

ABB BALDOR RELIANCE III

Customer information packet

VM3661T-9

3HP, 1755RPM, 3PH, 60HZ, 182TC, 0629M, TEFC, F1

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ 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	N
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.400 A @ 460.0 V 8.800 A @ 230.0 V 9.600 A @ 208.0 V
Design Code	C
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	87.5 %
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	B
Type	AC
Mech. spec.	06K409
Base	
Status	NLA/A
Elec. spec.	06WGW978
Layout	06LYK409
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	07-25-2014

High Voltage Full Load Amps	4.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0629M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.98 IN
Power Factor	72
Product Family	WP Below Decks Marine Duty
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	1755 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

NP1261L									
CAT.NO.	VM3661T-9								
SPEC.	06K409W978H1								
HP	3								
VOLTS	208-230/460								
AMP	9.6-8.8/4.4								
RPM	1755								
FRAME	182TC		HZ	60		PH	3		
SER.F.	1.15	CODE	J	DES	C	CLASS	F		
NEMA-NOM-EFF	87.5	PF	72						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	ODE	6205						
ENCL	TEFC	SN							

AC Induction Motor Performance Data

Record # 28978

Typical performance - not guaranteed values

Winding: 06WGW978-R001			Type: 0629M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		8.89 LB-FT		
Volts		208-230/460	Start Configuration		direct on line		
Full Load Amps		9.6-8.8/4.4	Breakdown Torque		29.1 LB-FT		
R.P.M.		1755	Pull-up Torque		24.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		32 LB-FT	
NEMA Design Code		C	KVA Code	J	Starting Current		28 A
Service Factor (S.F.)		1.15	No-load Current		2.61 A		
NEMA Nom. Eff.		87.5	Power Factor	72	Line-line Res. @ 25°C		3.69 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		39°C
S.F. Amps			Temp. Rise @ S.F. Load		47°C		
			Locked-rotor Power Factor		48		
			Rotor inertia		0.27 LB-FT2		

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	52	64	72	77	79	75
Efficiency	77.7	85.8	87.8	88.1	87.7	86.2	87.9
Speed	1791.5	1780.3	1770.7	1757.9	1744.6	1726.2	1750
Line amperes	2.76	3.15	3.71	4.41	5.23	6.4	4.9

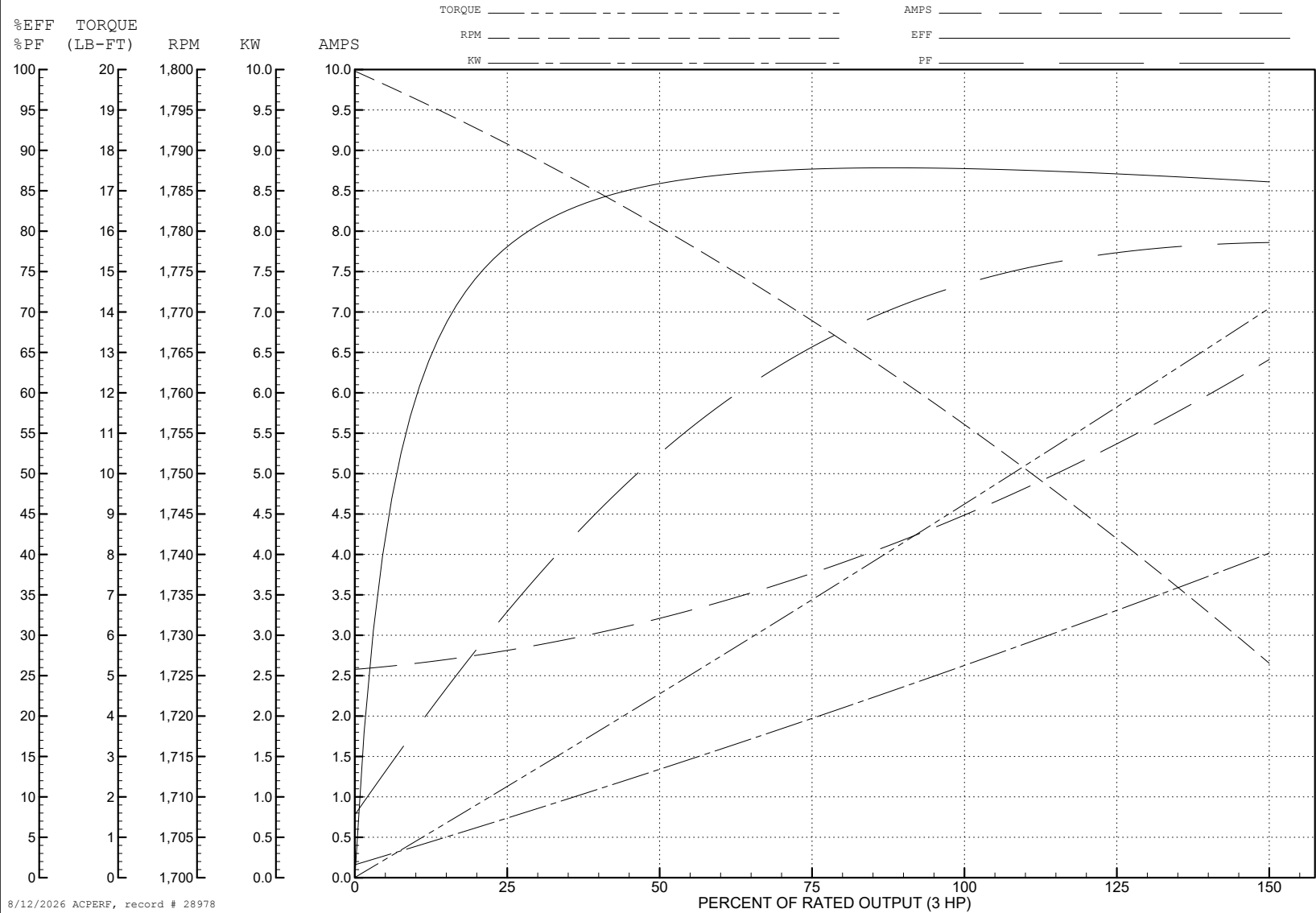
ABB Motors and Mechanical Inc.

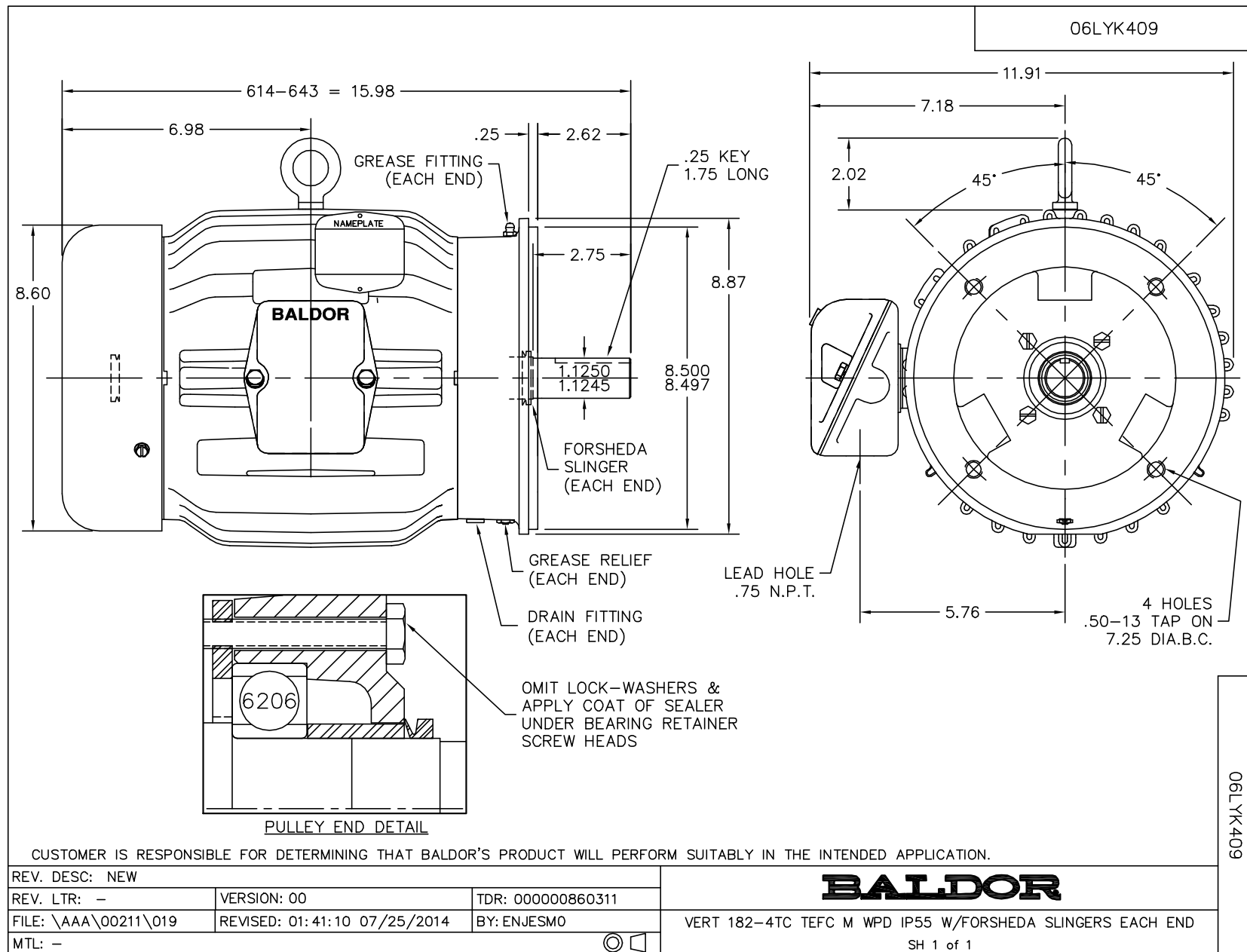
WINDING # 06WGW978

Typical performance - not guaranteed values.

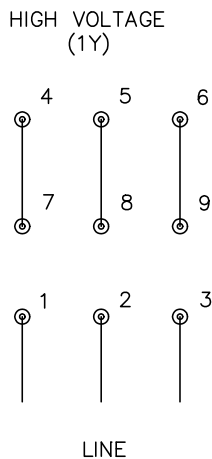
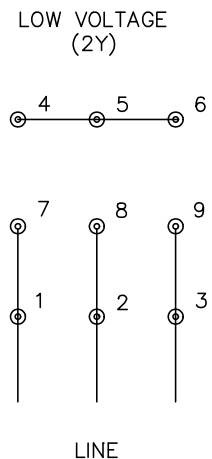
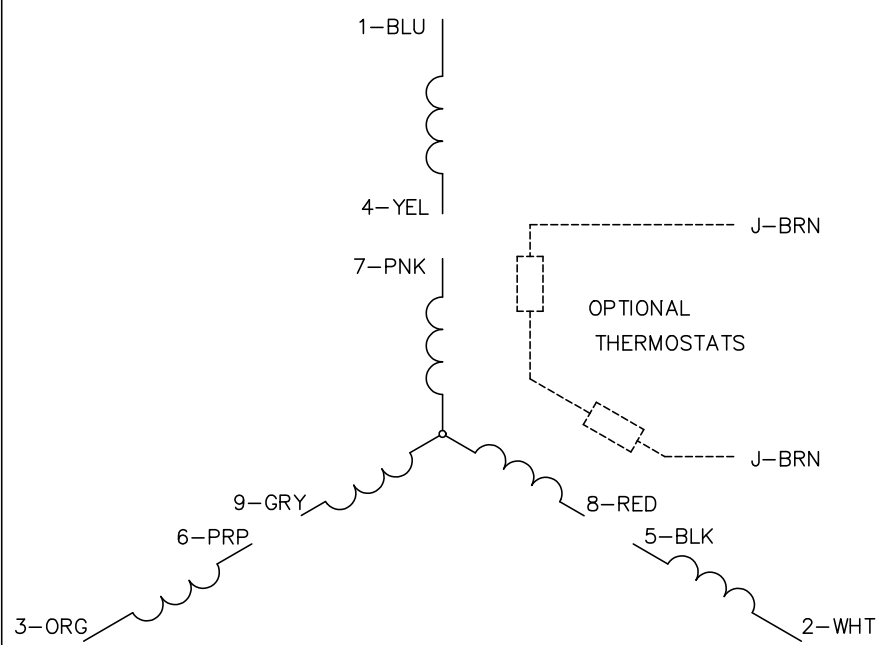
3 HP 3 PH 60 HZ 1755 RPM 460 V 0629M

TORQUES (LB-FT): PO=29.1 PU=24.4 LR=32 LRA=28





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
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005