

ABB BALDOR RELIANCE III

Customer information packet

VLECP3660T

3HP, 3500RPM, 3PH, 60HZ, 182LP, 0628M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	182LP
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	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CCSA US CSA EEV UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
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	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	G
Type	AC
Mech. spec.	06F063
Base	
Status	PRD/A
Elec. spec.	06WGW036
Layout	06LYF063
Eff. date	03-10-2021
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	07-09-2015

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	Vertical Lifting Lugs
Locked Bearing Indicator	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	22.18 IN
Power Factor	92
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Thrust
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
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	No 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

NP3258									
CAT.NO.	VLECP3660T								
SPEC.	06F063W036G1								
HP	3 TE								
VOLTS	230/460								
AMP	6.8/3.4								
RPM	3500								
FRAME	182LP	HZ	60		PH	3			
SER.F.	1.15	CODE	L	DES	B	CL	F		
RATING	40C AMB-CONT								
SN									
DE	QJ307	ODE	6206						
NEMA-NOM-EFF	88.5	PF	92						
G.MIN.EFF	86.5	CC	010A						
T. CODE	T3C	T=	160						

NP3261			
SPEC.	06F063W036G1		
D.E. BRG.	35BZ03X00X		
O.D.E. BRG.	30BC02X30X		
GREASE	POLYREX EM		
RPM MAX	5400	MAX. KVAR	
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	N/A	HTR-AMPS	N/A
HTR-WATTS	N/A	MAX. SPACE HEATER TEMP.	N/A

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

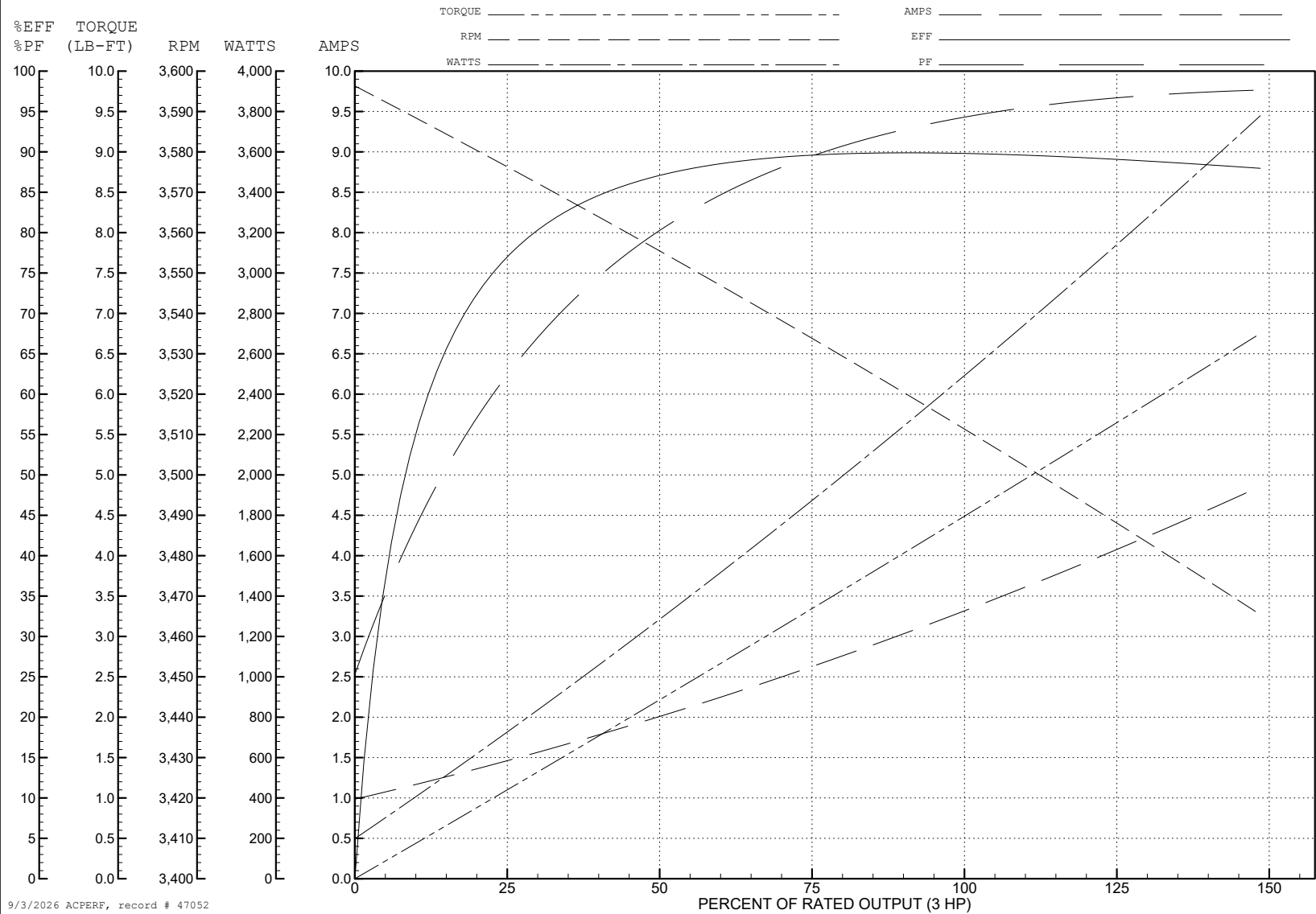
ABB Motors and Mechanical Inc.

WINDING # 06WGW036

Typical performance - not guaranteed values.

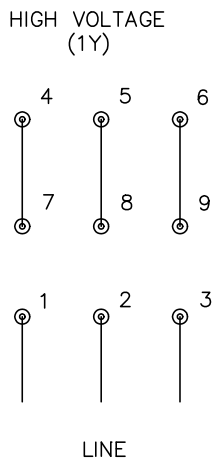
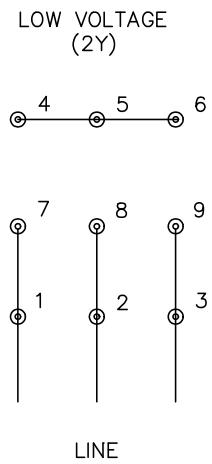
3 HP 3 PH 60 HZ 3500 RPM 460 V 0628M

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





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
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BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005