ABB BALDOR RELIANCE

Customer information packet

05E943W625G1

1HP, 1750RPM, 3PH, 60HZ, 145TC, 0524M, TEFC, F1
Class -
Division - Division II

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Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	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	1.100 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	1.1 a
Insulation Class	F

Part Detail

Revision	Y
Type	AC
Mech. spec.	05E943
Base	
Status	NLA/A
Elec. spec.	05WGW625
Layout	05LYE943
Eff. date	10-28-2015
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	07-27-2006

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0524M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.38 IN
Power Factor	77
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
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	Shaft Slinger
Speed	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2162E								
CAT.NO.								
SPEC.	05E943W625G1							
HP	1			**T. CODE**		T3		
VOLTS	575							
AMP	1.1							
RPM	1750							
FRAME	145TC	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F	
NEMA-NOM-EFF	85.5	**PF**	77					
CC	010A							
RATING	40C AMB-CONT							
DE	6205	**ODE**	6205					
ENCL	TEFC	**SN**						
	10:1 CT PWM TYPE							

NP2113E					
SPEC.	05E943W625G1				
MOTOR WEIGHT	67	**# OF ROTOR BARS**	28		
GREASE	POLYREX EM				
MAX. KVAR	.30			**# OF STATOR SLOTS**	36
BLANK					
HTR-VOLTS	N/A	**HTR-AMPS**	N/A		
MAX. SPACE HEATER TEMP.	N/A				

AC Induction Motor Performance Data
Record # 28415
Typical performance - not guaranteed values

Winding: 05WGW625-R001	**Type:** 0524M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1	**Full Load Torque**	3 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.1	**Breakdown Torque**	12.8 LB-FT
R.P.M.			1750	**Pull-up Torque**	8.44 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	10.8 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	9.95 A
Service Factor (S.F.)			1.15	**No-load Current**	0.63 A
NEMA Nom. Eff.	85.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	20.3 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	23°C
S.F. Amps				**Temp. Rise @ S.F. Load**	27°C

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	57	69	78	80	82	79
Efficiency	78	84.6	86.5	86.6	86	84.6	86.2
Speed	1786	1774	1761	1746	1730	1712	1736
Line amperes	0.71	0.792	0.952	1.11	1.35	1.59	1.25

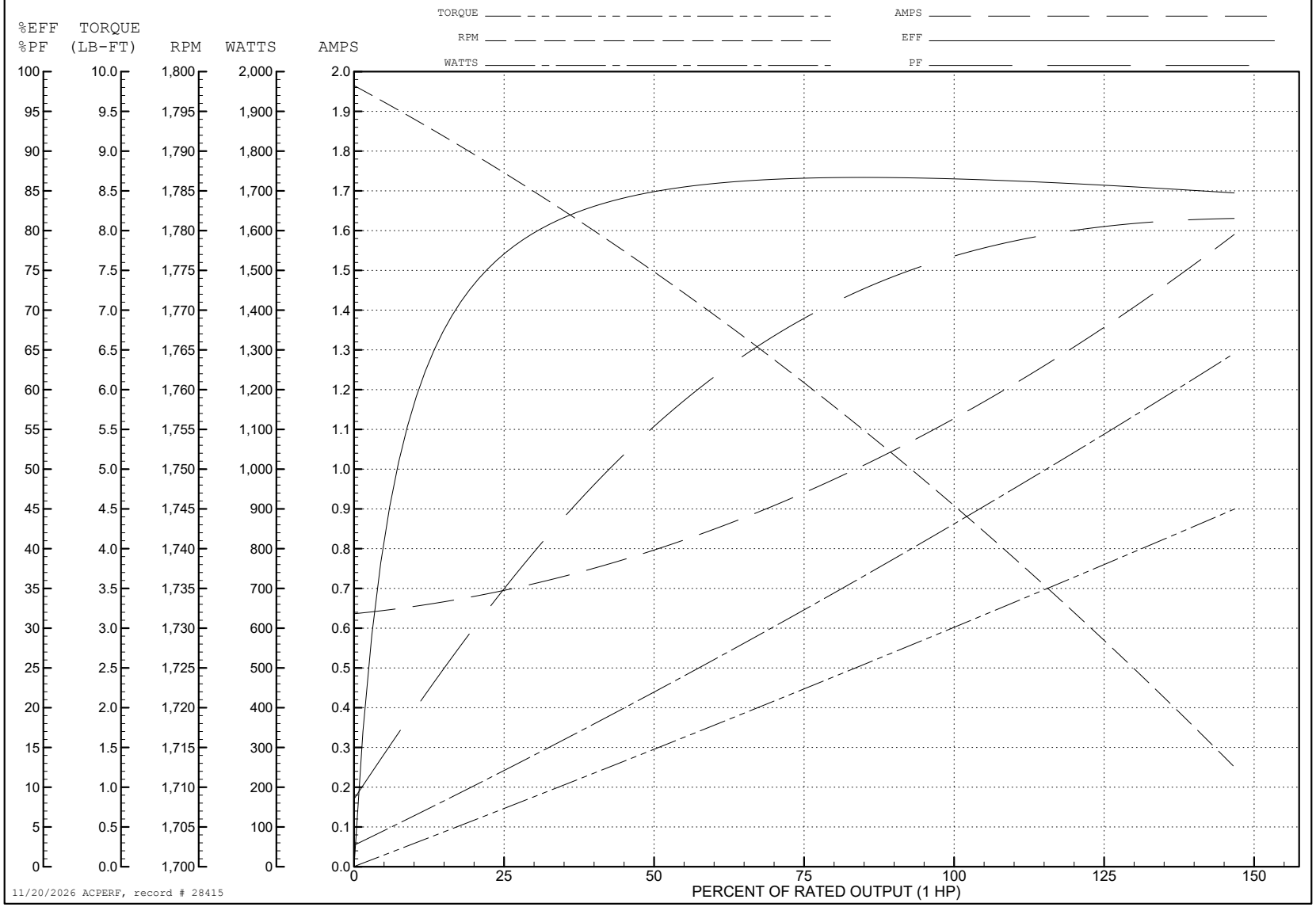
ABB Motors and Mechanical Inc.

WINDING # 05WGW625

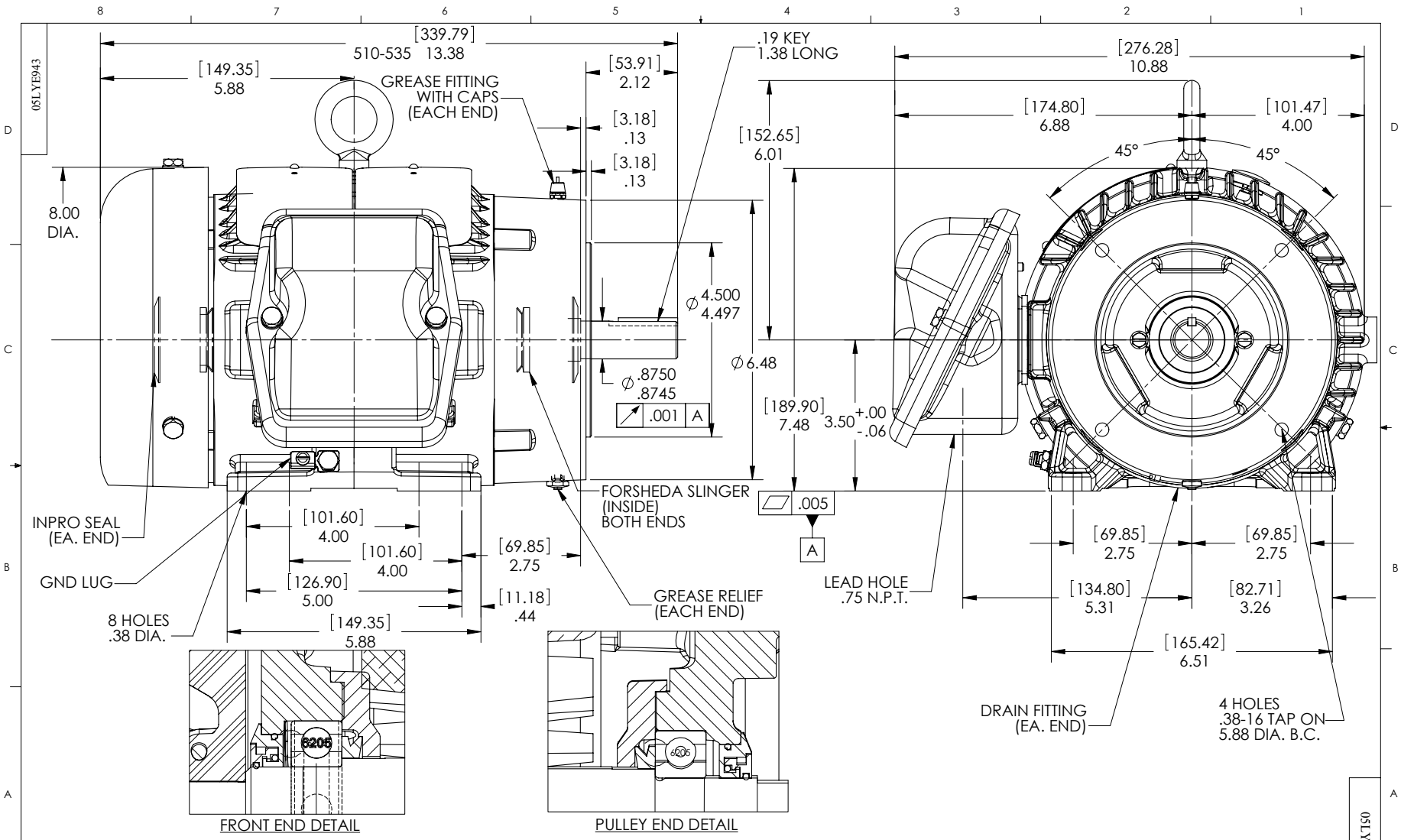
1 HP 3 PH 60 HZ 1750 RPM 575 V 0524M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=12.8 PU=8.44 LR=10.8 LRA=9.95

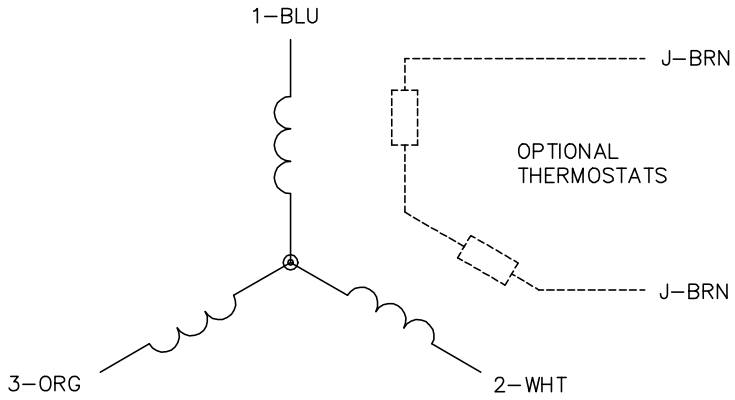


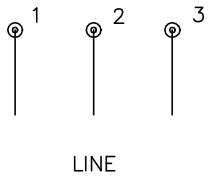
11/20/2026 ACPERF, record # 28415


[339.79]
510-535 13.38
[149.35]
5.88
GREASE FITTING
WITH CAPS
(EACH END)
[53.91]
2.12
[3.18]
.13
[3.18]
.13
.19 KEY
1.38 LONG
[276.28]
10.88
[174.80]
6.88
[101.47]
4.00
45°
45°
[152.65]
6.01
8.00
DIA.
⌀4.500
4.497
⌀6.48
⌀.8750
.8745
.001 A
[189.90]
7.48
3.50 +.00 -.06
.005
A
FORSHEDA SLINGER
(INSIDE)
BOTH ENDS
INPRO SEAL
(EA. END)
GND LUG
8 HOLES
.38 DIA.
[101.60]
4.00
[101.60]
4.00
[126.90]
5.00
[69.85]
2.75
[11.18]
.44
[149.35]
5.88
GREASE RELIEF
(EACH END)
LEAD HOLE
.75 N.P.T.
[69.85]
2.75
[69.85]
2.75
[134.80]
5.31
[82.71]
3.26
[165.42]
6.51
DRAIN FITTING
(EA. END)
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C.
6205
6205
FRONT END DETAIL
PULLEY END DETAIL
REV. DESC: ADD MISSING STACK RANGES
REV: F
VERSION: 06
REVISED: 04:14:07 11/30/2023
TDR: 000001221166
MODEL NO. 05LYE943
REF:
BY: USTRTAY1
B
BALDOR ELECTRIC Co.
HOR 143-5TC TEFC 05M IEEE841 W/LOCKED PU.BRG & INPRO'S
05LYE943

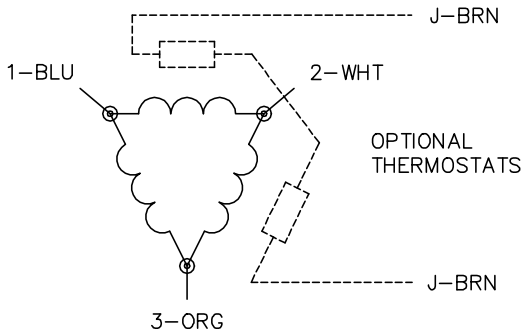
CD0006

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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1