ABB BALDOR RELIANCE

Customer information packet

VM3661T-9

3HP, 1755RPM, 3PH, 60HZ, 182TC, 0629M, TEFC, F1
Class -
Division - Not Applicable

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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			
Rated Output (HP)			3
Volts			208-230/460
Full Load Amps			9.6-8.8/4.4
R.P.M.			1755
Hz	60	**Phase**	3
NEMA Design Code	C	**KVA Code**	J
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	87.5	**Power Factor**	72
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	8.89 LB-FT
Start Configuration	direct on line
Breakdown Torque	29.1 LB-FT
Pull-up Torque	24.4 LB-FT
Locked-rotor Torque	32 LB-FT
Starting Current	28 A
No-load Current	2.61 A
Line-line Res. @ 25ºC	3.69 Ω
Temp. Rise @ Rated Load	39°C
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

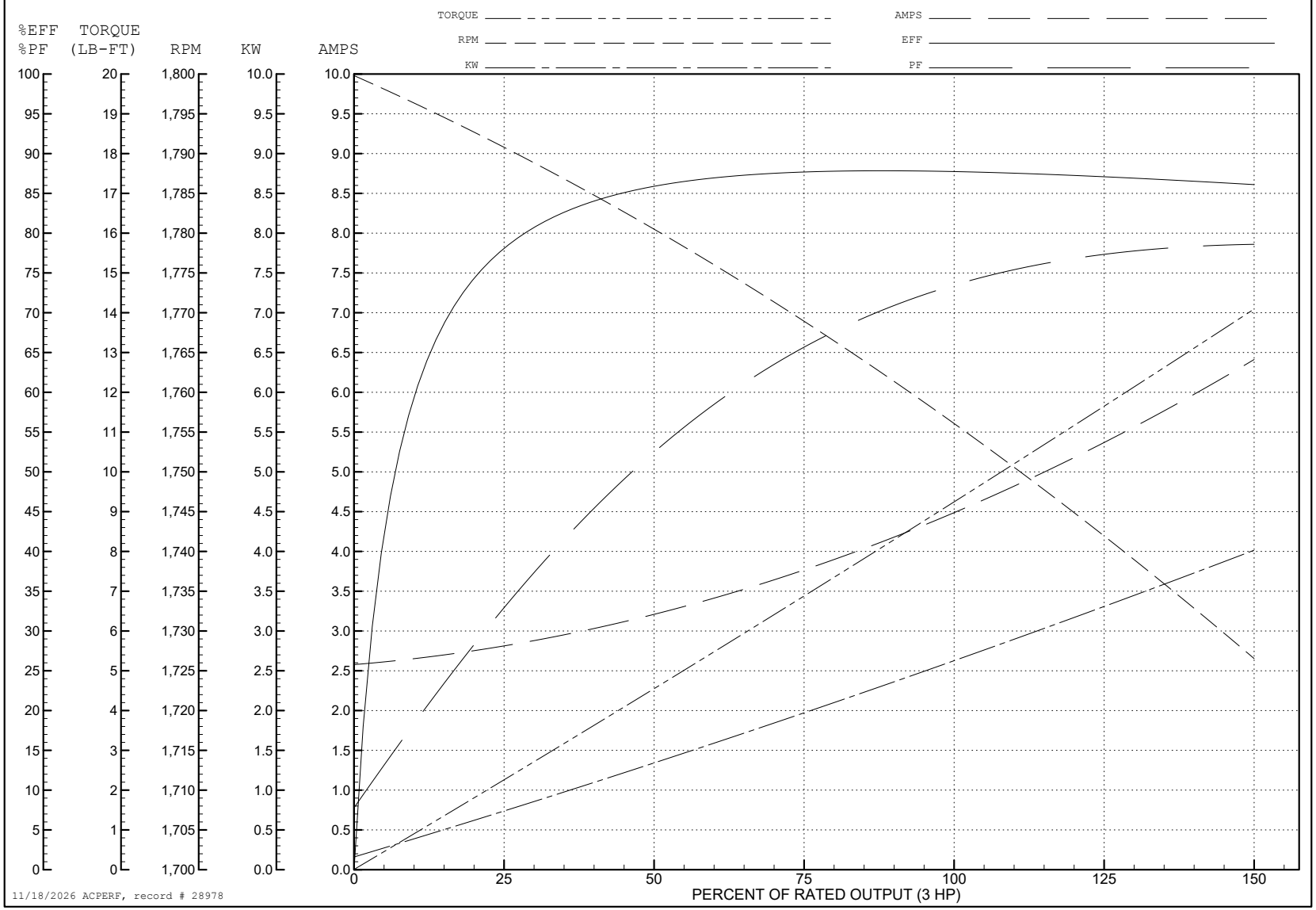
ABB Motors and Mechanical Inc.

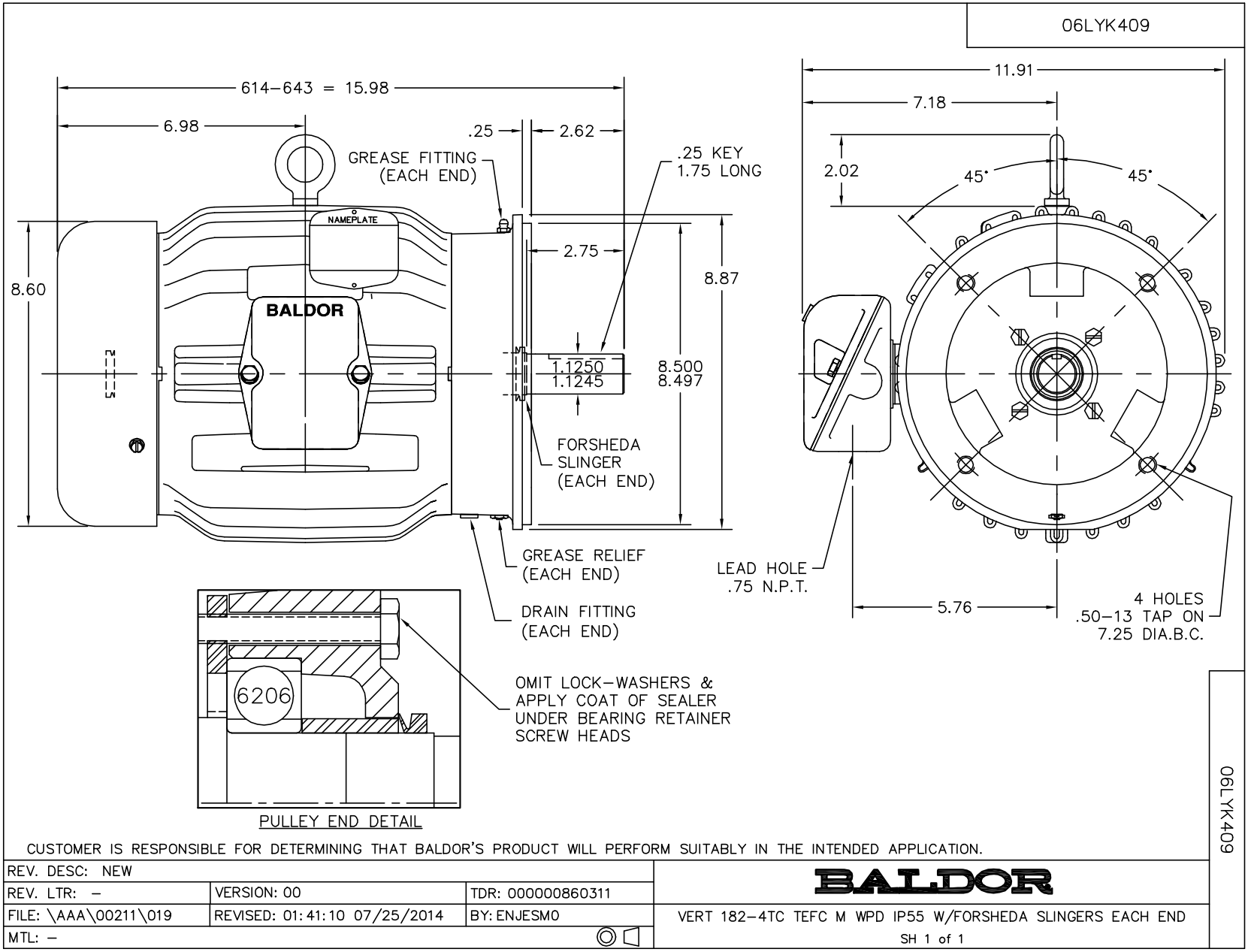
WINDING # 06WGW978

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

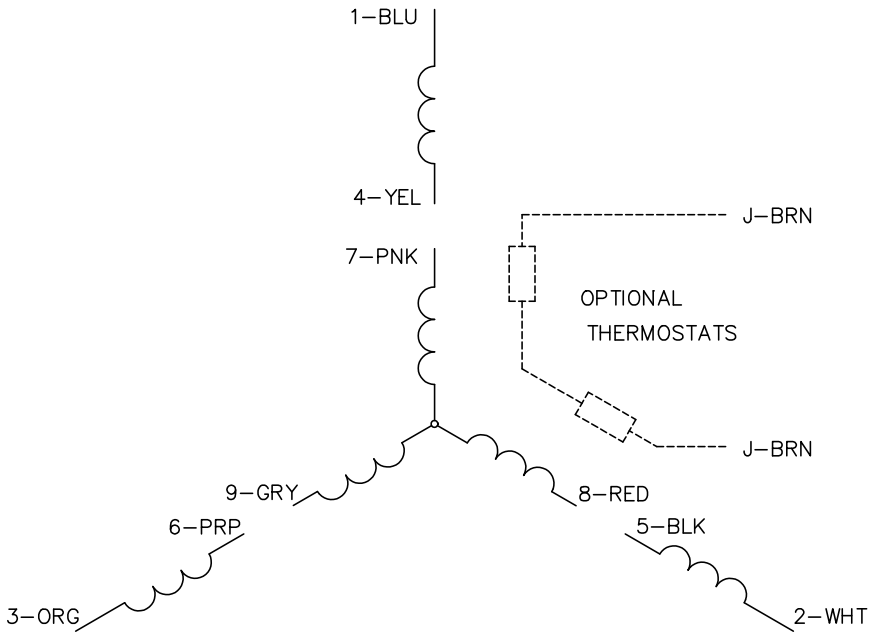
Typical performance - not guaranteed values.

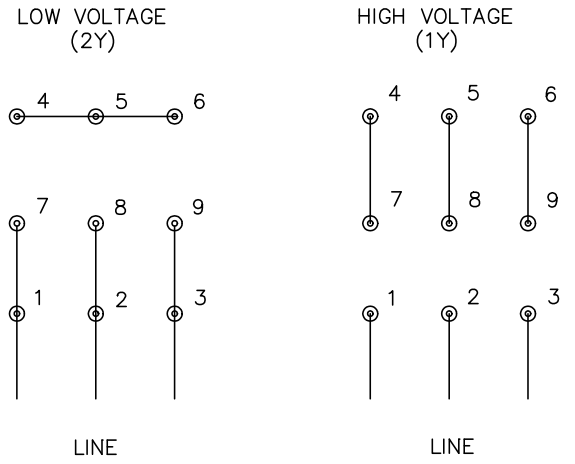
TORQUES(LB-FT): PO=29.1 PU=24.4 LR=32 LRA=28




06LYK409
614–643 = 15.98
6.98
.25
2.62
GREASE FITTING (EACH END)
.25 KEY 1.75 LONG
NAMEPLATE
BALDOR
8.60
2.75
8.87
1.1250
1.1245
8.500
8.497
FORSHEDA SLINGER (EACH END)
GREASE RELIEF (EACH END)
DRAIN FITTING (EACH END)
11.91
7.18
2.02
45°
45°
LEAD HOLE .75 N.P.T.
5.76
4 HOLES .50–13 TAP ON 7.25 DIA.B.C.
6206
OMIT LOCK–WASHERS & APPLY COAT OF SEALER UNDER BEARING RETAINER SCREW HEADS
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: NEW
REV. LTR: –
VERSION: 00
TDR: 000000860311
FILE: \AAA\00211\019
REVISED: 01:41:10 07/25/2014
BY: ENJESM0
MTL: –
BALDOR
VERT 182–4TC TEFC M WPD IP55 W/FORSHEDA SLINGERS EACH END
SH 1 of 1
06LYK409

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS