

ABB BALDOR RELIANCE III

Customer information packet

ECP3660T

3HP, 3500RPM, 3PH, 60HZ, 182T, 0628M, 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	CL I 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 230.0 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	7.500 A @ 208.0 V 6.800 A @ 230.0 V 3.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	AA
Type	AC
Mech. spec.	06H483
Base	
Status	PRD/A
Elec. spec.	06WGW036
Layout	06LYH483
Eff. date	04-12-2024
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	05-13-2010

Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	3.4 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0628M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.93 IN
Power Factor	92
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3500 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

NP3257									
CAT.NO.	ECP3660T								
SPEC.	06H483W036G1								
HP	3 TE								
VOLTS	230/460								
AMP	6.8/3.4								
RPM	3500								
FRAME	182T	HZ		60		PH		3	
SER.F.	1.15	CODE		L	DES		B	CL F	
RATING	40C AMB-CONT								
SN									
DE	6206	ODE		6206					
NEMA-NOM-EFF	88.5	PF		92					
G.MIN.EFF	86.5	CC		010A					
T. CODE	T3C	T=		160					

NP3260			
SPEC.	06H483W036G1		
D.E. BRG.	30BC02XP30X		
O.D.E. BRG.	30BC02XP30X		
GREASE	POLYREX EM		
RPM MAX	5400	MAX. KVAR	N/A
BLANK			
INV.TYPE	PWM		
T=	160		
C HP FR	60	C HP TO	90
CT HZ FROM	6	CT HZ TO	60
VT HZ FROM	3	VT HZ TO	60
HTR-VOLTS		HTR-AMPS	
HTR-WATTS		MAX. SPACE HEATER TEMP.	

AC Induction Motor Performance Data

Record # 47052

Typical performance - not guaranteed values

Winding: 06WGW036-R021			Type: 0628M		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		6.8/3.4	Breakdown Torque		23.3 LB-FT		
R.P.M.		3500	Pull-up Torque		15.2 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		16 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		32 A
Service Factor (S.F.)		1.15	No-load Current		1.06 A		
NEMA Nom. Eff.		88.5	Power Factor	92	Line-line Res. @ 25°C		4.1 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		32°C
S.F. Amps					Temp. Rise @ S.F. Load		39°C
					Locked-rotor Power Factor		44.2
					Rotor inertia		0.126 LB-FT ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	64	83	90	93	95	99	93
Efficiency	81.2	87.5	89.2	89.3	88.9	88.2	89.1
Speed	3577	3556	3534	3509	3487	3467	3500
Line amperes	1.39	1.96	2.66	3.4	4.12	4.79	3.83

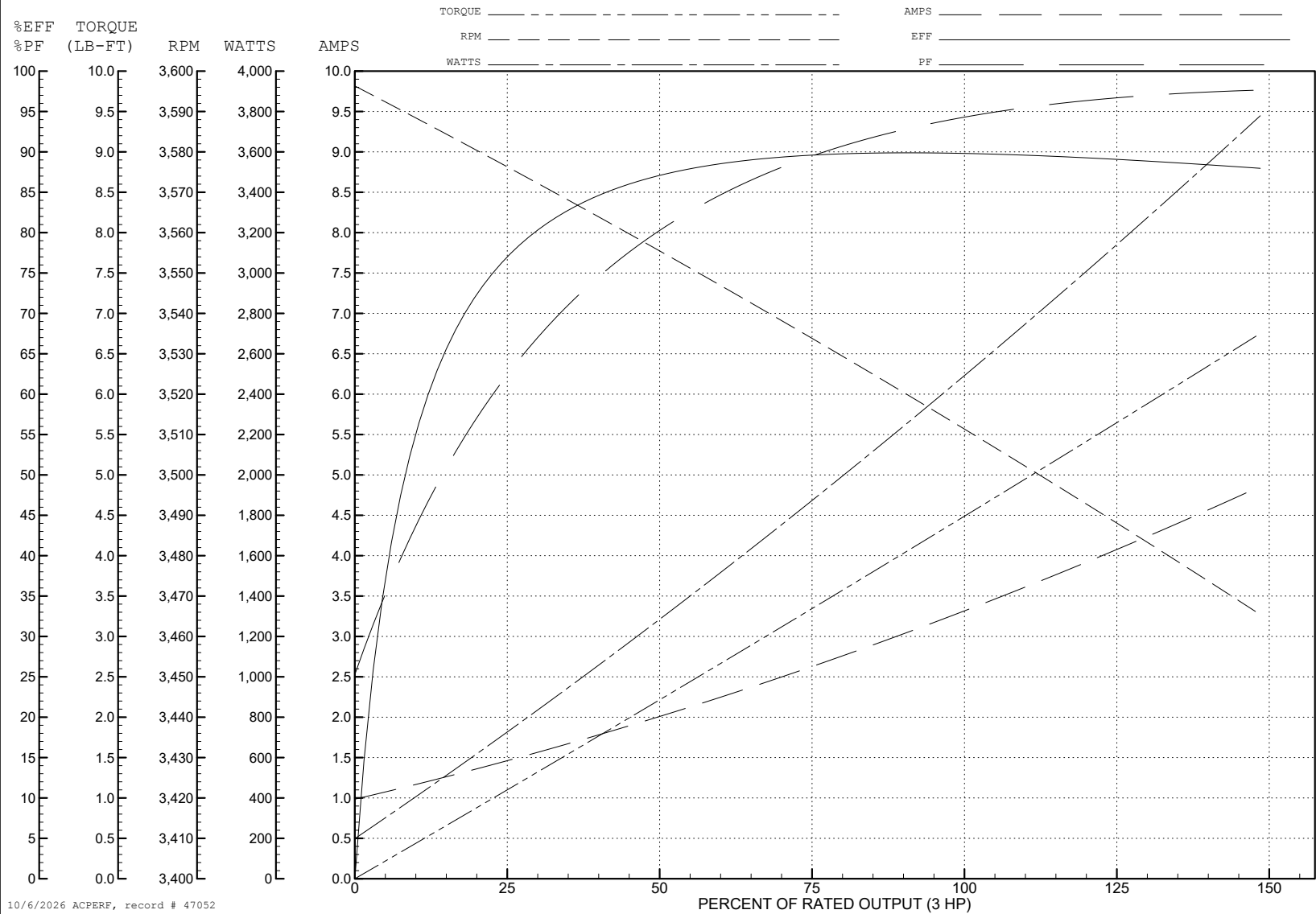
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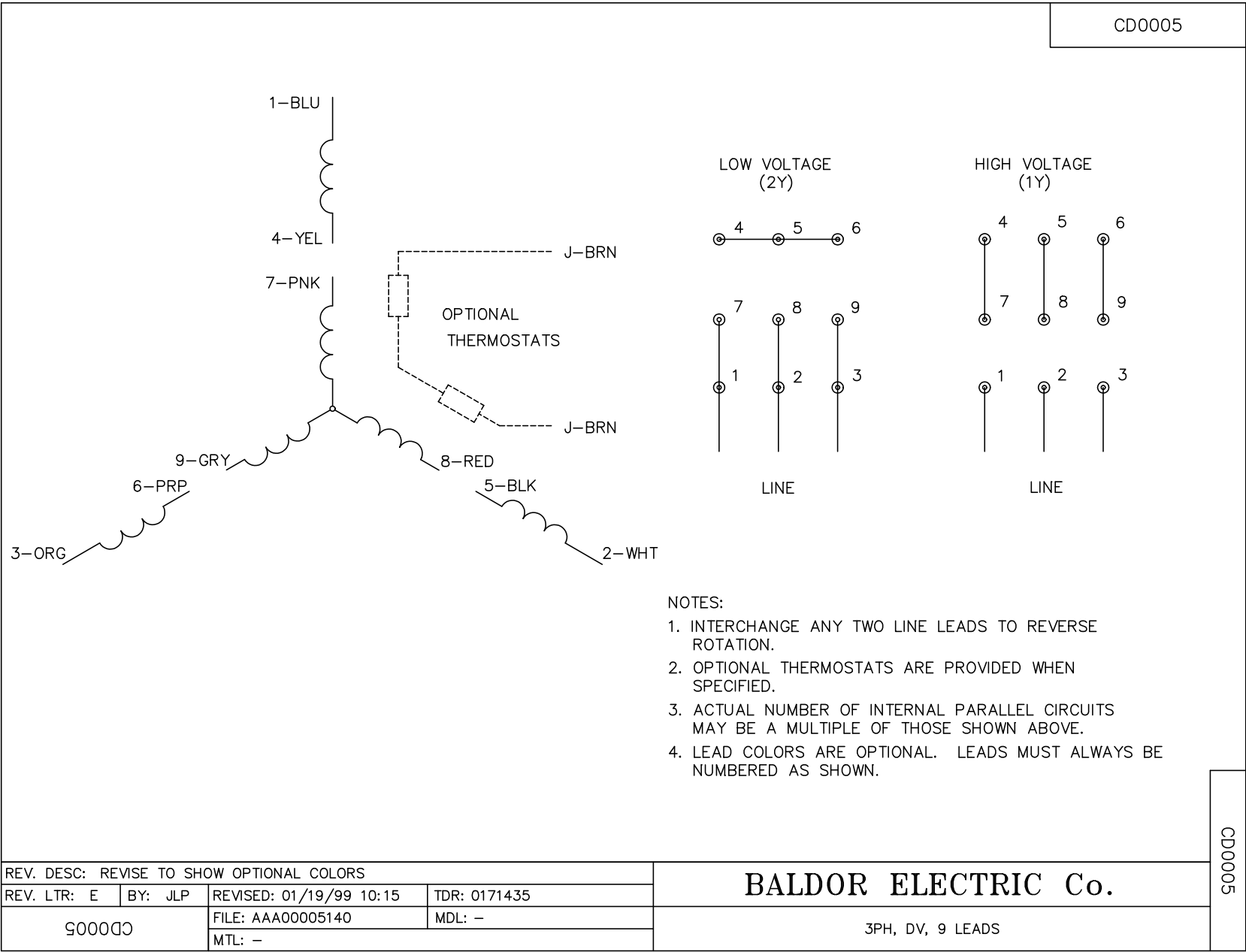
WINDING # 06WGW036

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3500 RPM 460 V 0628M

TORQUES (LB-FT): PO=23.3 PU=15.2 LR=16 LRA=32





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