	1.15	**SF AMP**				**PH**	3	**DES**	A			
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**	2.2	**VT**	3	**TO**	60		20:1				
						QR						
YR												

AC Induction Motor Performance Data
Record # 57380
Typical performance - not guaranteed values

Winding: 35WGR930-R012	**Type:** 3546M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			7.4/3.7	**Breakdown Torque**	17.2 LB-FT
R.P.M.			3470	**Pull-up Torque**	10.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	17 LB-FT
NEMA Design Code	A	**KVA Code**	P	**Starting Current**	48.3 A
Service Factor (S.F.)			1.15	**No-load Current**	1.25 A
NEMA Nom. Eff.	86.5	**Power Factor**	91	**Line-line Res. @ 25ºC**	3.47 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps				**Temp. Rise @ S.F. Load**	74°C
				Locked-rotor Power Factor	42.3
				Rotor inertia	0.127 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	59	79	87	90	91	90	91
Efficiency	80.1	86.4	87.3	86.9	85.7	83.9	86.2
Speed	3567	3541	3510	3479	3443	3403	3457
Line amperes	1.53	2.07	2.78	3.55	4.42	5.4	4.07

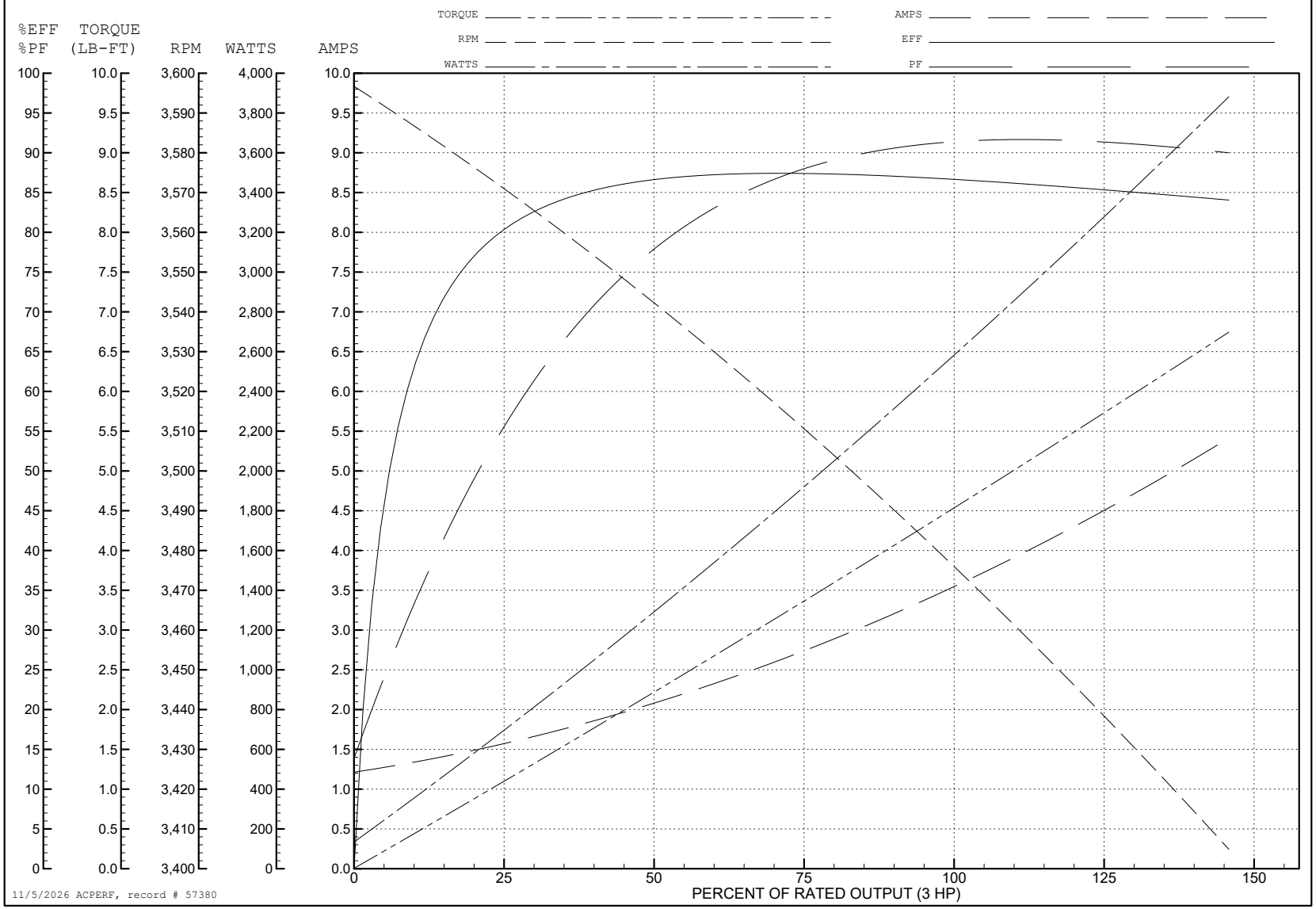
ABB Motors and Mechanical Inc.

WINDING # 35WGR930

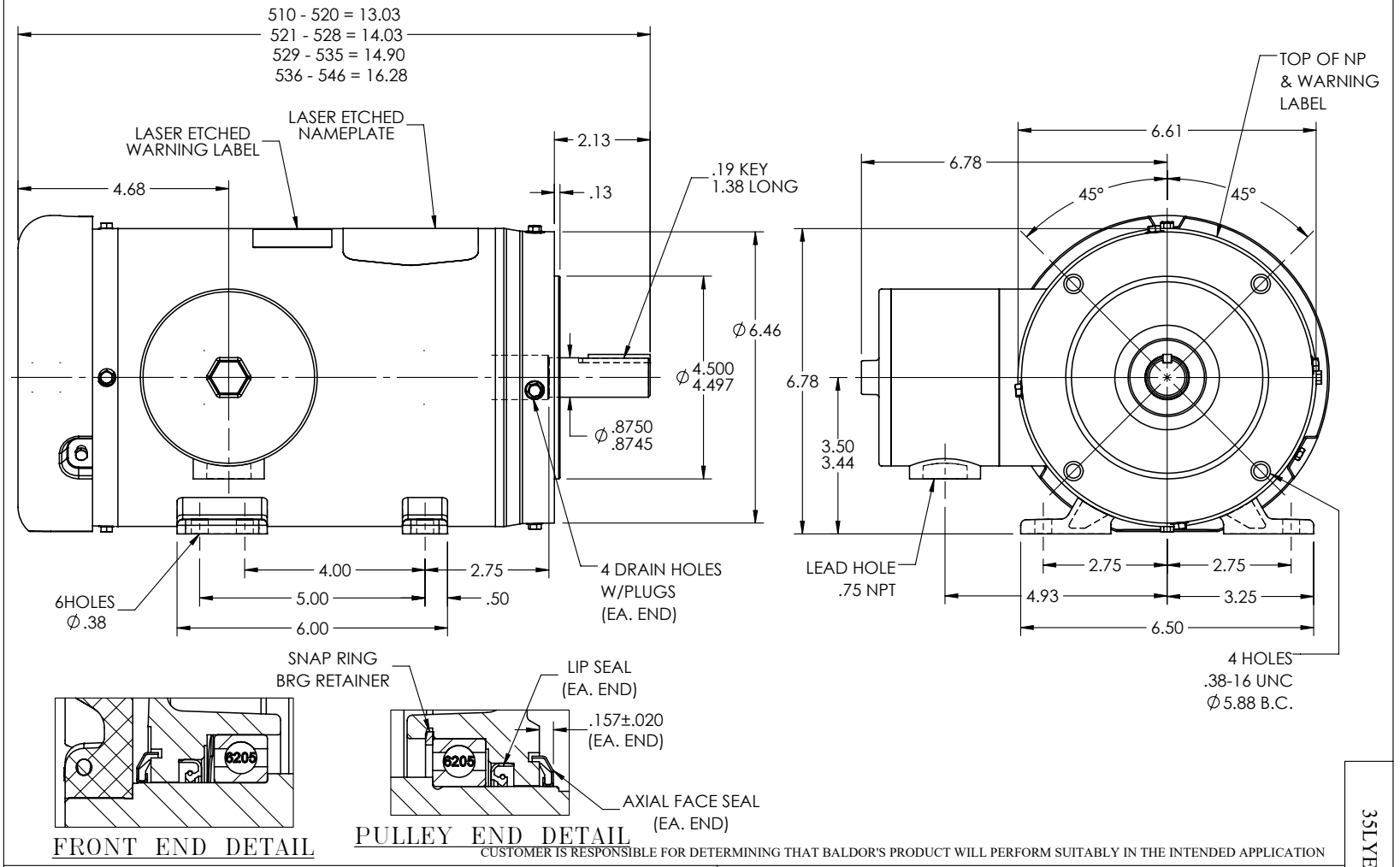
3 HP 3 PH 60 HZ 3470 RPM 460 V 3546M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=17.2 PU=10.5 LR=17 LRA=48.3



35LYE4743



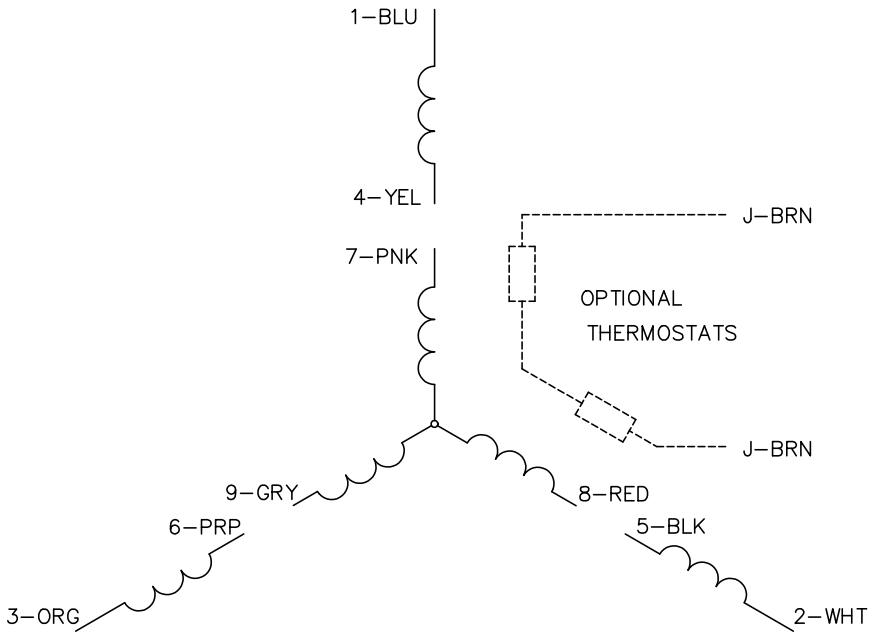
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

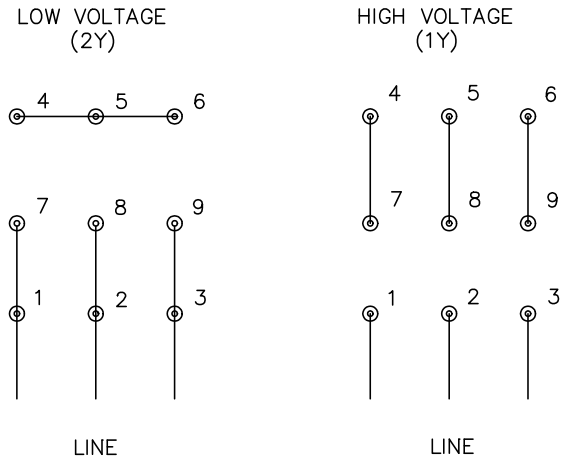
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION			
REV: E	VERSION: 05	REVISED: 01:08:57 07/23/2026	TDR: 000001276312
35LYE4743	MODEL NO. 35LYE4743		REF: -
	BY: USALMAZ		STD HORZ 143-5TC TEFC 35M WD11/12

BALDOR

35LYE4743

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