

ABB BALDOR RELIANCE III

Customer information packet

CFSWDM3559T-E

3HP, 3470RPM, 3PH, 60HZ, 145TC, 3546M, TEFC, F1

Class - None

Division - Not Applicable

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. @ 25°C		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

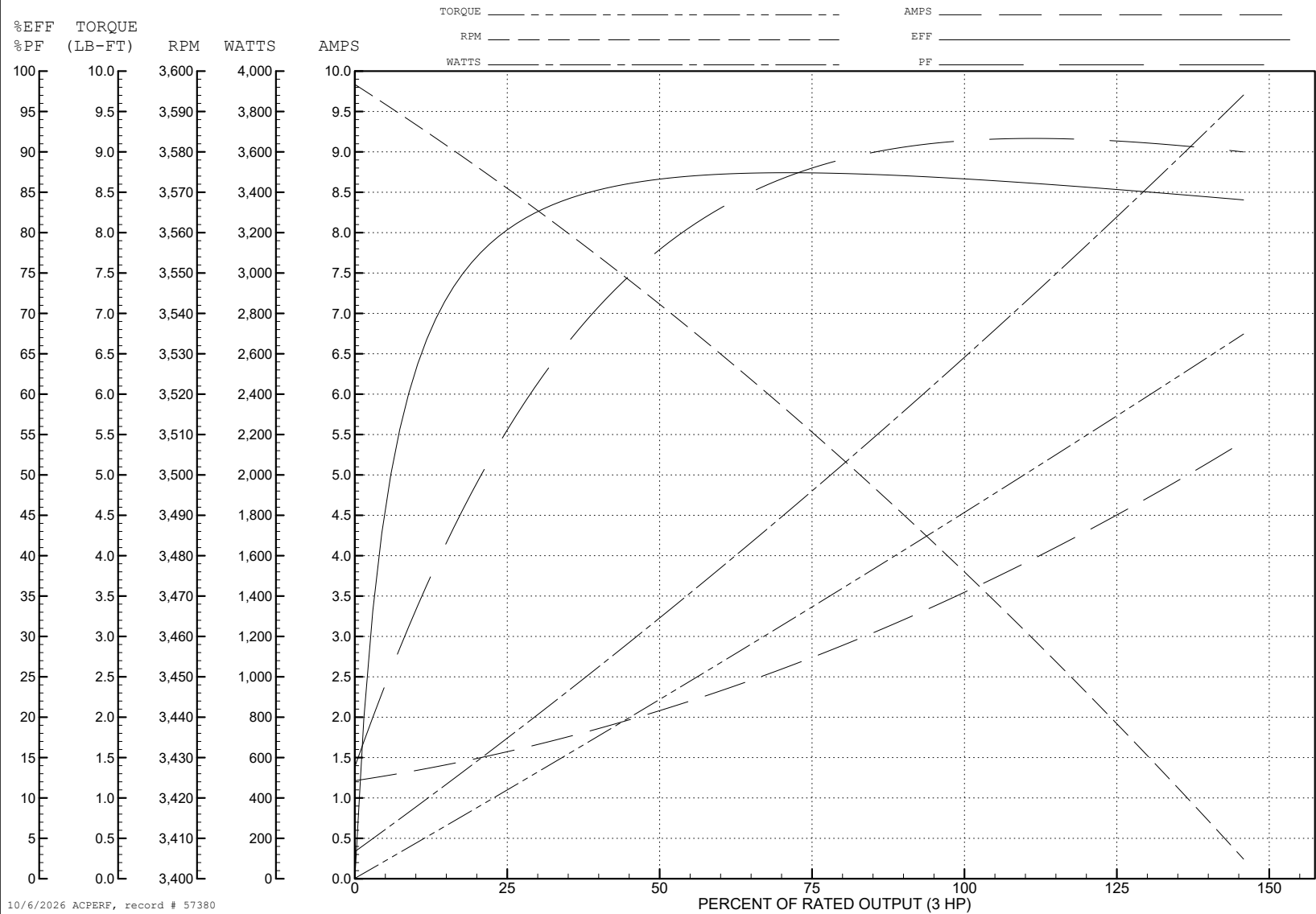
ABB Motors and Mechanical Inc.

WINDING # 35WGR930

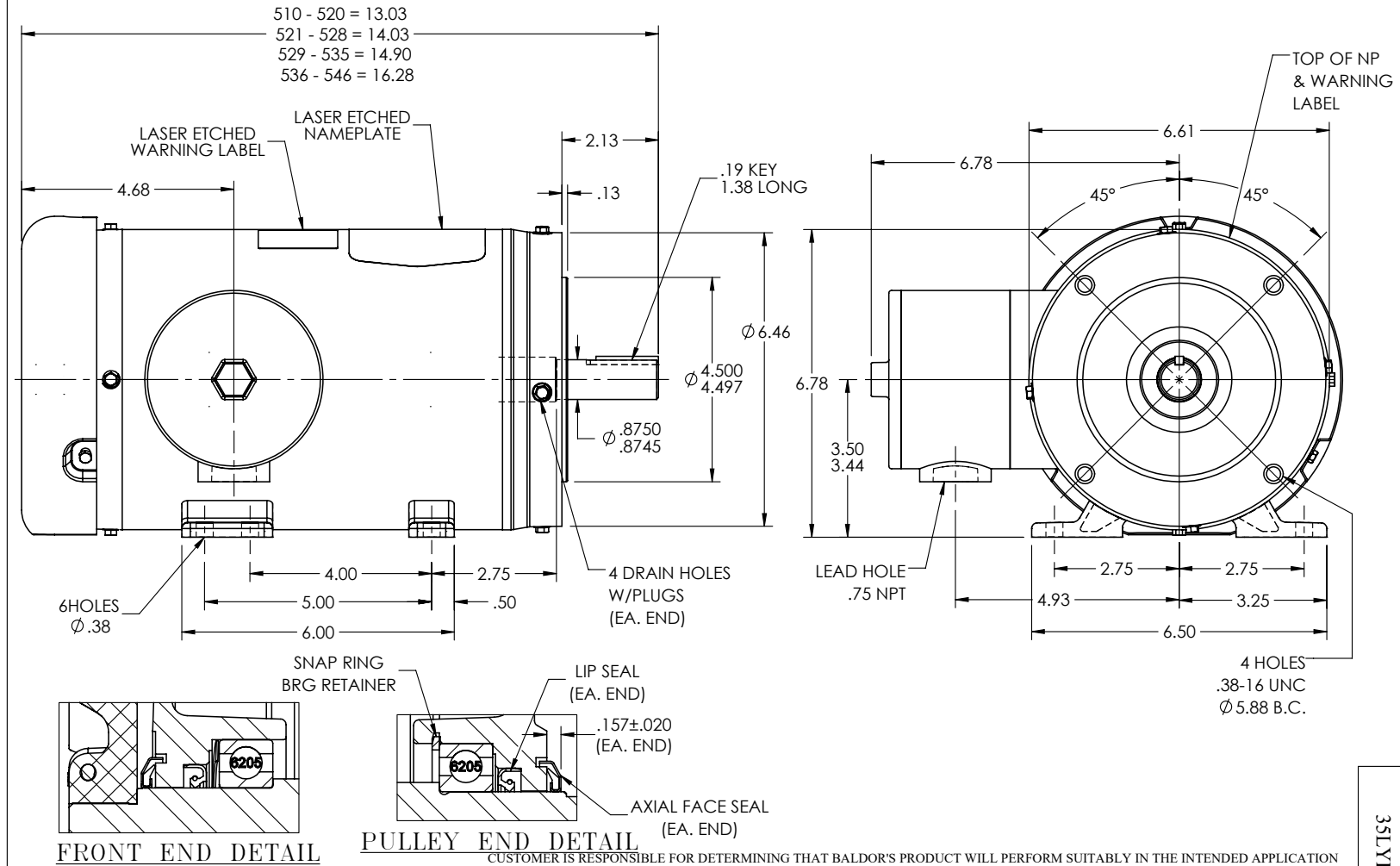
Typical performance - not guaranteed values.

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

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



35LYE4743



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

BY: USALMAZ

REF: -

BALDOR

STD HORZ 143-5TC TEFC 35M WD11/12

35LYE4743

