

ABB BALDOR RELIANCE III

Customer information packet

ECP83660T-4

3HP, 3450RPM, 3PH, 60HZ, 182T, 0630M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	182T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM 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
Constant Torque Speed Range	6
Current @ Voltage	3.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C

Part Detail

Revision	M
Type	AC
Mech. spec.	06H759
Base	
Status	PRD/A
Elec. spec.	06WGY599
Layout	06LYH759
Eff. date	01-29-2026
CD Diagram	CD0006
Poles	02
Leads	3#16
Proprietary	False
Created date	07-16-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	3.4 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	0630M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.93 IN
Power Factor	93
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
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft 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

NP4328									
CAT.NO.	ECP83660T-4								
SPEC.	06H759Y599G1								
HP	3 TE				IP	56			
VOLTS	460								
AMPS	3.4								
R.P.M.	3480								
FRAME	182T		HZ		60		PH	3	
SER.F.	1.15	CODE	K	DES.	B	CLASS		F	
RATING	40C AMB-CONT								
SN									
DE	6206		ODE		6206				
NEMA NOM. EFF.	86.5		P.F.		93				
GUAR. MIN. EFF.	84		CC		010A				
T. CODE	T3C		TEMP=		160				

NP3186

SPEC.	06H759Y599G1				
ABMA DE BRG	30BC02X30X				
ABMA ODE BRG	30BC02X30X				
GREASE	POLYREX EM				
MOTOR WEIGHT	116	ROTOR BARS	28	STATOR BARS	36
MAX. R.P.M.	5400	MAX. KVAR	.17		
INV.TYPE	PWM				
T=	160				
CHP	60	TO	90		
CT	6	TO	60		
VT	3	TO	60		
HTR-VOLTS	N/A	HTR-AMPS	N\A		
HTR-WATTS	N/A	MAX. SPACE HEATER TEMP.			N/A

AC Induction Motor Performance Data

Record # 84201

Typical performance - not guaranteed values

Winding: 06WGY586-R001			Type: 0630M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		3	Full Load Torque		4.544 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		3.4	Breakdown Torque		20.8 LB-FT		
R.P.M.		3450	Pull-up Torque		6.88 LB-FT		
Hz		60	Phase		3	Locked-rotor Torque	12.8 LB-FT
NEMA Design Code		B	KVA Code		K	Starting Current	30.5 A
Service Factor (S.F.)		1.15				No-load Current	0.912 A
NEMA Nom. Eff.		86.5	Power Factor		93	Line-line Res. @ 25°C	5.4847 Ω
Rating - Duty		40C	AMB-CONT			Temp. Rise @ Rated Load	38°C
S.F. Amps						Temp. Rise @ S.F. Load	47°C
						Locked-rotor Power Factor	48.1

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	68	85	91	93	94	94	94
Efficiency	82.3	87.6	88.2	87.4	85.9	84.1	86.5
Speed	3570.4	3542.7	3513.2	3480.4	3443.6	3404.8	3458
Line amperes	1.26	1.9	2.65	3.47	4.38	5.33	4.02

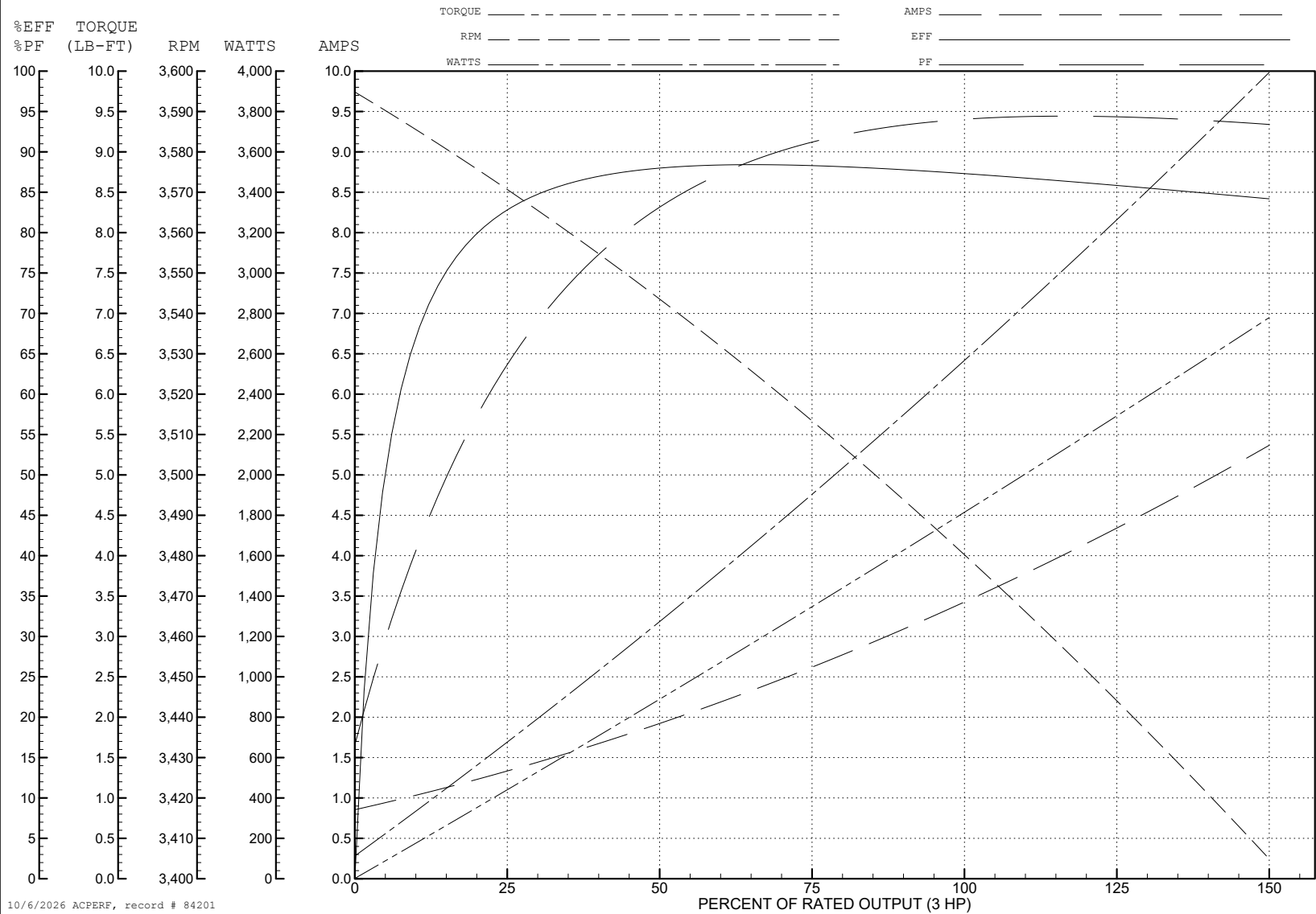
ABB Motors and Mechanical Inc.

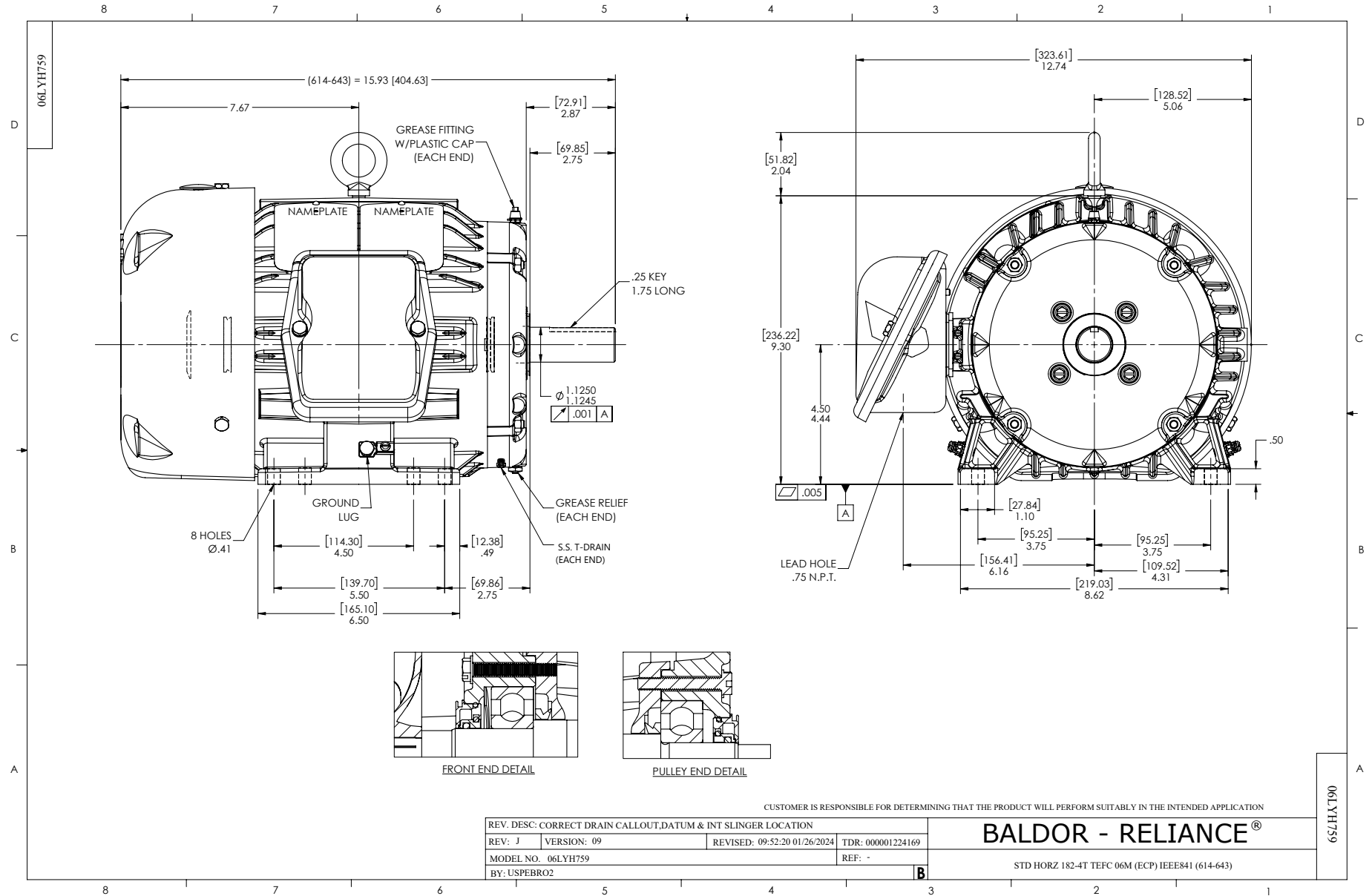
WINDING # 06WGY586

Typical performance - not guaranteed values.

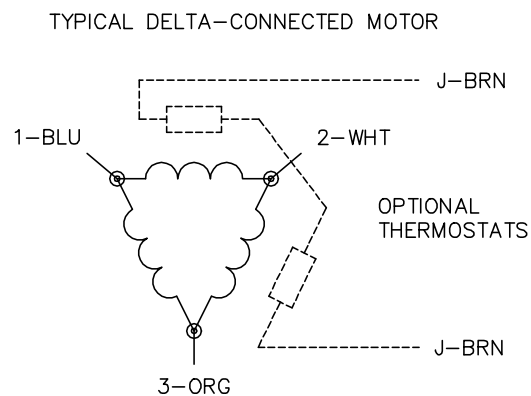
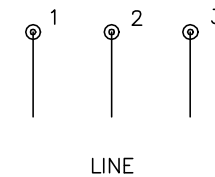
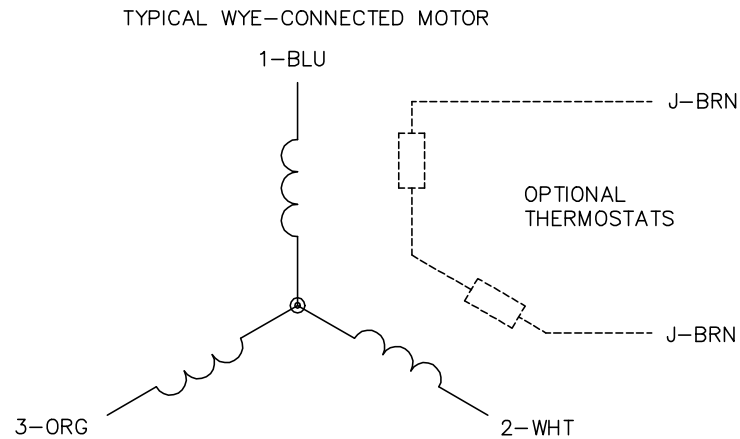
3 HP 3 PH 60 HZ 3450 RPM 460 V 0630M

TORQUES (LB-FT) : PO=20.8 PU=6.88 LR=12.8 LRA=30.5





CD0006


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: ENBRIRO

MTL: —


BALDOR - RELIANCE®

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

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